Air Quality and Greenhouse Gas Appendix

Air Quality and Greenhouse Gas Background and Modeling Data

AIR QUALITY

Air Quality Regulatory Setting

The proposed project has the potential to release gaseous emissions of criteria pollutants and dust into the ambient air; therefore, it falls under the ambient air quality standards promulgated at the local, state, and federal levels. The project site is in the SoCAB and is subject to the rules and regulations imposed by the South Coast Air Quality Management District (South Coast AQMD). However, South Coast AQMD reports to California Air Resources board (CARB), and all criteria emissions are also governed by the California and national Ambient Air Quality Standards (AAQS). Federal, state, regional, and local laws, regulations, plans, or guidelines that are potentially applicable to the proposed project are summarized below.

AMBIENT AIR QUALITY STANDARDS

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National AAQS and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act (CCAA), signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National AAQS and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health-based AAQS for seven air pollutants. As shown in Table 1, *Ambient Air Quality Standards for Criteria Pollutants*, these pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), and lead (Pb). In addition, the state has set standards for

sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Ozone (O_3)[3]	1 hour	0.09 ppm	*	Motor vehicles, paints, coatings, and solvents.
	8 hours	0.070 ppm	0.070 ppm	
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Internal combustion engines, primarily gasoline-powered motor vehicles.
	8 hours	9.0 ppm	9 ppm	
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Motor vehicles, petroleum-refining operations, industrial sources, aircraft, ships, and railroads.
	1 hour	0.18 ppm	0.100 ppm	
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	*	0.030 ppm	Fuel combustion, chemical plants, sulfur recovery plants, and metal processing.
	1 hour	0.25 ppm	0.075 ppm	
	24 hours	0.04 ppm	0.14 ppm	
Respirable Coarse Particulate Matter (PM_{10})	Annual Arithmetic Mean	20 µg/m^3	*	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	50 µg/m^3	150 µg/m^3	
Respirable Fine Particulate Matter ($PM_{2.5}$)[4,6]	Annual Arithmetic Mean	12 µg/m^3	9 µg/m^3	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	*	35 µg/m^3	
Lead (Pb)	30-Day Average	1.5 µg/m^3	*	Present source: lead smelters, battery manufacturing & recycling facilities. Past source: combustion of leaded gasoline.
	Calendar Quarter	*	1.5 µg/m^3	
	Rolling 3-Month Average	*	0.15 µg/m^3	
Sulfates (SO_4)[5]	24 hours	25 µg/m^3	*	Industrial processes.
Visibility Reducing Particles	8 hours	ExCo =0.23/km visibility of 10≥ miles	No Federal Standard	Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Hydrogen Sulfide	1 hour	0.03 ppm	No Federal Standard	Hydrogen sulfide (H_2S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation.
Vinyl Chloride	24 hours	0.01 ppm	No Federal Standard	Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Source: CARB 2024a.
Notes: ppm: parts per million; µg/m^3: micrograms per cubic meter
* Standard has not been established for this pollutant/duration by this entity.
1 California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2 National standards (other than O_3, PM, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
3 On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
4 On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
5 On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. The 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
6 On February 7, 2024, the national annual $PM_{2.5}$ standard was lowered from 12 µg/m^3 to 9 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary), secondary annual $PM_{2.5}$ standard, and PM_{10} standards (primary and secondary) were retained

California has also adopted a host of other regulations that reduce criteria pollutant emissions, including:

- AB 1493: Pavley Fuel Efficiency Standards
- Title 20 California Code of Regulations (CCR): Appliance Energy Efficiency Standards
- Title 24, Part 6, CCR: Building and Energy Efficiency Standards
- Title 24, Part 11, CCR: Green Building Standards Code

AIR POLLUTANTS OF CONCERN

Criteria Air Pollutants

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state law. Air pollutants are categorized as primary or secondary pollutants. Primary air pollutants are those that are emitted directly from sources and include CO, VOC, NO_2, SO_X, PM_{10}, $PM_{2.5}$, and Pb. Of these, CO, SO_2, NO_2, PM_{10}, and $PM_{2.5}$ are "criteria air pollutants," which means that ambient air quality standards (AAQS) have been established for them. VOC and oxides of nitrogen (NO_X) are air pollutant precursors that form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. Ozone

(O_3) and NO_2 are the principal secondary pollutants. A description of each of the primary and secondary criteria air pollutants and their known health effects is presented below.

Carbon Monoxide (CO) is a colorless, odorless, toxic gas produced by incomplete combustion of carbon substances, such as gasoline or diesel fuel. CO is a primary criteria air pollutant. CO concentrations tend to be the highest during winter mornings with little to no wind, when surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion, engines and motor vehicles operating at slow speeds are the primary source of CO in the SoCAB. The highest ambient CO concentrations are generally found near traffic-congested corridors and intersections. The primary adverse health effect associated with CO is interference with normal oxygen transfer to the blood, which may result in tissue oxygen deprivation (South Coast AQMD 2005; US EPA 2025a). The SoCAB is designated as being in attainment under the California AAQS and attainment (serious maintenance) under the National AAQS (CARB 2025a).

Volatile Organic Compounds (VOC) are composed primarily of hydrogen and carbon atoms. Internal combustion associated with motor vehicle usage is the major source of VOCs. Other sources include evaporative emissions from paints and solvents, asphalt paving, and household consumer products such as aerosols (South Coast AQMD 2005). There are no AAQS for VOCs. However, because they contribute to the formation of O_3, South Coast AQMD has established a significance threshold (South Coast AQMD 2023). The health effects for ozone are described later in this section.

Nitrogen Oxides (NO_X) are a by-product of fuel combustion and contribute to the formation of ground-level O_3, PM_{10}, and $PM_{2.5}$. The two major forms of NO_X are nitric oxide (NO) and nitrogen dioxide (NO_2). NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure. The principal form of NO_X produced by combustion is NO, but NO reacts quickly with oxygen to form NO_2, creating the mixture of NO and NO_2 commonly called NO_X. NO_2 is an acute irritant and more injurious than NO in equal concentrations. At atmospheric concentrations, however, NO_2 is only potentially irritating. NO_2 absorbs blue light; the result is a brownish-red cast to the atmosphere and reduced visibility. NO_2 exposure concentrations near roadways are of particular concern for susceptible individuals, including asthmatics, children, and the elderly. Current scientific evidence links short-term NO_2 exposures, ranging from 30 minutes to 24 hours, with adverse respiratory effects, including airway inflammation in healthy people and increased respiratory symptoms in people with asthma. Also, studies show a connection between elevated short-term NO_2 concentrations and increased visits to emergency departments and hospital admissions for respiratory issues, especially asthma (South Coast AQMD 2005; USEPA 2025a). The SoCAB is designated in attainment (maintenance) under the National AAQS and attainment under the California AAQS (CARB 2025a).[1]

Sulfur Dioxide (SO_2) is a colorless, pungent, irritating gas formed by the combustion of sulfurous fossil fuels. It enters the atmosphere as a result of burning high-sulfur-content fuel oils and coal and chemical processes at plants and refineries. Gasoline and natural gas have very low sulfur content and do not release

[1] The CA-60 near-road portion of San Bernardino, Riverside and Los Angeles Counties has recently been redesignated as an attainment area based on data collected between 2018 and 2020 (South Coast AQMD 2022).

significant quantities of SO_2. When sulfur dioxide forms sulfates (SO_4) in the atmosphere, together these pollutants are referred to as sulfur oxides (SO_X). Thus, SO_2 is both a primary and secondary criteria air pollutant. At sufficiently high concentrations, SO_2 may irritate the upper respiratory tract. Current scientific evidence links short-term exposures to SO_2, ranging from 5 minutes to 24 hours, with an array of adverse respiratory effects, including bronchoconstriction and increased asthma symptoms. These effects are particularly adverse for asthmatics at elevated ventilation rates (e.g., while exercising or playing) at lower concentrations and when combined with particulates, SO_2 may do greater harm by injuring lung tissue. Studies also show a connection between short-term exposure and increased visits to emergency facilities and hospital admissions for respiratory illnesses, particularly in at-risk populations such as children, the elderly, and asthmatics (South Coast AQMD 2005; USEPA 2025a). The SoCAB is designated as attainment under the California and National AAQS (CARB 2025a).

Suspended Particulate Matter (PM_{10} and $PM_{2.5}$) consists of finely divided solids or liquids such as soot, dust, aerosols, fumes, and mists. Two forms of fine particulates are now recognized and regulated. Inhalable coarse particles, or PM_{10}, include particulate matter with an aerodynamic diameter of 10 microns or less (i.e., ≤0.01 millimeter). Inhalable fine particles, or $PM_{2.5}$, have an aerodynamic diameter of 2.5 microns or less (i.e., ≤0.002.5 millimeter). Particulate discharge into the atmosphere results primarily from industrial, agricultural, construction, and transportation activities. Both PM_{10} and $PM_{2.5}$ may adversely affect the human respiratory system, especially in people who are naturally sensitive or susceptible to breathing problems. The EPA's scientific review concluded that $PM_{2.5}$, which penetrates deeply into the lungs, is more likely than PM_{10} to contribute to health effects and at far lower concentrations. These health effects include premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms (e.g., irritation of the airways, coughing, or difficulty breathing) (South Coast AQMD 2005). There has been emerging evidence that ultrafine particulates, which are even smaller particulates with an aerodynamic diameter of <0.1 microns or less (i.e., ≤0.0001 millimeter) have human health implications because their toxic components may initiate or facilitate biological processes that may lead to adverse effects to the heart, lungs, and other organs (South Coast AQMD 2013). However, the EPA and the California Air Resources Board (CARB) have not adopted AAQS to regulate these particulates. Diesel particulate matter is classified by CARB as a carcinogen (CARB 2025b). Particulate matter can also cause environmental effects such as visibility impairment,[2] environmental damage,[3] and aesthetic damage[4] (South Coast AQMD 2005; USEPA 2025a). The SoCAB is a nonattainment area for $PM_{2.5}$ under California and National AAQS and a nonattainment area for PM_{10} under the California AAQS (CARB 2025a).[5]

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2 $PM_{2.5}$ is the main cause of reduced visibility (haze) in parts of the United States.

3 Particulate matter can be carried over long distances by wind and then settle on ground or water, making lakes and streams acidic; changing the nutrient balance in coastal waters and large river basins; depleting the nutrients in soil; damaging sensitive forests and farm crops; and affecting the diversity of ecosystems.

4 Particulate matter can stain and damage stone and other materials, including culturally important objects such as statues and monuments.

5 CARB approved the South Coast AQMD's request to redesignate the SoCAB from serious nonattainment for PM_{10} to attainment for PM_{10} under the National AAQS on March 25, 2010, because the SoCAB did not violate federal 24-hour PM_{10}

Ozone (O_3) is a key ingredient of "smog" and is a gas that is formed when VOCs and NO_X, both by-products of internal combustion engine exhaust, undergo photochemical reactions in sunlight. O_3 is a secondary criteria air pollutant. O_3 concentrations are generally highest during the summer months when direct sunlight, light winds, and warm temperatures create favorable conditions for its formation. O_3 poses a health threat to those who already suffer from respiratory diseases as well as to healthy people. Breathing O_3 can trigger a variety of health problems, including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground-level O_3 also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. O_3 also affects sensitive vegetation and ecosystems, including forests, parks, wildlife refuges, and wilderness areas. In particular, O_3 harms sensitive vegetation during the growing season (South Coast AQMD 2005; USEPA 2025a). The SoCAB is designated extreme nonattainment under the California AAQS (1-hour and 8-hour) and National AAQS (8-hour) (CARB 2025a).

Lead (Pb) is a metal found naturally in the environment as well as in manufactured products. Once taken into the body, lead distributes throughout the body in the blood and accumulates in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. Lead exposure also affects the oxygen-carrying capacity of the blood. The effects of lead most commonly encountered in current populations are neurological effects in children and cardiovascular effects in adults (e.g., high blood pressure and heart disease). Infants and young children are especially sensitive to even low levels of lead, which may contribute to behavioral problems, learning deficits, and lowered IQ (South Coast AQMD 2005; USEPA 2018). The major sources of lead emissions have historically been mobile and industrial sources. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector dramatically declined by 95 percent between 1980 and 1999, and levels of lead in the air decreased by 94 percent between 1980 and 1999. Today, the highest levels of lead in air are usually found near lead smelters. The major sources of lead emissions today are ore and metals processing and piston-engine aircraft operating on leaded aviation gasoline. However, in 2008 the EPA and CARB adopted more strict lead standards, and special monitoring sites immediately downwind of lead sources recorded very localized violations of the new state and federal standards.[6] As a result of these violations, the Los Angeles County portion of the SoCAB is designated as nonattainment under the National AAQS for lead (South Coast AQMD 2012; CARB 2025a). However, lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011 (South Coast AQMD 2012). CARB's State Implementation Plan (SIP) revision was submitted to the EPA for approval. Because emissions of lead are found only in projects that are permitted by South Coast AQMD, lead is not a pollutant of concern for the proposed project.

standards from 2004 to 2007. The EPA approved the State of California's request to redesignate the South Coast PM_{10} nonattainment area to attainment of the PM_{10} National AAQS, effective on July 26, 2013.

6 Source-oriented monitors record concentrations of lead at lead-related industrial facilities in the SoCAB, which include Exide Technologies in the City of Commerce; Quemetco, Inc., in the City of Industry; Trojan Battery Company in Santa Fe Springs; and Exide Technologies in Vernon. Monitoring conducted between 2004 through 2007 showed that the Trojan Battery Company and Exide Technologies exceed the federal standards (South Coast AQMD 2012).

Table 2, *Criteria Air Pollutant Health Effects Summary*, summarizes the potential health effects associated with the criteria air pollutants.

Table 2 Criteria Air Pollutant Health Effects Summary

Pollutant	Health Effects	Examples of Sources
Carbon Monoxide (CO)	• Chest pain in heart patients • Headaches, nausea • Reduced mental alertness • Death at very high levels	Any source that burns fuel such as cars, trucks, construction and farming equipment, and residential heaters and stoves
Ozone (O_3)	• Cough, chest tightness • Difficulty taking a deep breath • Worsened asthma symptoms • Lung inflammation	Atmospheric reaction of organic gases with nitrogen oxides in sunlight
Nitrogen Dioxide (NO_2)	• Increased response to allergens • Aggravation of respiratory illness	Same as carbon monoxide sources
Particulate Matter (PM_{10} and $PM_{2.5}$)	• Hospitalizations for worsened heart diseases • Emergency room visits for asthma • Premature death	Cars and trucks (particularly diesels) Fireplaces and woodstoves Windblown dust from overlays, agriculture, and construction
Sulfur Dioxide (SO_2)	• Aggravation of respiratory disease (e.g., asthma and emphysema) • Reduced lung function	Combustion of sulfur-containing fossil fuels, smelting of sulfur-bearing metal ores, and industrial processes
Lead (Pb)	• Behavioral and learning disabilities in children • Nervous system impairment	Contaminated soil

Source: CARB 2025c.

Toxic Air Contaminants

The public's exposure to air pollutants classified as toxic air contaminants (TACs) is a significant environmental health issue in California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant (HAP) pursuant to Section 112(b) of the federal Clean Air Act (42 United States Code §7412[b]) is a toxic air contaminant. Under state law, the California Environmental Protection Agency (Cal/EPA), acting through CARB, is authorized to identify a substance as a TAC if it determines that the substance is an air pollutant that may cause or contribute to an increase in mortality or to an increase in serious illness, or may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a

substance (i.e., a point below which there is no toxic effect), the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology to minimize emissions. To date, CARB has established formal control measures for 11 TACs, all of which are identified as having no safe threshold.

Air toxics from stationary sources are also regulated in California under the Air Toxics "Hot Spot" Information and Assessment Act of 1987. Under AB 2588, toxic air contaminant emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

By the last update to the TAC list in December 1999, CARB had designated 244 compounds as TACs (CARB 1999). Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines.

Diesel Particulate Matter

In 1998, CARB identified particulate emissions from diesel-fueled engines (diesel PM) as a TAC. Previously, the individual chemical compounds in diesel exhaust were considered TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

CARB has promulgated the following specific rules to limit TAC emissions:

- 13 CCR Chapter 10, Section 2485, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling
- 13 CCR Chapter 10, Section 2480, Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools
- 13 CCR Section 2477 and Article 8, Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets and Facilities Where TRUs Operate

Community Risk

In addition, to reduce exposure to TACs, CARB developed and approved the *Air Quality and Land Use Handbook: A Community Health Perspective* (2005) to provide guidance regarding the siting of sensitive land uses in the vicinity of freeways, distribution centers, rail yards, ports, refineries, chrome-plating facilities, dry cleaners, and gasoline-dispensing facilities. This guidance document was developed to assess compatibility and associated health risks when placing sensitive receptors near existing pollution sources. CARB's recommendations on the siting of new sensitive land uses were based on a compilation of recent studies that evaluated data on the adverse health effects from proximity to air pollution sources. The key observation in

these studies is that proximity to air pollution sources substantially increases exposure and the potential for adverse health effects. There are three carcinogenic toxic air contaminants that constitute the majority of the known health risks from motor vehicle traffic, DPM from trucks, and benzene and 1,3-butadiene from passenger vehicles. CARB recommendations are based on data that show that localized air pollution exposures can be reduced by as much as 80 percent by following CARB minimum distance separations.

AIR QUALITY MANAGEMENT PLANNING

The South Coast AQMD is the agency responsible for improving air quality in the SoCAB and ensuring that the National and California AAQS are attained and maintained. South Coast AQMD is responsible for preparing the air quality management plan (AQMP) for the SoCAB in coordination with the Southern California Association of Governments (SCAG). Since 1979, a number of AQMPs have been prepared.

2022 AQMP

South Coast AQMD adopted the 2022 AQMP on December 2, 2022, which serves as an update to the 2017 AQMP. On October 1, 2015, the EPA strengthened the National AAQS for ground-level ozone, lowering the primary and secondary ozone standard levels to 70 parts per billion (ppb) (2015 Ozone National AAQS.). The SoCAB is currently classified as an "extreme" nonattainment for the 2015 Ozone National AAQS. Meeting the 2015 federal ozone standard requires reducing NO_x emissions, the key pollutant that creates ozone, by 67 percent more than is required by adopted rules and regulations in 2037. The only way to achieve the required NO_x reductions is through extensive use of zero emission (ZE) technologies across all stationary and mobile sources. South Coast AQMD's primary authority is over stationary sources which account for approximately 20 percent of NO_x emissions. The overwhelming majority of NO_x emissions are from heavy-duty trucks, ships and other State and federally regulated mobile sources that are mostly beyond the South Coast AQMD's control. The region will not meet the standard absent significant federal action. In addition to federal action, the 2022 AQMP requires substantial reliance on future deployment of advanced technologies to meet the standard. The control strategy for the 2022 AQMP includes aggressive new regulations and the development of incentive programs to support early deployment of advanced technologies. The two key areas for incentive programs are (1) promoting widespread deployment of available ZE and low-NO_x technologies and (2) developing new ZE and ultra-low NO_x technologies for use in cases where the technology is not currently available. South Coast AQMD is prioritizing distribution of incentive funding in Environmental Justice areas and seeking opportunities to focus benefits on the most disadvantaged communities (South Coast AQMD 2022).

Lead State Implementation Plan

In 2008, EPA designated the Los Angeles County portion of the SoCAB nonattainment under the federal lead (Pb) classification due to the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in Vernon and the City of Industry exceeding the new standard. The rest of the SoCAB, outside the Los Angeles County nonattainment area remains in attainment of the new standard. On May 24, 2012, CARB approved the SIP revision for the federal lead standard, which the EPA revised in 2008. Lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011. The SIP revision was submitted to EPA for approval.

South Coast AQMD PM2.5 Redesignation Request and Maintenance Plan

In 1997, the EPA adopted the 24-hour fine $PM_{2.5}$ standard of 65 micrograms per cubic meter ($\mu g/m^3$). In 2006, this standard was lowered to a more health-protective level of 35 $\mu g/m^3$. The SoCAB is designated nonattainment for both the 65 and 35 $\mu g/m^3$ 24-hour $PM_{2.5}$ standards (24-hour $PM_{2.5}$ standards). In 2020, monitored data demonstrated that the SoCAB attained both 24-hour $PM_{2.5}$ standards. The South Coast AQMD has developed the 2021 Redesignation Request and Maintenance Plan for the 1997 and 2006 24-hour $PM_{2.5}$ Standards demonstrating that the SoCAB has met the requirements to be redesignated to attainment for the 24-hour $PM_{2.5}$ standards (South Coast AQMD 2021a).

AB 617, Community Air Protection Program

Assembly Bill (AB) 617 (C. Garcia, Chapter 136, Statutes of 2017) requires local air districts to monitor and implement air pollution control strategies that reduce localized air pollution in communities that bear the greatest burdens. In response to AB 617, CARB has established the Community Air Protection Program.

Air districts are required to host workshops to help identify disadvantaged communities disproportionately affected by poor air quality. Once the criteria for identifying the highest priority locations have been identified and the communities have been selected, new community monitoring systems would be installed to track and monitor community-specific air pollution goals. In 2018 CARB prepared an air monitoring plan (Community Air Protection Blueprint), that evaluates the availability and effectiveness of air monitoring technologies and existing community air monitoring networks. Under AB 617, the Blueprint is required to be updated every five years.

Under AB 617, CARB is also required to prepare a statewide strategy to reduce TACs and criteria pollutants in impacted communities; provide a statewide clearinghouse for best available retrofit control technology; adopt new rules requiring the latest best available retrofit control technology for all criteria pollutants for which an area has not achieved attainment of California AAQS; and provide uniform, statewide reporting of emissions inventories. Air districts are required to adopt a community emissions reduction program to achieve reductions for the communities impacted by air pollution that CARB identifies.

Existing Conditions

CLIMATE/METEOROLOGY

South Coast Air Basin

The project site lies in the South Coast Air Basin (SoCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SoCAB is in a coastal plain with connecting broad valleys and low hills and is bounded by the Pacific Ocean in the southwest quadrant, with high mountains forming the remainder of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. As a result, the climate is mild, tempered by cool sea breezes. This usually mild weather pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds (South Coast AQMD 2005).

Temperature and Precipitation

The annual average temperature varies little throughout the SoCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The lowest average temperature is reported at 47°F in December, and the highest average temperature is 86.1°F in August (USA.Com 2025).

In contrast to a very steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all rain falls from October through April. Summer rainfall is normally restricted to widely scattered thundershowers near the coast, with slightly heavier shower activity in the east and over the mountains. Rainfall averages 14.42 inches per year in the vicinity of the area (USA.Com 2025).

Humidity

Although the SoCAB has a semiarid climate, the air near the earth's surface is typically moist because of the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the SoCAB by offshore winds, the "ocean effect" is dominant. Periods of heavy fog, especially along the coast, are frequent. Low clouds, often referred to as high fog, are a characteristic climatic feature. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the (South Coast AQMD 2005).

Wind

Wind patterns across the south coastal region are characterized by westerly or southwesterly onshore winds during the day and by easterly or northeasterly breezes at night. Wind speed is somewhat greater during the dry summer months than during the rainy winter season.

Between periods of wind, periods of air stagnation may occur, both in the morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During the winter and fall months, surface high-pressure systems over the SoCAB, combined with other meteorological conditions, can result in very strong, downslope Santa Ana winds. These winds normally continue a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east affect the transport and diffusion of pollutants by inhibiting their eastward transport. Air quality in the SoCAB generally ranges from fair to poor and is similar to air quality in most of coastal southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions (South Coast AQMD 2005).

Inversions

In conjunction with the two characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, there are two similarly distinct types of temperature inversions that control the vertical depth through which pollutants are mixed. These are the marine/subsidence inversion and the radiation inversion. The combination of winds and inversions are critical determinants in leading to the highly

degraded air quality in summer and the generally good air quality in the winter in the project area (South Coast AQMD 2005).

AREA DESIGNATIONS

The AQMP provides the framework for air quality basins to achieve attainment of the state and federal ambient air quality standards through the State Implementation Plan (SIP). Areas are classified as attainment or nonattainment areas for particular pollutants, depending on whether they meet ambient air quality standards. Severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme.

- **Unclassified:** a pollutant is designated unclassified if the data are incomplete and do not support a designation of attainment or nonattainment.
- **Attainment:** a pollutant is in attainment if the CAAQS for that pollutant was not violated at any site in the area during a three-year period.
- **Nonattainment:** a pollutant is in nonattainment if there was at least one violation of a state AAQS for that pollutant in the area.
- **Nonattainment/Transitional:** a subcategory of the nonattainment designation. An area is designated nonattainment/transitional to signify that the area is close to attaining the AAQS for that pollutant.

The attainment status for the SoCAB is shown in Table 3, *Attainment Status of Criteria Pollutants in the South Coast Air Basin.*

Table 3 Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
Ozone – 1-hour	Extreme Nonattainment	No Federal Standard
Ozone – 8-hour	Extreme Nonattainment	Extreme Nonattainment
PM_{10}	Serious Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment[1]
CO	Attainment	Attainment
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only)[2]
All others	Attainment/Unclassified	Attainment/Unclassified

Source: CARB 2025a.

[1] The SoCAB is pending a resignation request from nonattainment to attainment for the 24-hour federal $PM_{2.5}$ standards. The 2021 $PM_{2.5}$ Redesignation Request and Maintenance Plan demonstrates that the South Coast meets the requirements of the CAA to allow US EPA to redesignate the SoCAB to attainment for the 65 µg/m^3 and 35 µg/m^3 24-hour $PM_{2.5}$ standards. CARB submitted the 2021 $PM_{2.5}$ Redesignation Request to the US EPA as a revision to the California SIP (CARB 2021).

[2] In 2010, the Los Angeles portion of the SoCAB was designated nonattainment for lead under the new 2008 federal AAQS as a result of large industrial emitters. Remaining areas for lead in the SoCAB are unclassified. However, lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011 (South Coast AQMD 2012). CARB's SIP revision was submitted to the US EPA for approval.

EXISTING AMBIENT AIR QUALITY

Existing levels of ambient air quality and historical trends and projections in the vicinity of the project site are best documented by measurements taken by the South Coast AQMD. The project site is located within Source Receptor Area (SRA) 17: Central Orange County. The air quality monitoring station closest to the proposed project is the Anaheim-Pampas Lane Monitoring Station, which is one of 31 monitoring stations South Coast AQMD operates and maintains within the SoCAB.[7] Data from this station includes O_3, NO_2, PM_{10}, and $PM_{2.5}$. Table 4, *Ambient Air Quality Monitoring Summary*, shows rare violations of the state and federal O_3 standards, state PM_{10} standards, and federal $PM_{2.5}$ standards in the last three years.

Table 4 Ambient Air Quality Monitoring Summary

Pollutant/Standard	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations[1,2]		
	2021	2022	2023
Ozone (O_3)			
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	0	1	0
State & Federal 8-hour ≥ 0.070 ppm (days exceed threshold)	0	1	2
Max. 1-Hour Conc. (ppm)	0.089	0.102	0.089
Max. 8-Hour Conc. (ppm)	0.068	0.076	0.076
Nitrogen Dioxide (NO_2)			
State 1-Hour ≥ 0.18 ppm (days exceed threshold)	0	0	0
Max. 1-Hour Conc. (ppb)	0.0671	0.0530	0.0509
Coarse Particulates (PM_{10})			
State 24-Hour > 50 µg/m^3 (days exceed threshold)	1	1	1
Federal 24-Hour > 150 µg/m^3 (days exceed threshold)	0	0	0
Max. 24-Hour Conc. (µg/m^3)	63.6	67.0	97.8
Fine Particulates ($PM_{2.5}$)			
Federal 24-Hour > 35 µg/m^3 (days exceed threshold)	10	0	1
Max. 24-Hour Conc. (µg/m^3)	54.4	33.1	45.6

Source: CARB 2025d.
Notes: ppm = parts per million; ppb = parts per billion; µg/m^3 = micrograms per cubic meter; * = Data not available
[1] Data for O_3, NO_2, $PM_{2.5}$, and PM_{10} from Anaheim-Pampas Lane Monitoring Station.
[2] Most recent data available as of April 2025.

MULTIPLE AIR TOXICS EXPOSURE STUDY V

The Multiple Air Toxics Exposure Study (MATES) is a monitoring and evaluation study on existing ambient concentrations of TACs and the potential health risks from air toxics in the SoCAB. In April 2021, South Coast AQMD released the latest update to the MATES study, MATES V. The first MATES analysis, MATES I, began in 1986 but was limited because of the technology available at the time. Conducted in 1998, MATES II was the first MATES iteration to include a comprehensive monitoring program, an air toxics emissions

[7] Locations of the SRAs and monitoring stations are shown here: http://www.aqmd.gov/docs/default-source/default-document-library/map-of-monitoring-areas.pdf.

inventory, and a modeling component. MATES III was conducted in 2004 to 2006, with MATES IV following in 2012 to 2013.

MATES V uses measurements taken during 2018 and 2019, with a comprehensive modeling analysis and emissions inventory based on 2018 data. The previous MATES studies quantified the cancer risks based on the inhalation pathway only. MATES V includes information on the chronic noncancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic noncancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazards Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time.

The MATES V study showed that cancer risk in the SoCAB decreased to 454 in a million from 997 in a million in the MATES IV study. Overall, air toxics cancer risk in the SoCAB decreased by 54 percent since 2012 when MATES IV was conducted. MATES V showed the highest risk locations near the Los Angeles International Airport and the Ports of Long Beach and Los Angeles. Diesel particulate matter continues to be the major contributor to air toxics cancer risk (approximately 72 percent of the total cancer risk). Goods movement and transportation corridors have the highest cancer risk. Transportation sources account for 88 percent of carcinogenic air toxics emissions, and the remainder is from stationary sources, which include large industrial operations such as refineries and power plants as well as smaller businesses such as gas stations and chrome-plating facilities. (South Coast AQMD 2021b).

SENSITIVE RECEPTORS

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardio-respiratory diseases.

Residential areas are also considered to be sensitive receptors to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to any pollutants present. Schools are also considered sensitive receptors, as children are present for extended durations and engage in regular outdoor activities. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. In addition, noticeable air pollution can detract from the enjoyment of recreation. Industrial and commercial areas are considered the least sensitive to air pollution. Exposure periods are relatively short and intermittent, as the majority of the workers tend to stay indoors most of the time. In addition, the working population is generally the healthiest segment of the public. The nearest sensitive receptors to the project site are the townhomes to the north and Legacy Magnet Academy to the south of the project site.

Thresholds of Significance

The analysis of the proposed project's air quality impacts follows the guidance and methodologies recommended in South Coast AQMD's *CEQA Air Quality Handbook* and the significance thresholds on South Coast AQMD's website (South Coast AQMD 1993). CEQA allows the significance criteria established by the

applicable air quality management or air pollution control district to be used to assess impacts of a project on air quality. South Coast AQMD has established thresholds of significance for regional air quality emissions for construction activities and project operation. In addition to the daily thresholds listed above, projects are also subject to the AAQS. These are addressed though an analysis of localized CO impacts and localized significance thresholds (LSTs).

REGIONAL SIGNIFICANCE THRESHOLDS

The South Coast AQMD has adopted regional construction and operational emissions thresholds to determine a project's cumulative impact on air quality in the SoCAB. Table 5, *South Coast AQMD Significance Thresholds*, lists South Coast AQMD's regional significance thresholds that are applicable for all projects uniformly regardless of size or scope. There is growing evidence that although ultrafine particulates contribute a very small portion of the overall atmospheric mass concentration, they represent a greater proportion of the health risk from PM. However, the US EPA or CARB have not yet adopted AAQS to regulate ultrafine particulates; therefore, South Coast AQMD has not developed thresholds for them.

Table 5 South Coast AQMD Significance Thresholds

Air Pollutant	Construction Phase	Operational Phase
Reactive Organic Gases (ROGs)/ Volatile Organic Compounds (VOCs)	75 lbs/day	55 lbs/day
Nitrogen Oxides (NO_X)	100 lbs/day	55 lbs/day
Carbon Monoxide (CO)	550 lbs/day	550 lbs/day
Sulfur Oxides (SO_X)	150 lbs/day	150 lbs/day
Particulates (PM_{10})	150 lbs/day	150 lbs/day
Particulates ($PM_{2.5}$)	55 lbs/day	55 lbs/day

Source: South Coast AQMD 2023.

Projects that exceed the regional significance threshold contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health. Exposure to fine particulate pollution and ozone causes myriad health impacts, particularly to the respiratory and cardiovascular systems:

- Linked to increased cancer risk ($PM_{2.5}$, TACs)
- Aggravates respiratory disease (O_3, $PM_{2.5}$)
- Increases bronchitis (O_3, $PM_{2.5}$)
- Causes chest discomfort, throat irritation, and increased effort to take a deep breath (O_3)
- Reduces resistance to infections and increases fatigue (O_3)
- Reduces lung growth in children ($PM_{2.5}$)
- Contributes to heart disease and heart attacks ($PM_{2.5}$)
- Contributes to premature death (O_3, $PM_{2.5}$)
- Linked to lower birth weight in newborns ($PM_{2.5}$) (South Coast AQMD 2015a)

Exposure to fine particulates and ozone aggravates asthma attacks and can amplify other lung ailments such as emphysema and chronic obstructive pulmonary disease. Exposure to current levels of $PM_{2.5}$ is responsible for an estimated 4,300 cardiopulmonary-related deaths per year in the SoCAB. In addition, University of Southern California scientists responsible for a landmark children's health study found that lung growth improved as air pollution declined for children aged 11 to 15 in five communities in the SoCAB (South Coast AQMD 2015b).

South Coast AQMD is the primary agency responsible for ensuring the health and welfare of sensitive individuals exposed to elevated concentrations of air pollutants in the SoCAB and has established thresholds that would be protective of these individuals. To achieve the health-based standards established by the EPA, South Coast AQMD prepares an AQMP that details regional programs to attain the AAQS. Mass emissions thresholds shown in Table 4 are not correlated with concentrations of air pollutants but contribute to the cumulative air quality impacts in the SoCAB. These thresholds are based on the trigger levels for the federal New Source Review Program, which was created to ensure projects are consistent with attainment of health-based federal AAQS. Regional emissions from a single project do not trigger a regional health impact, and it is speculative to identify how many more individuals in the air basin would be affected by the health effects listed previously. Projects that do not exceed the South Coast AQMD regional significance thresholds in Table 4 would not violate any air quality standards or contribute substantially to an existing or projected air quality violation.

If projects exceed the emissions levels presented in Table 4, then those emissions would cumulatively contribute to the nonattainment status of the air basin and would contribute to elevating health effects associated with these criteria air pollutants. Known health effects related to ozone include worsening of bronchitis, asthma, and emphysema and a decrease in lung function. Health effects associated with particulate matter include premature death of people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, decreased lung function, and increased respiratory symptoms. Reducing emissions would contribute to reducing possible health effects related to criteria air pollutants. However, for projects that exceed the emissions in Table 4, it is speculative to determine how exceeding the regional thresholds would affect the number of days the region is in nonattainment, because mass emissions are not correlated with concentrations of emissions or how many additional individuals in the air basin would be affected by the health effects cited previously.

South Coast AQMD has not provided methodology to assess the specific correlation between mass emissions generated and the effect on health to address the issue raised in *Sierra Club v. County of Fresno* (Friant Ranch, L.P.) (2018) 6 Cal.5th 502, Case No. S21978. South Coast AQMD currently does not have methodologies that would provide the City with a consistent, reliable, and meaningful analysis to correlate specific health impacts that may result from a proposed project's mass emissions.[8] Ozone concentrations are dependent on a

[8] In April 2019, the Sacramento Metropolitan Air Quality Management District (SMAQMD) published an Interim Recommendation on implementing Sierra Club v. County of Fresno (2018) 6 Cal.5th 502 ("Friant Ranch") in the review and analysis of the proposed project under CEQA in Sacramento County. Consistent with the expert opinions submitted to the court in Friant Ranch by the San Joaquin Valley Air Pollution Control District (SJVAPCD) and South Coast AQMD, the SMAQMD guidance confirms the absence of an acceptable or reliable quantitative methodology that would correlate the expected criteria air pollutant emissions of projects to likely health consequences for people from project-generated criteria air pollutant emissions. The SMAQMD guidance

variety of complex factors, including the presence of sunlight and precursor pollutants, natural topography, nearby structures that cause building downwash, atmospheric stability, and wind patterns. Because of the complexities of predicting ground-level ozone concentrations in relation to the National and California AAQS, and the absence of modeling tools that could provide statistically valid data and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects, it is not possible to link specific health risks to the magnitude of emissions exceeding the significance thresholds. However, if a project in the SoCAB exceeds the regional significance thresholds, the project could contribute to an increase in health effects in the basin until the attainment standards are met in the SoCAB.

CO HOTSPOTS

Areas of vehicle congestion have the potential to create pockets of CO called hot spots. These pockets have the potential to exceed the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to ambient air quality standards is typically demonstrated through an analysis of localized CO concentrations. Hot spots are typically produced at intersections, where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the SoCAB and in the state have steadily declined.

In 2007, the SoCAB was designated in attainment for CO under both the California AAQS and National AAQS. The CO hotspot analysis conducted for the attainment by the South Coast AQMD for busiest intersections in Los Angeles during the peak morning and afternoon periods plan did not predict a violation of CO standards.[9] As identified in the South Coast AQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SoCAB in previous years, prior to redesignation, were a result of unusual meteorological and topographical conditions and not a result of congestion at a particular intersection. Since South Coast AQMD currently does not have an adopted CO hotspot screening criteria, Bay Area Air District's recommended threshold was used in this analysis. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection to more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (Bay Area Air District 2023).

LOCALIZED SIGNIFICANCE THRESHOLDS

The South Coast AQMD developed LSTs for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$ generated at the project site (offsite mobile-source emissions are not included in the LST analysis). LSTs represent the

explains that while it is in the process of developing a methodology to assess these impacts, lead agencies should follow the Friant Court's advice to explain in meaningful detail why this analysis is not yet feasible. Since this interim memorandum SMAQMD has provided methodology to address health impacts. However, a similar analysis is not available for projects within the South Coast AQMD region.

9 The four intersections were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day with LOS E in the morning peak hour and LOS F in the evening peak hour.

maximum emissions at a project site that are not expected to cause or contribute to an exceedance of the most stringent federal or state AAQS and are shown in Table 6, *South Coast AQMD Localized Significance Thresholds*.

Table 6 South Coast AQMD Localized Significance Thresholds

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO_2 Standard (CAAQS)	0.18 ppm
Annual NO_2 Standard (CAAQS)	0.03 ppm
24-Hour PM_{10} Standard – Construction (South Coast AQMD)[1]	10.4 µg/m^3
24-Hour $PM_{2.5}$ Standard – Construction (South Coast AQMD)[1]	10.4 µg/m^3
24-Hour PM_{10} Standard – Operation (South Coast AQMD)[1]	2.5 µg/m^3
24-Hour $PM_{2.5}$ Standard – Operation (South Coast AQMD)[1]	2.5 µg/m^3

Source: South Coast AQMD 2023.
ppm – parts per million; µg/m^3 – micrograms per cubic meter
[1] Threshold is based on South Coast AQMD Rule 403. Since the SoCAB is in nonattainment for PM_{10} and $PM_{2.5}$, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

To assist lead agencies, South Coast AQMD developed screening-level LSTs to back-calculate the mass amount (lbs. per day) of emissions generated onsite that would trigger the levels shown in Table 5 for projects under 5-acres. These "screening-level" LSTs tables are the localized significance thresholds for all projects of five acres and less; however, it can be used as screening criteria for larger projects to determine whether or not dispersion modeling may be required to compare concentrations of air pollutants generated by the project to the localized concentrations shown in Table 5.

In accordance with South Coast AQMD's LST methodology, the screening-level construction LSTs are based on the acreage disturbed per day based on equipment use. The screening-level construction LSTs for the project site in SRA 19 are shown in Table 7, *South Coast AQMD Screening-Level Localized Significance Thresholds,* for sensitive receptors within 140 feet (43meters) for NO_X, CO, PM_{10} and $PM_{2.5}$.

Table 7 South Coast AQMD Screening-Level Localized Significance Thresholds

	Threshold (lbs/day)[1]			
Acreage Disturbed	Nitrogen Oxides (NO_X)	Carbon Monoxide (CO)	Coarse Particulates (PM_{10})	Fine Particulates ($PM_{2.5}$)
≤1.00 Acre Disturbed Per Day	92	793	8.95	3.71
1.31 Acre Disturbed Per Day	104	907	10.68	4.24
2.31 Acre Disturbed Per Day	135	1,248	16.06	5.90
2.50 Acre Disturbed Per Day	139	1,301	17.01	6.20
3.50 Acre Disturbed Per Day	160	1,587	22.08	7.77
4.50 Acre Disturbed Per Day	181	1,872	27.14	9.34
5.00 Acre Disturbed Per Day	191	2,015	29.67	10.12

Source: South Coast AQMD 2008, 2011, and 2023.
[1] LSTs are based on sensitive receptors within 140 feet (43 meters) for NO_X, CO, PM_{10} and $PM_{2.5}$ in SRA 19.

HEALTH RISK

Whenever a project would require use of chemical compounds that have been identified in South Coast AQMD Rule 1401, placed on CARB's air toxics list pursuant to AB 1807, or placed on the EPA's National Emissions Standards for Hazardous Air Pollutants, a health risk assessment is required by the South Coast AQMD. Table 8, *South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds*, lists the TAC incremental risk thresholds for operation of a project. The type of land uses that typically generate substantial quantities of criteria air pollutants and TACs from operations include industrial (stationary sources) and warehousing (truck idling) land uses (CARB 2005). As educational and recreational uses do not use substantial quantities of TACs, these thresholds are typically applied to new industrial projects only. Additionally, the purpose of this environmental evaluation is to identify the significant effects of the proposed project on the environment, not the significant effects of the environment on the proposed project (*California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369 (Case No. S213478)).

Table 8 South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds

Maximum Incremental Cancer Risk	≥ 10 in 1 million
Hazard Index (project increment)	≥ 1.0
Cancer Burden in areas ≥ 1 in 1 million	> 0.5 excess cancer cases

Source: South Coast AQMD 2023.

Draft Operational Cumulative Health Risk Thresholds

South Coast AQMD initiated a Working Group to identify cumulative health risk thresholds for development projects in order to address community concerns of health risk impacts of new projects being developed in areas where there is a higher pollution burden. The cumulative health risk threshold methodology first utilizes a screening approach to identify whether projects can qualitatively address cumulative health risk or quantitatively address health risk:

- **Low Cancer Risk Project Types**: Residential, commercial, recreational, educational, and retail.
- **Medium Cancer Risk Project Types**: Truck yards, gas stations, small industrial projects, and linear projects.
- **High Cancer Risk Project Types**. Industrial, major transportation projects (airports, port, railyard, bus/train station), and major planning projects.

For projects with low and medium cancer risks, like the proposed project, a quantitative analysis is not warranted. For projects with the potential to cause high cancer risk impacts, a quantitative is recommended. The initial cumulative threshold is based on MATES V cancer risk percentile, which identifies a gradient of the effects of air pollution on cancer risk in the South Coast AQMD Region. If the project triggers additional

criteria, then the initial cumulative threshold should be adjusted as shown in Table 9, *MATES V Adjusted Cumulative Significant Cancer Risk Thresholds*.

Table 9 MATES V Adjusted Cumulative Significant Cancer Risk Thresholds

Project's Background MATES V Cancer Risk[1]	Adjusted Cumulative Cancer Risk Threshold
Most Stringent	≥ 1 in 1 million
>90th Percentile	≥ 3 in 1 million
90th Percentile to 50th Percentile	≥ 5 in 1 million
50th Percentile to 30th Percentile	≥ 7 in 1 million
< 30th Percentile	≥ 10 in 1 million

Source: South Coast AQMD 2024.
Notes:
[1] Most current MATES V is based on 2018 data.

As stated previously, South Coast AQMD has identified that the initial thresholds in Table 3.2-9 should be adjusted if any of the following criteria apply:

- **Criteria #1 – Post-2018 Projects with High Volume Diesel Fueled Trucks.** Post-2018 projects are not accounted for in MATES V. Therefore, if new warehousing projects along the truck route[10] have been constructed, then the initial thresholds will be adjusted to the next, more stringent level (e.g., cumulative threshold will adjust from 10 in one million to 7 in one million).

- **Criteria #2 – Health Sensitive Population.** If the project site is within SB 535 or AB 617 community, then the initial thresholds will be adjusted to the next, more stringent level (e.g., cumulative threshold will adjust from 7 in one million to 5 in one million).

This type of project would be considered low to medium cancer risks; thus, an operational cancer risk analysis for the proposed project would not be warranted.

GREENHOUSE GAS EMISSIONS

Scientists have concluded that human activities are contributing to global climate change by adding large amounts of heat-trapping gases, known as GHG, to the atmosphere. Climate change is the variation of Earth's climate over time, whether due to natural variability or as a result of human activities. The primary source of these GHG is fossil fuel use. The Intergovernmental Panel on Climate Change (IPCC) has identified four major GHG—water vapor,[11] carbon (CO_2), methane (CH_4), and ozone (O_3)—that are the likely cause of an increase in global average temperatures observed within the 20th and 21st centuries. Other

[10] Truck route is from the project site to major freeway, within certain distance to sensitive receptors, add all diesel-fueled trucks from post-2018 projects.

[11] Water vapor (H_2O) is the strongest GHG and the most variable in its phases (vapor, cloud droplets, ice crystals). However, water vapor is not considered a pollutant, but part of the feedback loop rather than a primary cause of change.

GHG identified by the IPCC that contribute to global warming to a lesser extent include nitrous oxide (N_2O), sulfur hexafluoride (SF_6), hydrofluorocarbons, perfluorocarbons, and chlorofluorocarbons (IPCC 2001).[12] The major GHG are briefly described below.

- **Carbon dioxide (CO_2)** enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and respiration, and also as a result of other chemical reactions (e.g. manufacture of cement). Carbon dioxide is removed from the atmosphere (sequestered) when it is absorbed by plants as part of the biological carbon cycle.

- **Methane (CH_4)** is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and from the decay of organic waste in municipal landfills and water treatment facilities.

- **Nitrous oxide (N_2O)** is emitted during agricultural and industrial activities as well as during combustion of fossil fuels and solid waste.

- **Fluorinated gases** are synthetic, strong GHGs that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for ozone-depleting substances. These gases are typically emitted in smaller quantities, but because they are potent GHGs, they are sometimes referred to as high global-warming-potential (GWP) gases.

    - *Chlorofluorocarbons (CFCs*) are GHGs covered under the 1987 Montreal Protocol and used for refrigeration, air conditioning, packaging, insulation, solvents, or aerosol propellants. Since they are not destroyed in the lower atmosphere (troposphere, stratosphere), CFCs drift into the upper atmosphere where, given suitable conditions, they break down ozone. These gases are also ozone-depleting gases and are therefore being replaced by other compounds that are GHGs covered under the Kyoto Protocol.

    - *Perfluorocarbons (PFCs)* are a group of human-made chemicals composed of carbon and fluorine only. These chemicals (predominantly perfluoromethane [CF_4] and perfluoroethane [C_2F_6]) were introduced as alternatives, along with HFCs, to the ozone-depleting substances. In addition, PFCs are emitted as by-products of industrial processes and are used in manufacturing. PFCs do not harm the stratospheric ozone layer, but they have a high global warming potential.

    - *Sulfur Hexafluoride (SF_6)* is a colorless gas soluble in alcohol and ether, slightly soluble in water. SF_6 is a strong GHG used primarily in electrical transmission and distribution systems as an insulator.

[12] Black carbon contributes to climate change both directly, by absorbing sunlight, and indirectly, by depositing on snow (making it melt faster) and by interacting with clouds and affecting cloud formation. Black carbon is the most strongly light-absorbing component of particulate matter (PM) emitted from burning fuels such as coal, diesel, and biomass. Reducing black carbon emissions globally can have immediate economic, climate, and public health benefits. California has been an international leader in reducing emissions of black carbon, with close to 95 percent control expected by 2020 due to existing programs that target reducing PM from diesel engines and burning activities (CARB 2017). However, state and national GHG inventories do not yet include black carbon due to ongoing work resolving the precise global warming potential of black carbon. Guidance for CEQA documents does not yet include black carbon.

- *Hydrochlorofluorocarbons (HCFCs)* contain hydrogen, fluorine, chlorine, and carbon atoms. Although ozone-depleting substances, they are less potent at destroying stratospheric ozone than CFCs. They have been introduced as temporary replacements for CFCs and are also GHGs.

- *Hydrofluorocarbons (HFCs)* contain only hydrogen, fluorine, and carbon atoms. They were introduced as alternatives to ozone-depleting substances to serve many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are also used in manufacturing. They do not significantly deplete the stratospheric ozone layer, but they are strong GHGs (IPCC 2001; US EPA 2025b).

GHGs are dependent on the lifetime or persistence of the gas molecule in the atmosphere. Some GHGs have stronger greenhouse effects than others. These are referred to as high GWP gases. The GWP of GHG emissions are shown in Table 10, *GHG Emissions and Their Relative Global Warming Potential Compared to CO_2*. The GWP is used to convert GHGs to CO_2-equivalence (CO_2e) to show the relative potential that different GHGs have to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. For example, under IPCC's Fifth Assessment Report (AR5) GWP values for CH_4, a project that generates 10 MT of CH_4 would be equivalent to 280 MT of CO_2.[13]

Table 10 GHG Emissions and Their Relative Global Warming Potential Compared to CO_2

GHGs	Fourth Assessment Report (AR4) Global Warming Potential Relative to CO_2[1]	Fifth Assessment Report (AR5) Global Warming Potential Relative to CO_2[1]	Sixth Assessment Report (AR6) Global Warming Potential Relative to CO_2[1]
Carbon Dioxide (CO_2)	1	1	1
Methane[2] (CH_4)	25	28	30
Nitrous Oxide (N_2O)	298	265	273

Source: IPCC 2007, 2013, and 2023.
Notes: The IPCC published updated GWP values in its Sixth Assessment Report (AR6) that reflect latest information on atmospheric lifetimes of GHGs and an improved calculation of the radiative forcing of CO_2. However, GWP values identified in AR5 are used by the 2022 Scoping Plan for long-term emissions forecasting.
1 Based on 100-year time horizon of the GWP of the air pollutant compared to CO_2.
2 The methane GWP includes direct effects and indirect effects due to the production of tropospheric ozone and stratospheric water vapor. The indirect effect due to the production of CO_2 is not included.

GHG Regulatory Setting

REGULATION OF GHG EMISSIONS ON A NATIONAL LEVEL

The US Environmental Protection Agency (EPA) announced on December 7, 2009, that GHG emissions threaten the public health and welfare of the American people and that GHG emissions from on-road vehicles contribute to that threat. The EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHG emissions fit within the Clean Air Act definition of air pollutants. The findings do not in and of themselves impose any emission reduction requirements but allow the EPA to finalize the GHG standards proposed in 2009 for new light-duty vehicles as part of the joint rulemaking with the Department of Transportation (US EPA 2009).

[13] The global warming potential of a GHG is dependent on the lifetime, or persistence, of the gas molecule in the atmosphere.

To regulate GHGs from passenger vehicles, EPA was required to issue an endangerment finding. The finding identifies emissions of six key GHGs—CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6—that have been the subject of scrutiny and intense analysis for decades by scientists in the United States and around the world. The first three are applicable to the project's GHG emissions inventory because they constitute the majority of GHG emissions and, per South Coast AQMD guidance, are the GHG emissions that should be evaluated as part of a project's GHG emissions inventory.

US Mandatory Report Rule for GHGs (2009)

In response to the endangerment finding, the EPA issued the Mandatory Reporting of GHG Rule that requires substantial emitters of GHG emissions (large stationary sources, etc.) to report GHG emissions data. Facilities that emit 25,000 MT or more of CO_2 per year are required to submit an annual report.

Update to Corporate Average Fuel Economy Standards (2021 to 2026)

The federal government issued new Corporate Average Fuel Economy (CAFE) standards in 2012 for model years 2017 to 2025, which required a fleet average of 54.5 miles per gallon in 2025. On March 30, 2020, the EPA finalized an updated CAFE and GHG emissions standards for passenger cars and light trucks and established new standards covering model years 2021 through 2026, known as the Safer Affordable Fuel Efficient (SAFE) Vehicles Final Rule for Model Years 2021 to 2026. Under SAFE, the fuel economy standards will increase 1.5 percent per year compared to the 5 percent per year under the CAFE standards established in 2012. Overall, SAFE requires a fleet average of 40.4 MPG for model year 2026 vehicles (85 Federal Register 24174 (April 30, 2020)).

On December 21, 2021, under direction of Executive Order (EO) 13990 issued by President Biden, the National Highway Traffic Safety Administration repealed Safer Affordable Fuel Efficient Vehicles Rule Part One, which had preempted state and local laws related to fuel economy standards. In addition, on March 31, 2022, the National Highway Traffic Safety Administration finalized new fuel standards in response to EO 13990. Fuel efficiency under the standards proposed will increase 8 percent annually for model years 2024 to 2025 and 10 percent annual for model year 2026. Overall, the new CAFE standards require a fleet average of 49 MPG for passenger vehicles and light trucks for model year 2026, which would be a 10 MPG increase relative to model year 2021 (NHTSA 2022).

On June 7, 2024, NHTSA announced final CAFE standards for passenger cars and light trucks built in model years 2027-2031 and final fuel efficiency standards for heavy-duty pickup trucks and vans built in model years 2030-2035. The final rules establish standards that would require an industry fleet-wide average of approximately 50.4 mpg for passenger cars and light trucks in model year 2031, by increasing fuel economy by 2 percent year over year for passenger cars (model years 2027-2031) and for light trucks (model years 2029-2031). For heavy-duty pickup trucks and vans, the final rule would increase fuel efficiency at a rate of 10 percent per year (model years 2030-2032) and 8 percent per year (model years 2033-2035) (NHTSA 2024).

EPA Regulation of Stationary Sources under the Clean Air Act (Ongoing)

Pursuant to its authority under the Clean Air Act, the EPA has developed regulations for new, large, stationary sources of emissions, such as power plants and refineries. Under former President Obama's 2013

Climate Action Plan, the EPA was directed to develop regulations for existing stationary sources as well. On June 19, 2019, the EPA issued the final Affordable Clean Energy (ACE) rule, which became effective on August 19, 2019. The ACE rule was crafted under the direction of President Trump's Energy Independence EO. It officially rescinded the Clean Power Plan rule issued during the Obama Administration and set emissions guidelines for states in developing plans to limit CO_2 emissions from coal-fired power plants. The Affordable Clean Energy rule was vacated by the United States Court of Appeals for the District of Columbia Circuit on January 19, 2021. The Biden Administration is assessing options on potential future regulations.

REGULATION OF GHG EMISSIONS ON A STATE LEVEL

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in EO S-03-05 and EO B-30-15, EO B-55-18, Assembly Bill 32 (AB 32), Senate Bill 32 (SB 32), and SB 375.

Executive Order S-3-05

Executive Order S-3-05, signed June 1, 2005. Executive Order S-3-05 set the following GHG reduction targets for the State:

- 2000 levels by 2010
- 1990 levels by 2020
- 80 percent below 1990 levels by 2050

Assembly Bill 32, the Global Warming Solutions Act (2006)

AB 32 was passed by the California state legislature on August 31, 2006, to place the state on a course toward reducing its contribution of GHG emissions. AB 32 follows the 2020 tier of emissions reduction targets established in EO S-03-05. CARB prepared the 2008 Scoping Plan to outline a plan to achieve the GHG emissions reduction targets of AB 32.

Executive Order B-30-15

EO B-30-15, signed April 29, 2015, set a goal of reducing GHG emissions within the state to 40 percent of 1990 levels by year 2030. EO B-30-15 also directed CARB to update the Scoping Plan to quantify the 2030 GHG reduction goal for the state and requires state agencies to implement measures to meet the interim 2030 goal as well as the long-term goal for 2050 in EO S-03-05. It also requires the Natural Resources Agency to conduct triennial updates of the California adaption strategy, "Safeguarding California", in order to ensure climate change is accounted for in state planning and investment decisions.

Senate Bill 32 and Assembly Bill 197

In September 2016, Governor Brown signed SB 32 and AB 197 into law, making the Executive Order goal for year 2030 into a statewide mandated legislative target. AB 197 established a joint legislative committee on climate change policies and requires the CARB to prioritize direction emissions reductions rather than the market-based cap-and-trade program for large stationary, mobile, and other sources.

Executive Order B-55-18

Executive Order B-55-18, signed September 10, 2018, set a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." Executive Order B-55-18 directs CARB to work with relevant state agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning that not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions should be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Assembly Bill 1279

AB 1279, signed by Governor Newsom in September 2022, codified the carbon neutrality targets of EO B-55-18 for year 2045 and sets a new legislative target for year 2045 of 85 percent below 1990 levels for anthropogenic GHG emissions. SB 1279 also requires CARB to update the Scoping Plan to address these new targets.

2022 Climate Change Scoping Plan

CARB adopted the *2022 Scoping Plan for Achieving Carbon Neutrality* (2022 Scoping Plan) on December 15, 2022, which lays out a path to achieve carbon neutrality by 2045 or earlier and to reduce the State's anthropogenic GHG emissions (CARB 2022). The Scoping Plan provides updates to the previously adopted 2017 Scoping Plan and addresses the carbon neutrality goals of EO B-55-18 (discussed below) and the ambitious GHG reduction target as directed by AB 1279. Previous Scoping Plans focused on specific GHG reduction targets for our industrial, energy, and transportation sectors—to meet 1990 levels by 2020, and then the more aggressive 40 percent below that for the 2030 target. The 2022 Scoping Plan updates the target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. Carbon neutrality takes it one step further by expanding actions to capture and store carbon including through natural and working lands and mechanical technologies, while drastically reducing anthropogenic sources of carbon pollution at the same time.

The path forward was informed by the recent Sixth Assessment Report (AR6) of the IPCC and the measures would achieve 85 percent below 1990 levels by 2045 in accordance AB 1279. CARB's 2022 Scoping Plan identifies strategies as shown in Table 11, *Priority Strategies for Local Government Climate Action Plans*, that would be most impactful at the local level for ensuring substantial process towards the State's carbon neutrality goals.

Table 11 Priority Strategies for Local Government Climate Action Plans

Priority Area	Priority Strategies
Transportation Electrification	Convert local government fleets to zero-emission vehicles (ZEV) and provide EV charging at public sites.
	Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans).
VMT Reduction	Reduce or eliminate minimum parking standards.

Table 11 Priority Strategies for Local Government Climate Action Plans

Priority Area	Priority Strategies
	Implement Complete Streets policies and investments, consistent with general plan circulation element requirements.
	Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.
	Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking
	Implement parking pricing or transportation demand management pricing strategies.
	Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing allowable density of the neighborhood).
	Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements)
Building Decarbonization	Adopt all-electric new construction reach codes for residential and commercial uses.
	Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipment with more efficient systems (such as Energy Star-rated equipment and equipment controllers).
	Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances.
	Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing) .
	Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings) .

Source: CARB 2022.

Based on Appendix D of the 2022 CARB Climate Change Scoping Plan, for residential and mixed-use development projects, CARB recommends first demonstrating that these land use development projects are aligned with State climate goals based on the attributes of land use development that reduce operational GHG emissions while simultaneously advancing fair housing. Attributes that accommodate growth in a manner consistent with the GHG and equity goals of SB 32 have all the following attributes:

- Transportation Electrification
  - Provide EV charging infrastructure that, at a minimum, meets the most ambitious voluntary standards in the California Green Building Standards Code at the time of project approval.

- VMT Reduction
  - Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).

  - Does not result in the loss or conversion of the State's natural and working lands;

- Consists of transit-supportive densities (minimum of 20 residential dwelling units/acre), or is in proximity to existing transit stops (within a half mile), or satisfies more detailed and stringent criteria specified in the region's Sustainable Communities Strategy (SCS);
- Reduces parking requirements by:
  - Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or
  - Providing residential parking supply at a ratio of <1 parking space per dwelling unit; or
  - For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.
- At least 20 percent of the units are affordable to lower-income residents;
- Result in no net loss of existing affordable units.

■ Building Decarbonization

- Use all electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking (CARB 2022).

If the first approach to demonstrating consistency is not applicable (such as in the case of this school modernization project), the second approach to project-level alignment with state climate goals is to achieve net zero GHG emissions. The third approach to demonstrating project-level alignment with state climate goals is to align with GHG thresholds of significance, which many local air quality management (AQMDs) and air pollution control districts (APCDs) have developed or adopted (CARB 2022).

Senate Bill 375

In 2008, SB 375, the Sustainable Communities and Climate Protection Act, was adopted to connect the GHG emissions reductions targets established in the 2008 Scoping Plan for the transportation sector to local land use decisions that affect travel behavior. Its intent is to reduce GHG emissions from light-duty trucks and automobiles (excludes emissions associated with goods movement) by aligning regional long-range transportation plans, investments, and housing allocations to local land use planning to reduce VMT and vehicle trips. Specifically, SB 375 required CARB to establish GHG emissions reduction targets for each of the 18 metropolitan planning organizations (MPO). The SCAG is the MPO for the Southern California region, which includes the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial.

Pursuant to the recommendations of the Regional Transportation Advisory Committee, CARB adopted per capita reduction targets for each of the MPOs rather than a total magnitude reduction target. SCAG's targets are an 8 percent per capita reduction from 2005 GHG emission levels by 2020 and a 13 percent per capita reduction from 2005 GHG emission levels by 2035 (CARB 2010). The 2020 targets are smaller than the 2035 targets because a significant portion of the built environment in 2020 is defined by decisions that have already

been made. In general, the 2020 scenarios reflect that more time is needed for large land use and transportation infrastructure changes. Most of the reductions in the interim are anticipated to come from improving the efficiency of the region's transportation network. The targets would result in 3 $MMTCO_2e$ of reductions by 2020 and 15 $MMTCO_2e$ of reductions by 2035. Based on these reductions, the passenger vehicle target in CARB's Scoping Plan (for AB 32) would be met (CARB 2010).

2017 Update to the SB 375 Targets

CARB is required to update the targets for the MPOs every eight years. CARB adopted revised SB 375 targets for the MPOs in March 2018. The updated targets became effective in October2018. All SCSs adopted after October 1, 2018, are subject to these new targets. CARB's updated SB 375 targets for the SCAG region were an 8 percent per capita GHG reduction in 2020 from 2005 levels (unchanged from the 2010 target) and a 19 percent per capita GHG reduction in 2035 from 2005 levels (compared to the 2010 target of 13 percent) (CARB 2018).

The targets consider the need to further reduce VMT, as identified in the 2017 Scoping Plan Update (for SB 32), while balancing the need for additional and more flexible revenue sources to incentivize positive planning and action toward sustainable communities. Like the 2010 targets, the updated SB 375 targets are in units of "percent per capita" reductions in GHG emissions from automobiles and light trucks relative to 2005; this excludes reductions anticipated from implementation of state technology and fuels strategies and any potential future state strategies, such as statewide road user pricing. The proposed targets call for greater per-capita GHG emission reductions from SB 375 than are currently in place, which for 2035 translate into proposed targets that either match or exceed the emission reduction levels in the MPOs' currently adopted SCSs to achieve the SB 375 targets. CARB foresees that the additional GHG emissions reductions in 2035 may be achieved from land use changes, transportation investment, and technology strategies (CARB 2018).

SCAG's Regional Transportation Plan / Sustainable Communities Strategy

SB 375 requires each MPO to prepare a sustainable communities strategy in its regional transportation plan (RTP/SCS). For the SCAG region, the 2024-2050 RTP/SCS, Connect SoCal, was adopted on April 4, 2024, and is an update to the 2020-2045 RTP/SCS. In general, the RTP/SCS outlines a development pattern for the region that, when integrated with the transportation network and other transportation measures and policies, would reduce VMT from automobiles and light duty trucks and thereby reduce GHG emissions from these sources.

Connect SoCal focuses on the continued efforts of the previous RTP/SCSs to integrate transportation and land use strategies in development of the SCAG region through the horizon year 2050 (SCAG 2024). Connect SoCal forecasts that the SCAG region will meet its GHG per capita reduction targets of 8 percent by 2020 and 19 percent by 2035. It also forecasts that implementation of the plan will reduce VMT per capita in year 2050 by 6.3 percent compared to baseline conditions for that year. Connect SoCal includes a "Core Vision" that centers on maintaining and better managing the transportation network for moving people and goods, while expanding mobility choices by locating housing, jobs, and transit closer together; and increasing investments in transit and complete streets (SCAG 2024).

Transportation Sector Specific Regulations

Assembly Bill 1493

California vehicle GHG emission standards were enacted under AB 1493 (Pavley I). Pavley I is a clean-car standard that reduces GHG emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016 and is anticipated to reduce GHG emissions from new passenger vehicles by 30 percent in 2016. California implements the Pavley I standards through a waiver granted to California by the EPA. In 2012, the EPA issued a Final Rulemaking that sets even more stringent fuel economy and GHG emissions standards for model years 2017 through 2025 light-duty vehicles. (See also the discussion on the update to the Corporate Average Fuel Economy standards at the beginning of this Section 5.5.2 under "Federal.") In January 2012, CARB approved the Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of ZE vehicles into a single package of standards. Under California's Advanced Clean Car program, by 2025 new automobiles will emit 34 percent less GHG emissions and 75 percent less smog-forming emissions.

Executive Order S-01-07

On January 18, 2007, the state set a new LCFS for transportation fuels sold in the state. Executive Order S-01-07 sets a declining standard for GHG emissions measured in CO_2e gram per unit of fuel energy sold in California. The LCFS required a reduction of 2.5 percent in the carbon intensity of California's transportation fuels by 2015 and a reduction of at least 10 percent by 2020. The standard applies to refiners, blenders, producers, and importers of transportation fuels, and uses market-based mechanisms to allow these providers to choose how they reduce emissions during the "fuel cycle" using the most economically feasible methods.

Executive Order B-16-2012

On March 23, 2012, the state identified that CARB, the California Energy Commission (CEC), the Public Utilities Commission, and other relevant agencies worked with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to accommodate ZE vehicles in major metropolitan areas, including infrastructure to support them (e.g., electric vehicle charging stations). The executive order also directed the number of ZE vehicles in California's state vehicle fleet to increase through the normal course of fleet replacement so that at least 10 percent of fleet purchases of light-duty vehicles are ZE by 2015 and at least 25 percent by 2020. The executive order also establishes a target for the transportation sector of reducing GHG emissions to 80 percent below 1990 levels.

Executive Order N-79-20

On September 23, 2020, Governor Newsom signed Executive Order N-79-20, whose goal is that 100 percent of in-state sales of new passenger cars and trucks will be ZE by 2035. Additionally, the fleet goals for trucks are that 100 percent of drayage trucks are ZE by 2035, and 100 percent of medium- and heavy-duty vehicles in the state are ZE by 2045, where feasible. The Executive Order's goal for the State is to transition to 100 percent ZE off-road vehicles and equipment by 2035, where feasible.

Renewables Portfolio: Carbon Neutrality Regulations

Senate Bills 1078, 107, and X1-2 and Executive Order S-14-08

A major component of California's Renewable Energy Program is the renewables portfolio standard established under Senate Bills 1078 (Sher) and 107 (Simitian). Under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010. Executive Order S-14-08, signed in November 2008, expanded the state's renewable energy standard to 33 percent renewable power by 2020. This standard was adopted by the legislature in 2011 (SB X1-2). Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas. The increase in renewable sources for electricity production will decrease indirect GHG emissions from development projects because electricity production from renewable sources is generally considered carbon neutral.

Senate Bill 350

Senate Bill 350 (de Leon) was signed into law September 2015 and establishes tiered increases to the RPS—40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. SB 350 also set a new goal to double the energy-efficiency savings in electricity and natural gas through energy efficiency and conservation measures.

Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100. Under SB 100, the RPS for public-owned facilities and retail sellers consist of 44 percent renewable energy by 2024, 52 percent by 2027, and 60 percent by 2030. SB 100 also established a new RPS requirement of 50 percent by 2026. Furthermore, the bill establishes an overall state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Energy Efficiency Regulations

California Building Energy Code: Energy Efficiency Standards

Energy conservation standards for new residential and non-residential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the CEC) in June 1977 and most recently revised in 2024 (California Code of Regulations [CCR] Title 24, Part 6). Title 24 Part 6 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods.

In 2024, the CEC adopted the 2025 Building Energy Efficiency Standards, which were subsequently approved by the California Building Standards Commission. The 2025 standards become effective and replace the existing 2022 standards on January 1, 2026. The 2025 standards would require mixed-fuel single-family homes to be electric-ready to accommodate replacement of gas appliances with electric appliances. In addition, the new standards also include prescriptive photovoltaic system and battery requirements for high-

rise, multifamily buildings (i.e., more than three stories) and noncommercial buildings such as hotels, offices, medical offices, restaurants, retail stores, schools, warehouses, theaters, and convention centers.[14] The Building Energy and Efficiency Standards and CALGreen undergo a triennial update with a goal to achieve zero net energy for new buildings by 2030.

California Building Code: Green Building Standards (CALGreen)

On July 17, 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR, Part 11, known as "CALGreen") was adopted as part of the California Building Standards Code. CALGreen established planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants.[15] The mandatory provisions of CALGreen became effective January 1, 2011, and were most recently updated in 2024 (2025 CALGreen update). The 2025 CALGreen update becomes effective on January 1, 2026, and provides updates to the residential and non-residential voluntary measures.

2006 Appliance Efficiency Regulations

The 2006 Appliance Efficiency Regulations (20 CCR §§ 1601–1608) were adopted by the CEC on October 11, 2006, and approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both federally regulated appliances and non–federally regulated appliances. Though these regulations are now often viewed as "business as usual," they exceed the standards imposed by all other states, and they reduce GHG emissions by reducing energy demand.

Solid Waste Diversion Regulations

AB 939: Integrated Waste Management Act of 1989

California's Integrated Waste Management Act of 1989 (AB 939, Public Resources Code §§ 40050 et seq.) set a requirement for cities and counties throughout the state to divert 50 percent of all solid waste from landfills by January 1, 2000, through source reduction, recycling, and composting. In 2008, the requirements were modified to reflect a per capita requirement rather than tonnage. To help achieve this, the act requires that each city and county prepare and submit a source reduction and recycling element. AB 939 also established the goal for all California counties to provide at least 15 years of ongoing landfill capacity.

AB 341

AB 341 (Chapter 476, Statutes of 2011) increased the statewide goal for waste diversion to 75 percent by 2020 and requires recycling of waste from commercial and multifamily residential land uses. Section 5.408 of CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

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[14] California Energy Commission, 2021, Amendments to the Building Energy Efficiency Standards (2022 Energy Code) Draft Environmental Report. CEC-400-2021-077-D.

[15] The green building standards became mandatory in the 2010 edition of the code.

AB 1327

The California Solid Waste Reuse and Recycling Access Act (AB 1327, Public Resources Code §§ 42900 et seq.) requires areas to be set aside for collecting and loading recyclable materials in development projects. The act required the California Integrated Waste Management Board to develop a model ordinance for adoption by any local agency requiring adequate areas for collection and loading of recyclable materials as part of development projects. Local agencies are required to adopt the model or an ordinance of their own.

AB 1826

In October of 2014, Governor Brown signed AB 1826 requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste they generate per week. This law also requires that on and after January 1, 2016, local jurisdictions across the state implement an organic waste recycling program to divert organic waste generated by businesses and multifamily residential dwellings with five or more units. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed with food waste.

Water Efficiency Regulations

SBX7-7

The 20x2020 Water Conservation Plan was issued by the Department of Water Resources (DWR) in 2010 pursuant to Senate Bill 7, which was adopted during the 7th Extraordinary Session of 2009–2010 and therefore dubbed "SBX7-7." SBX7-7 mandated urban water conservation and authorized the DWR to prepare a plan implementing urban water conservation requirements (20x2020 Water Conservation Plan). In addition, it required agricultural water providers to prepare agricultural water management plans, measure water deliveries to customers, and implement other efficiency measures. SBX7-7 required urban water providers to adopt a water conservation target of 20 percent reduction in urban per capita water use by 2020 compared to 2005 baseline use.

AB 1881: Water Conservation in Landscaping Act

The Water Conservation in Landscaping Act of 2006 (AB 1881) requires local agencies to adopt the updated DWR model ordinance or an equivalent. AB 1881 also requires the CEC to consult with the DWR to adopt, by regulation, performance standards and labeling requirements for landscape irrigation equipment, including irrigation controllers, moisture sensors, emission devices, and valves to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy or water.

Short-Lived Climate Pollutant Reduction Strategy

Senate Bill 1383

On September 19, 2016, the Governor signed SB 1383 to supplement the GHG reduction strategies in the Scoping Plan to consider short-lived climate pollutants, including black carbon and CH_4. Black carbon is the light-absorbing component of fine particulate matter produced during the incomplete combustion of fuels. SB 1383 required the state board, no later than January 1, 2018, to approve and begin implementing a comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in

methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030. The bill also established targets for reducing organic waste in landfills. On March 14, 2017, CARB adopted the Short-Lived Climate Pollutant Reduction Strategy, which identifies the state's approach to reducing anthropogenic and biogenic sources of short-lived climate pollutants. Anthropogenic sources of black carbon include on- and off-road transportation, residential wood burning, fuel combustion (charbroiling), and industrial processes. According to CARB, ambient levels of black carbon in California are 90 percent lower than in the early 1960s, despite the tripling of diesel fuel use (CARB 2017). In-use on-road rules were expected to reduce black carbon emissions from on-road sources by 80 percent between 2000 and 2020. South Coast AQMD is one of the air districts that requires air pollution control technologies for chain-driven broilers, which reduces particulate emissions from these charbroilers by over 80 percent (CARB 2017). Additionally, South Coast AQMD Rule 445 limits installation of new fireplaces in the South Coast Air Basin.

CALIFORNIA'S GREENHOUSE GAS SOURCES AND RELATIVE CONTRIBUTION

In 2024, the statewide GHG emissions inventory was updated for 2000 to 2022 emissions using the GWPs in IPCC's AR4 and reported that California produced 371.1 MMTCO$_2$e GHG emissions in 2022 (2.4 percent lower than 2021 levels). The 2022 emissions data shows that California is continuing its established long-term trend of GHG emissions declines, despite the anomalous emissions trends from 2019 through 2021, due in large part to the impacts of the COVID-19 pandemic. In 2014, statewide GHG emissions dropped below the 2020 GHG Limit (AB 32 target for year 2020) and have remained below the Limit since that time. Additionally, the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross state product (GSP)) is declining (CARB 2024b).

California's transportation sector was the single-largest generator of GHG emissions, producing 37.7 percent of the state's total emissions. Industrial sector emissions made up 19.6 percent, and electric power generation made up 16.1 percent of the state's emissions inventory. Other major sectors of GHG emissions include residential and commercial (10.6 percent), agriculture and forestry (8.0 percent), high GWP (5.7 percent), and recycling and waste (2.2 percent).

Emissions from transportation sector decreased compared to 2021, primarily due to a greater share of fuels used for on-road transportation being produced from non-fossil resources. Industrial sector decreases from 2021 to 2022, most notably in the oil and gas production sector. Electricity emissions also decreased compared to 2021 from the continued growth of in-state solar generation and increases to in-state hydropower and imported wind power. High-GWP gases continue to replace ozone-depleting substances (ODS) being phased out under the 1987 Montreal Protocol and emissions from this sector have been stable from 2020 to 2022 (CARB 2024b).

Thresholds of Significance

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

1. The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;

2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;

3. The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[16]

SOUTH COAST AQMD WORKING GROUP

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, South Coast AQMD convened a GHG CEQA Significance Threshold Working Group (Working Group). The South Coast AQMD Working Group (Meeting No. 15) identified a tiered approach for evaluating GHG emissions for development projects where South Coast AQMD is not the lead agency (South Coast AQMD 2010):

- **Tier 1.** If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.

- **Tier 2.** If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.

- **Tier 3.** If GHG emissions are less than the screening-level threshold, project-level and cumulative GHG emissions are less than significant.

  For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, South Coast AQMD requires an assessment of GHG emissions. The South Coast AQMD Working Group identified a screening-level threshold of 3,000 $MTCO_2e$ annually for all land use types or the following land-use-specific thresholds: 1,400 $MTCO_2e$ for commercial projects, 3,500 $MTCO_2e$ for residential projects, or 3,000 $MTCO_2e$ for mixed-use projects. These bright-line thresholds are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Based on their review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds identified above. Therefore, projects that do not exceed the bright-line threshold would have a nominal, and therefore, less than cumulatively considerable impact on GHG emissions:

[16] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

- **Tier 4.** If emissions exceed the screening threshold, a more detailed review of the project's GHG emissions is warranted.

  The South Coast AQMD Working Group has identified an efficiency target for projects that exceed the screening threshold of 4.8 $MTCO_2e$ per year per service population ($MTCO_2e$/year/SP) for project-level analyses and 6.6 $MTCO_2e$/year/SP for plan level projects (e.g., program-level projects such as general plans) for the year 2020.[17] The per capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for CARB's 2008 Scoping Plan.

The bright-line screening-level criterion of 3,000 $MTCO_2e$/yr is used as the significance threshold for this project. Therefore, if the project operation-phase emissions exceed the 3,000 $MTCO_2e$/yr threshold, GHG emissions would be considered potentially significant in the absence of mitigation measures.

[17] It should be noted that the Working Group also considered efficiency targets for 2035 for the first time in this Working Group meeting.

BIBLIOGRAPHY

Bay Area Air District. 2023, April. 2022 California Environmental Quality Act Air Quality Guidelines. https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines.

California Air Pollution Control Officer's Association (CAPCOA). 2022, August. CalEEMod, California Emissions Estimator Model User Guide, Version 2022.1. Prepared by: ICF in collaboration with Sacramento Metropolitan Air Quality Management District. https://www.caleemod.com/user-guide.

California Air Resources Board (CARB). 1999. California Air Resources Board (CARB). Final Staff Report: Update to the Toxic Air Contaminant List.

———. 2010, September. Staff Report Proposed Regional Greenhouse Gas Emission Reduction Targets for Automobiles and Light Trucks Pursuant to Senate Bill 375. https://ww3.arb.ca.gov/board/res/2010/res10-31.pdf.

———. 2017, March 14. Final Proposed Short-Lived Climate Pollutant Reduction Strategy. https://ww2.arb.ca.gov/sites/default/files/2018-12/final_slcp_report%20Final%202017.pdf.

———. 2018, February. Proposed Update to the SB 375 Greenhouse Gas Emission Reduction Targets. https://ww2.arb.ca.gov/sites/default/files/2020-06/SB375_Updated_Final_Target_Staff_Report_2018.pdf.

———. 2021, December 9. Staff Report, CARB Review of the South Coast 2021 Redesignation Request and Maintenance Plan. https://ww2.arb.ca.gov/sites/default/files/2021-10/Staff_Report_for_the_South_Coast_PM2.5_Redesignation_Request_and_Maintenance_Plan.pdf.

———. 2022, December 15. CARB 2022 Scoping Plan for Achieving Carbon Neutrality: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf.

———. 2024a, July 16. Ambient Air Quality Standards. https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf.

———. 2024b. September 20. California Greenhouse Gas Emissions from 2000-2022: Trends of Emissions and Other Indicators Report. https://ww2.arb.ca.gov/sites/default/files/2024-09/nc-2000_2022_ghg_inventory_trends.pdf.

———. 2025a, February 27 (accessed). Area Designations Maps/State and National. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations.

———. 2025b, February 27 (accessed). Overview: Diesel Exhaust & Health. https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health.

———. 2025c, February 27 (accessed). Common Air Pollutants. https://ww2.arb.ca.gov/resources/common-air-pollutants.

———. 2025d, April 11 (accessed). Air Pollution Data Monitoring Cards (2021, 2022, and 2023). https://www.arb.ca.gov/adam/topfour/topfour1.php.

Intergovernmental Panel on Climate Change (IPCC). 2001. Third Assessment Report: Climate Change 2001. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/03/WGI_TAR_full_report.pdf.

———. 2007. Fourth Assessment Report: Climate Change 2007. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/ar4_syr_full_report.pdf.

———. 2013. Fifth Assessment Report: Climate Change 2013. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_all_final.pdf.

———. 2023. Sixth Assessment Report: Climate Change 2022. New York: Cambridge University Press. https://www.ipcc.ch/assessment-report/ar6/.

National Highway Traffic Safety Administration (NHTSA). 2022, April 1. USDOT Announces New Vehicle Fuel Economy Standards for Model year 2024-2026. https://www.nhtsa.gov/press-releases/usdot-announces-new-vehicle-fuel-economy-standards-model-year-2024-2026.

———. 2024, June 7. Corporate Average Fuel Economy, NHTSA Announces New Proposal for CAFE and HDPUV Standards. https://www.nhtsa.gov/laws-regulations/corporate-average-fuel-economy.

Southern California Association of Governments (SCAG). 2024. Connect SoCal Plan: The 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) of the Southern California Association of Governments. https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx.

South Coast Air Quality Management District (South Coast AQMD). 1992. Federal Attainment Plan for Carbon Monoxide.

———. 1993. California Environmental Quality Act Air Quality Handbook.

———. 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

———. 2008, July. Final Localized Significance Threshold Methodology. https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf.

———. 2010, September 28. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-

ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf.

———. 2011. Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf.

———. 2012, May 4. Final 2012 Lead State Implementation Plan: Los Angeles County. http://www3.aqmd.gov/hb/attachments/2011-2015/2012May/2012-May4-030.pdf.

———. 2015a. Health Effects of Air Pollution. http://www.aqmd.gov/docs/default-source/publications/brochures/the-health-effects-of-air-pollution-brochure.pdf.

———. 2015b, October. "Blueprint for Clean Air: 2016 AQMP White Paper." 2016 AQMP White Papers Web Page. https://www.aqmd.gov/docs/default-source/Agendas/aqmp/white-paper-working-groups/wp-blueprint-final.pdf?sfvrsn=2.

———. 2021a, October. Draft Final 2021 Redesignation Request and Maintenance Plan for the 2006 and 1997 24-Hour PM2.5 Standards for South Coast Air Basin. https://ww2.arb.ca.gov/sites/default/files/2021-10/draft-final-pm2-5-redesignation-request-and-maintenance-plan.pdf.

———. 2021b, August. Final Report, Multiple Air Toxics Exposure Study V (MATES V). http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v.

———. 2022, December. Final 2022 Air Quality Management Plan. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/final-2022-aqmp/final-2022-aqmp.pdf?sfvrsn=16.

———. 2023, March (revised). South Coast AQMD Air Quality Significance Thresholds. https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25.

———. 2024, November 6. Cumulative Impacts from Air Toxics for CEQA Projects. Working Group Meeting #6. https://www.aqmd.gov/docs/default-source/ceqa/documents/wgm-6-20241106.pdf?sfvrsn=405a8561_13.

USA.Com. 2025, April 11 (accessed). Tustin, CA Weather. http://www.usa.com/tustin-ca-weather.htm.

US Environmental Protection Agency (USEPA). 2009, December. EPA: Greenhouse Gases Threaten Public Health and the Environment. Science overwhelmingly shows greenhouse gas concentrations at unprecedented levels due to human activity. https://archive.epa.gov/epapages/newsroom_archive/newsreleases/08d11a451131bca585257685005bf252.html.

———. 2025a, January 8 (updated). Criteria Air Pollutants. https://www.epa.gov/criteria-air-pollutants.

———. 2025b, February 25 (updated). Health and Environmental Effects of Hazardous Air Pollutants. https://www.epa.gov/haps/health-and-environmental-effects-hazardous-air-pollutants.

Assumptions Worksheet

CalEEMod Inputs - Tustin USD Education Center Project, Construction

Name:	Tustin USD Education Center Project
Project Number:	TSD-21
Project Location:	Northeast corner of Legacy Road and Valencia Avenue in Tustin, CA
County/Air Basin:	South Coast
Climate Zone:	8
Land Use Setting:	Urban
Gas Utility Company:	Southern California Gas
Electric Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	19 - Saddleback Valley

Project Site Acreage	8.51
Disturbed Site Acreage	6.19

Project Components	SQFT	Tons
Demolition		
Asphalt Demolition	600	9
	TOTAL TONS	**9**

	Number of Stories	Gross SQFT	Building Footprint	Acres
Building Construction				
New Education Center Building	1	44,945	44,945	1.03
Onsite Surface Work	**Number of Stalls**	**Gross SQFT**	**Building Footprint**	**Acres**
Landscaping	NA	75,660	NA	1.74
Secured Parking Lot	108	36,209	NA	0.83
Public Parking Lot	148	64,684	NA	1.48
Non-Asphalt Surfaces	NA	48,000	NA	1.10
			TOTAL ACREAGE	**6.19**

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet	Landscape Area Square Feet	Special Landscape Area Square Feet
Commercial	General Office Building	44.95	1000 sqft	2.77	44,945	75,660	0
Parking	Parking Lot	100.89	1000 sqft	2.32	100,893	0	0
Parking	Other Non-Asphalt Surfaces	48.00	1000 sqft	1.10	48,000	0	0
				6.19			

Notes:

[1] General Office Building land use represents the new education center building square footage.

[2] Parking Lot land use represents the secured and public parking lot square footage.

Demolition

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (Tons per truck)[1]	Haul Distance (miles)[1]	Total Trip Ends	Duration (days)	Trip Ends/Day
Asphalt Demolition Debris Haul (Tons)	9	8	20	4	3	1

Notes:

[1] CalEEMod default used.

Architectural Coating

	Percent Painted[1]	
Interior Painted:	70%	
Exterior Painted:	63%	

SCAQMD Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter
Parking Paing VOC content:	100	grams per liter

Notes:

[1] Provided by District.

Structures	Land Use Square Feet	CalEEMod Factor[2,3]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Non-Residential Structures					
New Education Center Building	44,945	2.0	89,890	62,923	56,873
				62,923	**56,873**
Parking					
Other Non-Asphalt Surfaces	148,893	6%	8,934	-	8,934
					8,934

Notes:

[1] District provided percentage of paintable interior and exterior areas for the new education center building.

[2] The program assumes the total surface for painting equals 2 times the floor square footage for nonresidential square footage defined by the user.

[3] CalEEmod default assumes 6% of all parking land uses will be striped.

CalEEMod Construction Measures

SCAQMD Rule 403	Water Exposed Surfaces	Frequency per day:	2	
		PM10:	55	% Reduction
		PM2.5:	55	% Reduction
Unpaved Roads		Vehicle Speed:	25	mph
		PM10:	44	% Reduction
		PM25:	44	% Reduction
SCAQMD Rule 1186	Sweep Paved Roads	PM10:	9	% Reduction
		PM25:	9	% Reduction

Southern California Edison Carbon Intensity Factors

	Forecasted Factors 2028[1]	
CO2:	346.20	pounds per megawatt hour
CH4:	0.033	pound per megawatt hour
N2O:	0.004	pound per megawatt hour

Notes:

[1] CalEEMod default values.

Pavement Volume to Weight Conversion

Component	Total SF of Area[1]	Assumed Thickness (foot)[2]	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[3]	AC Mass (lbs)	AC Mass (tons)
Asphalt Demolition	600	0.333	200	89	17,778	8.89
Total	600					9

[1] Asphalt demolition SQFT provided by District.

[2] Gibbons, Jim. 1999. Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut Cooperative Extension System. https://www.uni-groupusa.org/PDF/NEMO_tech_8.pdf

[3] CalRecycle. 2019. Solid Waste Cleanup Program Weights and Volumes for Project Estimates.

Construction Activities and Schedule Assumptions

***District provided preliminary construction timing from July 2026 to January 2028.**

CalEEMod Construction Schedule				
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Demolition	Demolition	7/8/2026	7/17/2026	8
Demolition Debris Haul	Demolition	7/15/2026	7/17/2026	3
Site Preparation	Site Preparation	7/14/2026	8/12/2026	22
Rough Grading	Grading	8/4/2026	9/15/2026	31
Fine Grading	Grading	3/5/2027	3/25/2027	15
Utility Trenching	Trenching	9/14/2026	10/12/2026	21
Building Construction	Building Construction	10/13/2026	1/1/2028	319
Paving	Paving	7/2/2027	8/25/2027	39
Architectural Coating	Architectural Coating	5/28/2027	6/28/2027	22
Finishing/Landscaping	Trenching	6/4/2027	8/13/2027	51

Overlapping Construction Schedule			
Construction Activities	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Demolition	7/8/2026	7/13/2026	4
Demolition and Site Preparation	7/14/2026	7/14/2026	1
Demolition, Site Preparation, and Demolition Debris Haul	7/15/2026	7/17/2026	3
Site Preparation	7/18/2026	8/3/2026	11
Site Preparation and Rough Grading	8/4/2026	8/12/2026	7
Rough Grading	8/13/2026	9/13/2026	22
Rough Grading and Utility Trenching	9/14/2026	9/15/2026	2
Utility Trenching	9/16/2026	10/12/2026	19
Building Construction	10/13/2026	3/4/2027	103
Building Construction and Fine Grading	3/5/2027	3/25/2027	15
Building Construction	3/26/2027	5/27/2027	45
Building Construction and Architectural Coating	5/28/2027	6/3/2027	5
Building Construction, Architectural Coating, and Finishing/Landscaping	6/4/2027	6/28/2027	17
Building Construction and Finishing/Landscaping	6/29/2027	7/1/2027	3
Building Construction, Finishing/Landscaping, and Paving	7/2/2027	8/13/2027	31
Building Construction and Paving	8/14/2027	8/25/2027	8
Building Construction	8/26/2027	1/1/2028	92

CalEEMod Construction Off-Road Equipment Inputs

Where information has not been provided, CalEEMod default equipment, worker, and vendor trips have been used.

	Construction Equipment Details[1]			
	CalEEMod Equipment	**# of Equipment**	**hr/day**	**total trips per day**
Demolition				
	Concrete/Industrial Saws	1	8	
	Excavators	3	8	
	Rubber Tired Dozers	2	8	
	Worker Trips			15
	Vendor Trips			2
	Hauling Trips			0
	Water Trucks (added to Vendor Trips)	Acres Disturbed Per Day:	1	6
		Onsite Travel (mi/day):	0.83	
	Modified Vendor Trips			8
Demolition Debris Haul				
	No equipment required for haul phase			
	Worker Trips			0
	Vendor Trips			0
	Hauling Trips			1
Site Preparation				
	Rubber Tired Dozers	3	8	
	Tractors/Loaders/Backhoes	4	8	
	Worker Trips			18
	Vendor Trips			1
	Hauling Trips			0
	Water Trucks (added to Vendor Trips)	Acres Disturbed Per Day:	3.5	18
		Onsite Travel (mi/day):	2.89	
	Modified Vendor Trips			19
Rough Grading				
	Excavators	1	8	
	Graders	1	8	
	Rubber Tired Dozers	1	8	
	Tractors/Loaders/Backhoes	3	8	
	Worker Trips			15
	Vendor Trips			3
	Hauling Trips			0
	Water Trucks (added to Vendor Trips)	Acres Disturbed Per Day:	2.5	14
		Onsite Travel (mi/day):	2.06	
	Modified Vendor Trips			17
Fine Grading				
	Excavators	1	8	
	Graders	1	8	
	Rubber Tired Dozers	1	8	
	Worker Trips			15
	Vendor Trips			3
	Hauling Trips			0
	Water Trucks (added to Vendor Trips)	Acres Disturbed Per Day:	2.5	14
		Onsite Travel (mi/day):	2.06	
	Modified Vendor Trips			17
Utility Trenching				
	Equipment accounted for in Rough Grading phase			
	Worker Trips			0
	Vendor Trips			0
	Hauling Trips			0

Building Construction				
	Cranes	1	7	
	Forklifts	3	8	
	Generator Sets	1	8	
	Tractors/Loaders/Backhoes	3	7	
	Welders	1	8	
	Worker Trips			14
	Vendor Trips			7
	Hauling Trips			0
Paving				
	Pavers	2	8	
	Paving Equipment	2	8	
	Rollers	2	8	
	Worker Trips			15
	Vendor Trips			2
	Hauling Trips			0
Architectural Coating				
	Air Compressors	1	6	
	Worker Trips			3
	Vendor Trips			0
	Hauling Trips			0
Finishing/Landscaping				
	Equipment accounted for in Building Construction phase			
	Worker Trips			0
	Vendor Trips			0
	Hauling Trips			0

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day)[1]	Water Truck Capacity (gallons)[2]
10,000	4,000

Notes:

[1] *Based on data provided in Guidance for Application for Dust Control Permit*
Maricopa County Air Quality Department. 2005, June. Guidance for Application of Dust Control Permit. https://www.epa.gov/sites/default/files/2019-

[2] *Based on standard water truck capacity:*
McLellan Industries. 2025, January (access). Water Trucks. https://www.mclellanindustries.com/trucks/water-trucks/

[3] *Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.*

CalEEMod Inputs - Tustin USD Education Center Project, Operation

Name: Tustin USD Education Center Project
Project Number: TSD-21
Project Location: Northeast corner of Legacy Road and Valencia Avenue in Tustin, CA
County/Air Basin: South Coast
Climate Zone: 8
Land Use Setting: Urban
Gas Utility Company: Southern California Gas
Electric Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 19 - Saddleback Valley

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet	Landscape Area Square Feet	Special Landscape Area Square Feet
Commercial	General Office Building	44.95	1000 sqft	2.77	44,945	75,660	0
Parking	Parking Lot	100.89	1000 sqft	2.32	100,893	0	0
Parking	Other Non-Asphalt Surfaces	48.00	1000 sqft	1.10	48,000	0	0
				6.19			

Project Trips [1]

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip Rate
General Office Building	646	**14.37**	0	**0.00**	0	**0.00**

Source: DJ&A, 2025.

Notes:

[1] No trips on weekend as no events would occur on the weekends and the education center would operate on weekdays.

Water Use (CalEEMod default)

	Indoor (gals/year)	Outdoor (gals/year)	Total
General Office Building	7,989,132	980,582	8,969,714

Notes:

[1] Assumes 100% aerobic treatment.

Solid Waste (CalEEMod default)

Land Use	Total Solid Waste (tons/year)
General Office Building	41.80

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBTU/year)	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
General Office Building	800,932.76	1,139,196.98	**648,101.96**	**902,339.72**	152,830.80	236,857.26
Parking Lot	88,379.64	0.00	**88,379.64**	**0.00**	0.00	0.00

Emergency Generators and Fire Pumps (Stationary Sources)

Equipment Type	Fuel Type	Horsepower	Load Factor	# Per Day	Hours Per Day	Hours Per Year
Emergency Generator	Diesel	600	0.73	1	1	12

Notes:

[1] The emergency generator is anticipated to operate for approximately one per day, one day per month, for routine testing and maintenance, or as needed during emergencies.

Architectural Coating (see Construction Tab)

Changes to the CalEEMod Defaults - Fleet Mix 2028

					Trips	646								
Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default)	0.58708638	49.23862815	3.932636231	23.79876077	2.807517722	0.743602403	2.235405892	14.5522669	0.351115805	1.561291143	0.059783302	0.0965057	0.035399501	
FleetMix (Model Default) adjusted	0.005870864	0.492386281	0.039326362	0.237987608	0.028075177	0.007436024	0.022354059	0.145522669	0.003511158	0.015612911	0.000597833	0.000965057	0.000353995	100%
Trips	4	318	25	154	18	5	14	94	2	10	0	1	0	646
Percent		79%			6%			15%						100%
without buses/MH	0.005871	0.492386	0.039326	0.237988	0.028075	0.007436	0.022354	0.145523	0.003511	0.015613	0	0.000965	0	100%
Percent		79%			6%			15%						100%
Adjusted without buses/MH	0.005962	0.492386	0.039326	0.237988	0.028510	0.007551	0.022700	0.145523	0.003566	0.015855	0.000000	0.000980	0.000000	
Percent adjusted		79%			6%			15%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
	0.000955	0.602744	0.048141	0.291327	0.004567	0.001210	0.027788	0.020000	0.000571	0.002540	0.000000	0.000157	0.000000	100%
adjusted with Assumed	**0.095506**	**60.274410**	**4.814052**	**29.132742**	**0.456721**	**0.120968**	**2.778795**	**2.000000**	**0.057119**	**0.253987**	**0.000000**	**0.015699**	**0.000000**	
Percent Check:		97%			1%			2%						

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

CalEEMod Construction and Operation Model

Tustin USD Education Center Project Custom Report

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3.7. Rough Grading (2026) - Unmitigated

3.9. Fine Grading (2027) - Unmitigated

3.11. Building Construction (2026) - Unmitigated

3.13. Building Construction (2027) - Unmitigated

3.15. Building Construction (2028) - Unmitigated

3.17. Paving (2027) - Unmitigated

3.19. Architectural Coating (2027) - Unmitigated

3.21. Utility Trenching (2026) - Unmitigated

3.23. Finishing/Landscaping (2027) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tustin USD Education Center Project
Construction Start Date	7/8/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.6
Location	33.711133028379905, -117.82050159441391
County	Orange
City	Tustin
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6824
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	45.0	1000sqft	2.77	44,945	75,660	0.00	—	—

Parking Lot	101	1000sqft	2.32	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	48.0	1000sqft	1.10	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.9	15.7	50.7	49.5	0.09	2.09	29.1	31.0	1.92	13.8	15.6	—	9,762	9,762	0.40	0.20	3.30	9,831
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.26	2.71	24.4	31.5	0.05	0.94	8.28	9.22	0.86	3.61	4.47	—	6,198	6,198	0.25	0.13	0.06	6,244
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.00	1.82	8.28	11.6	0.02	0.30	1.99	2.19	0.28	0.93	1.12	—	2,262	2,262	0.09	0.04	0.31	2,276
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.37	0.33	1.51	2.12	< 0.005	0.05	0.36	0.40	0.05	0.17	0.20	—	374	374	0.02	0.01	0.05	377

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.64	5.55	50.7	49.5	0.09	2.09	29.1	31.0	1.92	13.8	15.6	—	9,762	9,762	0.40	0.20	3.30	9,831
2027	15.9	15.7	16.6	24.1	0.04	0.64	0.33	0.97	0.59	0.08	0.67	—	4,399	4,399	0.17	0.07	1.37	4,426
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.34	1.12	10.1	13.6	0.02	0.38	0.18	0.56	0.35	0.04	0.39	—	2,702	2,702	0.11	0.05	0.02	2,720
2027	3.26	2.71	24.4	31.5	0.05	0.94	8.28	9.22	0.86	3.61	4.47	—	6,198	6,198	0.25	0.13	0.06	6,244
2028	1.24	1.03	9.15	13.5	0.02	0.30	0.18	0.48	0.28	0.04	0.32	—	2,691	2,691	0.11	0.05	0.02	2,708
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.68	0.56	5.15	5.90	0.01	0.21	1.99	2.19	0.19	0.93	1.12	—	1,162	1,162	0.05	0.02	0.17	1,170
2027	2.00	1.82	8.28	11.6	0.02	0.30	0.48	0.78	0.28	0.18	0.46	—	2,262	2,262	0.09	0.04	0.31	2,276
2028	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.12	0.10	0.94	1.08	< 0.005	0.04	0.36	0.40	0.03	0.17	0.20	—	192	192	0.01	< 0.005	0.03	194
2027	0.37	0.33	1.51	2.12	< 0.005	0.05	0.09	0.14	0.05	0.03	0.08	—	374	374	0.02	0.01	0.05	377
2028	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.44	3.25	1.16	17.4	0.04	0.04	3.82	3.86	0.04	0.97	1.01	39.6	4,731	4,771	2.58	0.15	9.65	4,889
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.09	2.92	1.23	14.5	0.03	0.04	3.82	3.86	0.04	0.97	1.00	39.6	4,563	4,603	2.59	0.16	0.36	4,714
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.74	2.60	0.98	12.0	0.03	0.04	2.69	2.73	0.04	0.68	0.72	39.6	3,657	3,697	2.54	0.13	3.05	3,801
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.47	0.18	2.19	< 0.005	0.01	0.49	0.50	0.01	0.12	0.13	6.56	605	612	0.42	0.02	0.51	629

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.00	1.85	0.83	15.2	0.03	0.02	3.82	3.84	0.02	0.97	0.98	—	3,458	3,458	0.15	0.10	9.54	3,501
Area	1.41	1.38	0.02	1.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.04	8.04	< 0.005	< 0.005	—	8.07
Energy	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,209	1,209	0.11	0.01	—	1,215
Water	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Waste	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	3.44	3.25	1.16	17.4	0.04	0.04	3.82	3.86	0.04	0.97	1.01	39.6	4,731	4,771	2.58	0.15	9.65	4,889
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.99	1.84	0.92	14.2	0.03	0.02	3.82	3.84	0.02	0.97	0.98	—	3,298	3,298	0.16	0.11	0.25	3,334
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,209	1,209	0.11	0.01	—	1,215
Water	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Waste	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

Total	3.09	2.92	1.23	14.5	0.03	0.04	3.82	3.86	0.04	0.97	1.00	39.6	4,563	4,603	2.59	0.16	0.36	4,714
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.41	1.30	0.67	10.4	0.02	0.01	2.69	2.71	0.01	0.68	0.69	—	2,387	2,387	0.11	0.08	2.94	2,415
Area	1.30	1.28	0.01	1.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.51	5.51	< 0.005	< 0.005	—	5.53
Energy	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,209	1,209	0.11	0.01	—	1,215
Water	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Waste	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	2.74	2.60	0.98	12.0	0.03	0.04	2.69	2.73	0.04	0.68	0.72	39.6	3,657	3,697	2.54	0.13	3.05	3,801
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.26	0.24	0.12	1.89	< 0.005	< 0.005	0.49	0.49	< 0.005	0.12	0.13	—	395	395	0.02	0.01	0.49	400
Area	0.24	0.23	< 0.005	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.91	0.91	< 0.005	< 0.005	—	0.91
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	200	200	0.02	< 0.005	—	201
Water	—	—	—	—	—	—	—	—	—	—	—	2.83	9.36	12.2	0.01	0.01	—	14.3
Waste	—	—	—	—	—	—	—	—	—	—	—	3.73	0.00	3.73	0.37	0.00	—	13.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.50	0.47	0.18	2.19	< 0.005	0.01	0.49	0.50	0.01	0.12	0.13	6.56	605	612	0.42	0.02	0.51	629

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.31	0.31	< 0.005	0.03	0.03	—	4.37	4.37	< 0.005	< 0.005	0.01	4.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.4
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.59	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	140	140	< 0.005	0.01	0.48	142
Vendor	0.02	< 0.005	0.21	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	193	193	0.01	0.03	0.49	201
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.96	2.96	< 0.005	< 0.005	< 0.005	3.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	< 0.005	4.41
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.50
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Demolition Debris Haul (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	68.5	68.5	0.01	0.01	0.14	72.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10

3.5. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.07	1.07	< 0.005	0.11	0.11	—	11.3	11.3	< 0.005	< 0.005	0.02	11.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.76	1.74	< 0.005	0.07	—	0.07	0.07	—	0.07	—	319	319	0.01	< 0.005	—	320
Dust From Material Movement	—	—	—	—	—	—	1.18	1.18	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.9	52.9	< 0.005	< 0.005	—	53.0
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.69	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	163	163	< 0.005	0.01	0.56	166
Vendor	0.04	0.01	0.50	0.26	< 0.005	< 0.005	0.12	0.13	< 0.005	0.03	0.04	—	457	457	0.02	0.06	1.17	478
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.50	9.50	< 0.005	< 0.005	0.01	9.63
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.6	27.6	< 0.005	< 0.005	0.03	28.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.56	4.56	< 0.005	< 0.005	0.01	4.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Rough Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.96	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	7.08	7.08	—	3.42	3.42	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	—	8.49	8.49	< 0.005	< 0.005	0.01	8.94
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.27	1.48	< 0.005	0.05	—	0.05	0.05	—	0.05	—	251	251	0.01	< 0.005	—	252
Dust From Material Movement	—	—	—	—	—	—	0.60	0.60	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.76
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.6	41.6	< 0.005	< 0.005	—	41.8
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.59	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	140	140	< 0.005	0.01	0.48	142
Vendor	0.04	0.01	0.45	0.23	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	409	409	0.02	0.06	1.05	428
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.8	34.8	< 0.005	< 0.005	0.04	36.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.93
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.75	5.75	< 0.005	< 0.005	0.01	6.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Fine Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.89	1.59	14.2	17.3	0.03	0.60	—	0.60	0.55	—	0.55	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	7.08	7.08	—	3.42	3.42	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	—	8.36	8.36	< 0.005	< 0.005	< 0.005	8.79
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	122	122	< 0.005	< 0.005	—	122
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.03	0.01	0.45	0.23	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	402	402	0.02	0.05	0.02	419
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	0.01	5.53
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.5	16.5	< 0.005	< 0.005	0.02	17.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.73	2.73	< 0.005	< 0.005	< 0.005	2.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.54	2.03	< 0.005	0.06	—	0.06	0.05	—	0.05	—	375	375	0.02	< 0.005	—	377
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	62.1	62.1	< 0.005	< 0.005	—	62.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.50	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	< 0.005	0.01	0.01	129
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	177	177	0.01	0.03	0.01	185
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.03	20.6
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.8	27.8	< 0.005	< 0.005	0.03	29.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.36	3.36	< 0.005	< 0.005	0.01	3.40
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.60	4.60	< 0.005	< 0.005	0.01	4.80
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.53	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	132	132	< 0.005	0.01	0.42	134
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	174	174	0.01	0.02	0.41	182
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.47	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	126	126	< 0.005	0.01	0.01	127
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	174	174	0.01	0.02	0.01	181
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.35	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.0	91.0	< 0.005	< 0.005	0.13	92.2
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	124	124	0.01	0.02	0.13	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.6	20.6	< 0.005	< 0.005	0.02	21.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.69	4.69	< 0.005	< 0.005	—	4.71
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.78	0.78	< 0.005	< 0.005	—	0.78
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
Vendor	0.01	< 0.005	0.19	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	170	170	0.01	0.02	0.01	177

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.09	0.08	0.74	1.06	< 0.005	0.03	—	0.03	0.03	—	0.03	—	161	161	0.01	< 0.005	—	162
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.14	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.56	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.43	140
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.2	47.2	< 0.005	0.01	0.11	49.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	0.01	5.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	14.5	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Architectural Coatings	0.87	0.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.33	1.33	< 0.005	< 0.005	—	1.34
Architectural Coatings	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.4	26.4	< 0.005	< 0.005	0.08	26.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Utility Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Finishing/Landscaping (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	2.00	1.85	0.83	15.2	0.03	0.02	3.82	3.84	0.02	0.97	0.98	—	3,458	3,458	0.15	0.10	9.54	3,501
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.00	1.85	0.83	15.2	0.03	0.02	3.82	3.84	0.02	0.97	0.98	—	3,458	3,458	0.15	0.10	9.54	3,501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	1.99	1.84	0.92	14.2	0.03	0.02	3.82	3.84	0.02	0.97	0.98	—	3,298	3,298	0.16	0.11	0.25	3,334
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.99	1.84	0.92	14.2	0.03	0.02	3.82	3.84	0.02	0.97	0.98	—	3,298	3,298	0.16	0.11	0.25	3,334
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.26	0.24	0.12	1.89	< 0.005	< 0.005	0.49	0.49	< 0.005	0.12	0.13	—	395	395	0.02	0.01	0.49	400
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.26	0.24	0.12	1.89	< 0.005	< 0.005	0.49	0.49	< 0.005	0.12	0.13	—	395	395	0.02	0.01	0.49	400

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	760	760	0.07	0.01	—	764
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	83.8	83.8	0.01	< 0.005	—	84.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	843	843	0.08	0.01	—	848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	760	760	0.07	0.01	—	764
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	83.8	83.8	0.01	< 0.005	—	84.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	843	843	0.08	0.01	—	848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	126	126	0.01	< 0.005	—	127
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	13.9	13.9	< 0.005	< 0.005	—	14.0
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	140

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	365	365	0.03	< 0.005	—	366
Parking Lot	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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	365	365	0.03	< 0.005	—	366
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	365	365	0.03	< 0.005	—	366
Parking Lot	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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	365	365	0.03	< 0.005	—	366
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	0.01	< 0.005	—	60.6
Parking Lot	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

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	0.01	< 0.005	—	60.6

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.32	0.02	1.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.04	8.04	< 0.005	< 0.005	—	8.07
Total	1.41	1.38	0.02	1.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.04	8.04	< 0.005	< 0.005	—	8.07
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.18	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.04	< 0.005	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.91	0.91	< 0.005	< 0.005	—	0.91
Total	0.24	0.23	< 0.005	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.91	0.91	< 0.005	< 0.005	—	0.91

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.1	56.5	73.6	0.06	0.04	—	86.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.83	9.36	12.2	0.01	0.01	—	14.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.83	9.36	12.2	0.01	0.01	—	14.3

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.5	0.00	22.5	2.25	0.00	—	78.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.73	0.00	3.73	0.37	0.00	—	13.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.73	0.00	3.73	0.37	0.00	—	13.1

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/8/2026	7/17/2026	5.00	8.00	—
Demolition Debris Haul	Demolition	7/15/2026	7/17/2026	5.00	3.00	—
Site Preparation	Site Preparation	7/14/2026	8/12/2026	5.00	22.0	—
Rough Grading	Grading	8/4/2026	9/15/2026	5.00	31.0	—
Fine Grading	Grading	3/5/2027	3/25/2027	5.00	15.0	—
Building Construction	Building Construction	10/13/2026	1/1/2028	5.00	319	—
Paving	Paving	7/2/2027	8/25/2027	5.00	39.0	—
Architectural Coating	Architectural Coating	5/28/2027	6/28/2027	5.00	22.0	—
Utility Trenching	Trenching	9/14/2026	10/12/2026	5.00	21.0	—
Finishing/Landscaping	Trenching	6/4/2027	8/13/2027	5.00	51.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Rough Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Rough Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Rough Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rough Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Fine Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Fine Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Fine Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	13.2	LDA,LDT1,LDT2
Demolition	Vendor	8.00	7.75	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	1.00	0.83	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	13.2	LDA,LDT1,LDT2
Site Preparation	Vendor	19.0	7.75	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	2.89	HHDT
Rough Grading	—	—	—	—
Rough Grading	Worker	15.0	13.2	LDA,LDT1,LDT2
Rough Grading	Vendor	17.0	7.75	HHDT,MHDT
Rough Grading	Hauling	0.00	20.0	HHDT
Rough Grading	Onsite truck	1.00	2.06	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	14.4	13.2	LDA,LDT1,LDT2
Building Construction	Vendor	7.37	7.75	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	13.2	LDA,LDT1,LDT2

Paving	Vendor	2.00	7.75	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	2.88	13.2	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	7.75	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Demolition Debris Haul	—	—	—	—
Demolition Debris Haul	Worker	0.00	13.2	LDA,LDT1,LDT2
Demolition Debris Haul	Vendor	0.00	7.75	HHDT,MHDT
Demolition Debris Haul	Hauling	1.00	20.0	HHDT
Demolition Debris Haul	Onsite truck	0.00	0.00	HHDT
Fine Grading	—	—	—	—
Fine Grading	Worker	15.0	13.2	LDA,LDT1,LDT2
Fine Grading	Vendor	17.0	7.75	HHDT,MHDT
Fine Grading	Hauling	0.00	20.0	HHDT
Fine Grading	Onsite truck	1.00	2.06	HHDT
Utility Trenching	—	—	—	—
Utility Trenching	Worker	0.00	13.2	LDA,LDT1,LDT2
Utility Trenching	Vendor	0.00	7.75	HHDT,MHDT
Utility Trenching	Hauling	0.00	20.0	HHDT
Utility Trenching	Onsite truck	0.00	0.00	HHDT
Finishing/Landscaping	—	—	—	—
Finishing/Landscaping	Worker	0.00	13.2	LDA,LDT1,LDT2
Finishing/Landscaping	Vendor	0.00	7.75	HHDT,MHDT
Finishing/Landscaping	Hauling	0.00	20.0	HHDT
Finishing/Landscaping	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	62,923	56,873	8,934

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Demolition Debris Haul	0.00	0.00	0.00	9.00	—
Site Preparation	0.00	0.00	33.0	0.00	—
Rough Grading	0.00	0.00	31.0	0.00	—
Fine Grading	0.00	0.00	15.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Parking Lot	2.32	100%
Other Non-Asphalt Surfaces	1.10	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	646	0.00	0.00	168,404	5,456	0.00	0.00	1,422,528
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	62,923	56,873	8,934

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	800,933	346	0.0330	0.0040	1,139,197
Parking Lot	88,380	346	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	7,989,132	980,582
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	41.8	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Land Use	Based on District information, see assumptions file
Construction: Construction Phases	Based on District information, see assumptions file
Construction: Off-Road Equipment	No equipment required for hauling phase, equipment for utility trenching and finishing/landscaping phases accounted for during overlap of construction phases
Construction: Architectural Coatings	SCAQMD Rule 1113, District provided percentage of paintable interior and exterior areas for the new education center building, see assumptions file
Operations: Fleet Mix	Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.
Operations: Vehicle Data	Based on traffic trips provided by DJ&A
Operations: Architectural Coatings	SCAQMD Rule 1113, District provided percentage of paintable interior and exterior areas for the new education center building, see assumptions file
Operations: Water and Waste Water	Assume 100 percent aerobic treatment

CalEEMod Model –

Emergency Generator

Tustin USD Education Center Project - Generator Custom Report

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8. User Changes to Default Data

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tustin USD Education Center Project - Generator
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.5
Precipitation (days)	19
Location	33.71346065502382, -117.8275142813211
County	Orange
City	Tustin
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6824
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	0.00	1000sqft	0.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.03	0.09	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	17	17	< 0.005	< 0.005	0.00	17
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	2.7	2.7	< 0.005	< 0.005	0.00	2.8

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Area	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
Energy	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
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Stationary	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Total	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	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
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Stationary	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Total	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	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
Energy	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
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Stationary	0.04	0.03	0.09	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	17	17	< 0.005	< 0.005	0.00	17
Total	0.04	0.03	0.09	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	17	17	< 0.005	< 0.005	0.00	17

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	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
Energy	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
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Stationary	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	2.7	2.7	< 0.005	< 0.005	0.00	2.8
Total	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	2.7	2.7	< 0.005	< 0.005	0.00	2.8

4. Operations Emissions Details

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Total	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Total	1.1	0.98	2.8	2.5	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	2.7	2.7	< 0.005	< 0.005	0.00	2.8
Total	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	2.7	2.7	< 0.005	< 0.005	0.00	2.8

5. Activity Data

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	1.00	12	600	0.73

5.16.2. Process Boilers

5.17. User Defined

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Separate model run to include emergency diesel generator

CalEEMod Mitigated Construction Model

Tustin USD Education Center Project Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tustin USD Education Center Project
Construction Start Date	7/8/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.6
Location	33.711133028379905, -117.82050159441391
County	Orange
City	Tustin
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6824
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	45.0	1000sqft	2.77	44,945	75,660	0.00	—	—

Parking Lot	101	1000sqft	2.32	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	48.0	1000sqft	1.10	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-9	Use Dust Suppressants
Construction	C-10-A	Water Exposed Surfaces

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.9	15.7	50.7	49.5	0.09	2.09	29.1	31.0	1.92	13.8	15.6	—	9,762	9,762	0.40	0.20	3.30	9,831
Mit.	15.9	15.7	50.7	49.5	0.09	2.09	7.78	9.68	1.92	3.68	5.43	—	9,762	9,762	0.40	0.20	3.30	9,831
% Reduced	—	—	—	—	—	—	73%	69%	—	73%	65%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.26	2.71	24.4	31.5	0.05	0.94	8.28	9.22	0.86	3.61	4.47	—	6,198	6,198	0.25	0.13	0.06	6,244
Mit.	3.26	2.71	24.4	31.5	0.05	0.94	2.40	3.33	0.86	1.01	1.87	—	6,198	6,198	0.25	0.13	0.06	6,244
% Reduced	—	—	—	—	—	—	71%	64%	—	72%	58%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	2.00	1.82	8.28	11.6	0.02	0.30	1.99	2.19	0.28	0.93	1.12	—	2,262	2,262	0.09	0.04	0.31	2,276
Mit.	2.00	1.82	8.28	11.6	0.02	0.30	0.56	0.76	0.28	0.25	0.45	—	2,262	2,262	0.09	0.04	0.31	2,276
% Reduced	—	—	—	—	—	—	72%	65%	—	73%	60%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.37	0.33	1.51	2.12	< 0.005	0.05	0.36	0.40	0.05	0.17	0.20	—	374	374	0.02	0.01	0.05	377
Mit.	0.37	0.33	1.51	2.12	< 0.005	0.05	0.10	0.14	0.05	0.05	0.08	—	374	374	0.02	0.01	0.05	377
% Reduced	—	—	—	—	—	—	72%	65%	—	73%	60%	—	—	—	—	—	—	—

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.64	5.55	50.7	49.5	0.09	2.09	7.78	9.68	1.92	3.68	5.43	—	9,762	9,762	0.40	0.20	3.30	9,831
2027	15.9	15.7	16.6	24.1	0.04	0.64	0.33	0.97	0.59	0.08	0.67	—	4,399	4,399	0.17	0.07	1.37	4,426
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.34	1.12	10.1	13.6	0.02	0.38	0.18	0.56	0.35	0.04	0.39	—	2,702	2,702	0.11	0.05	0.02	2,720
2027	3.26	2.71	24.4	31.5	0.05	0.94	2.40	3.33	0.86	1.01	1.87	—	6,198	6,198	0.25	0.13	0.06	6,244
2028	1.24	1.03	9.15	13.5	0.02	0.30	0.18	0.48	0.28	0.04	0.32	—	2,691	2,691	0.11	0.05	0.02	2,708
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.68	0.56	5.15	5.90	0.01	0.21	0.56	0.76	0.19	0.25	0.45	—	1,162	1,162	0.05	0.02	0.17	1,170
2027	2.00	1.82	8.28	11.6	0.02	0.30	0.24	0.54	0.28	0.08	0.35	—	2,262	2,262	0.09	0.04	0.31	2,276
2028	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.12	0.10	0.94	1.08	< 0.005	0.04	0.10	0.14	0.03	0.05	0.08	—	192	192	0.01	< 0.005	0.03	194
2027	0.37	0.33	1.51	2.12	< 0.005	0.05	0.04	0.10	0.05	0.01	0.06	—	374	374	0.02	0.01	0.05	377
2028	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88

3. Construction Emissions Details

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	0.01	—	4.37	4.37	< 0.005	< 0.005	0.01	4.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.4
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.59	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	140	140	< 0.005	0.01	0.48	142
Vendor	0.02	< 0.005	0.21	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	193	193	0.01	0.03	0.49	201
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.96	2.96	< 0.005	< 0.005	< 0.005	3.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	< 0.005	4.41
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.50
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Demolition Debris Haul (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	68.5	68.5	0.01	0.01	0.14	72.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10

3.6. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.17	0.17	< 0.005	0.02	0.02	—	11.3	11.3	< 0.005	< 0.005	0.02	11.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.76	1.74	< 0.005	0.07	—	0.07	0.07	—	0.07	—	319	319	0.01	< 0.005	—	320

Dust From Material Movement	—	—	—	—	—	—	0.31	0.31	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.9	52.9	< 0.005	< 0.005	—	53.0
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.69	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	163	163	< 0.005	0.01	0.56	166
Vendor	0.04	0.01	0.50	0.26	< 0.005	< 0.005	0.12	0.13	< 0.005	0.03	0.04	—	457	457	0.02	0.06	1.17	478
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.50	9.50	< 0.005	< 0.005	0.01	9.63
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.6	27.6	< 0.005	< 0.005	0.03	28.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.56	4.56	< 0.005	< 0.005	0.01	4.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Rough Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	8.49	8.49	< 0.005	< 0.005	0.01	8.94
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.27	1.48	< 0.005	0.05	—	0.05	0.05	—	0.05	—	251	251	0.01	< 0.005	—	252
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.6	41.6	< 0.005	< 0.005	—	41.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.59	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	140	140	< 0.005	0.01	0.48	142
Vendor	0.04	0.01	0.45	0.23	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	409	409	0.02	0.06	1.05	428
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.8	34.8	< 0.005	< 0.005	0.04	36.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.93
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.75	5.75	< 0.005	< 0.005	0.01	6.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Fine Grading (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.89	1.59	14.2	17.3	0.03	0.60	—	0.60	0.55	—	0.55	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	8.36	8.36	< 0.005	< 0.005	< 0.005	8.79
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	122	122	< 0.005	< 0.005	—	122
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.03	0.01	0.45	0.23	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	402	402	0.02	0.05	0.02	419
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	0.01	5.53
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.5	16.5	< 0.005	< 0.005	0.02	17.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.73	2.73	< 0.005	< 0.005	< 0.005	2.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.54	2.03	< 0.005	0.06	—	0.06	0.05	—	0.05	—	375	375	0.02	< 0.005	—	377
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	62.1	62.1	< 0.005	< 0.005	—	62.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.50	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	< 0.005	0.01	0.01	129
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	177	177	0.01	0.03	0.01	185

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.03	20.6
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.8	27.8	< 0.005	< 0.005	0.03	29.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.36	3.36	< 0.005	< 0.005	0.01	3.40
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.60	4.60	< 0.005	< 0.005	0.01	4.80
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.53	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	132	132	< 0.005	0.01	0.42	134
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	174	174	0.01	0.02	0.41	182
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.47	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	126	126	< 0.005	0.01	0.01	127
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	174	174	0.01	0.02	0.01	181
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.35	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.0	91.0	< 0.005	< 0.005	0.13	92.2
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	124	124	0.01	0.02	0.13	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.6	20.6	< 0.005	< 0.005	0.02	21.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.69	4.69	< 0.005	< 0.005	—	4.71
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.78	0.78	< 0.005	< 0.005	—	0.78

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
Vendor	0.01	< 0.005	0.19	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	170	170	0.01	0.02	0.01	177
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.74	1.06	< 0.005	0.03	—	0.03	0.03	—	0.03	—	161	161	0.01	< 0.005	—	162
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.14	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.56	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.43	140
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.2	47.2	< 0.005	0.01	0.11	49.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	0.01	5.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	14.5	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Architectural Coatings	0.87	0.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.33	1.33	< 0.005	< 0.005	—	1.34
Architectural Coatings	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.4	26.4	< 0.005	< 0.005	0.08	26.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.56

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Utility Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Finishing/Landscaping (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description

Demolition	Demolition	7/8/2026	7/17/2026	5.00	8.00	—
Demolition Debris Haul	Demolition	7/15/2026	7/17/2026	5.00	3.00	—
Site Preparation	Site Preparation	7/14/2026	8/12/2026	5.00	22.0	—
Rough Grading	Grading	8/4/2026	9/15/2026	5.00	31.0	—
Fine Grading	Grading	3/5/2027	3/25/2027	5.00	15.0	—
Building Construction	Building Construction	10/13/2026	1/1/2028	5.00	319	—
Paving	Paving	7/2/2027	8/25/2027	5.00	39.0	—
Architectural Coating	Architectural Coating	5/28/2027	6/28/2027	5.00	22.0	—
Utility Trenching	Trenching	9/14/2026	10/12/2026	5.00	21.0	—
Finishing/Landscaping	Trenching	6/4/2027	8/13/2027	5.00	51.0	—

5.2. Off-Road Equipment

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Rough Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Rough Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Rough Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rough Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Fine Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Fine Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Fine Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	13.2	LDA,LDT1,LDT2
Demolition	Vendor	8.00	7.75	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	1.00	0.83	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	13.2	LDA,LDT1,LDT2
Site Preparation	Vendor	19.0	7.75	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	2.89	HHDT
Rough Grading	—	—	—	—

Rough Grading	Worker	15.0	13.2	LDA,LDT1,LDT2
Rough Grading	Vendor	17.0	7.75	HHDT,MHDT
Rough Grading	Hauling	0.00	20.0	HHDT
Rough Grading	Onsite truck	1.00	2.06	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	14.4	13.2	LDA,LDT1,LDT2
Building Construction	Vendor	7.37	7.75	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	13.2	LDA,LDT1,LDT2
Paving	Vendor	2.00	7.75	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	2.88	13.2	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	7.75	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Demolition Debris Haul	—	—	—	—
Demolition Debris Haul	Worker	0.00	13.2	LDA,LDT1,LDT2
Demolition Debris Haul	Vendor	0.00	7.75	HHDT,MHDT
Demolition Debris Haul	Hauling	1.00	20.0	HHDT
Demolition Debris Haul	Onsite truck	0.00	0.00	HHDT
Fine Grading	—	—	—	—
Fine Grading	Worker	15.0	13.2	LDA,LDT1,LDT2
Fine Grading	Vendor	17.0	7.75	HHDT,MHDT
Fine Grading	Hauling	0.00	20.0	HHDT

Fine Grading	Onsite truck	1.00	2.06	HHDT
Utility Trenching	—	—	—	—
Utility Trenching	Worker	0.00	13.2	LDA,LDT1,LDT2
Utility Trenching	Vendor	0.00	7.75	HHDT,MHDT
Utility Trenching	Hauling	0.00	20.0	HHDT
Utility Trenching	Onsite truck	0.00	0.00	HHDT
Finishing/Landscaping	—	—	—	—
Finishing/Landscaping	Worker	0.00	13.2	LDA,LDT1,LDT2
Finishing/Landscaping	Vendor	0.00	7.75	HHDT,MHDT
Finishing/Landscaping	Hauling	0.00	20.0	HHDT
Finishing/Landscaping	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	62,923	56,873	8,934

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Demolition Debris Haul	0.00	0.00	0.00	9.00	—
Site Preparation	0.00	0.00	33.0	0.00	—
Rough Grading	0.00	0.00	31.0	0.00	—
Fine Grading	0.00	0.00	15.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.42

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Parking Lot	2.32	100%
Other Non-Asphalt Surfaces	1.10	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Land Use	Based on District information, see assumptions file
Construction: Construction Phases	Based on District information, see assumptions file
Construction: Off-Road Equipment	No equipment required for hauling phase, equipment for utility trenching and finishing/landscaping phases accounted for during overlap of construction phases
Construction: Architectural Coatings	SCAQMD Rule 1113, District provided percentage of paintable interior and exterior areas for the new education center building, see assumptions file
Operations: Fleet Mix	Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.
Operations: Vehicle Data	Based on traffic trips provided by DJ&A
Operations: Architectural Coatings	SCAQMD Rule 1113, District provided percentage of paintable interior and exterior areas for the new education center building, see assumptions file
Operations: Water and Waste Water	Assume 100 percent aerobic treatment

Emissions Worksheet

Unmitigated Regional Construction Emissions Worksheet:

3.1. Demolition (2026) - Unmitigated		ROG	NOx	CO	SO[2]	PM10 Total	PM2.5Total
Onsite		**Summer**					
	Off-Road Equipment	2.29	20.70	19.00	0.03	0.84	0.78
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.01	0.02	0.01	0.01	0.31	0.03
	Total	**2.30**	**20.72**	**19.01**	**0.04**	**1.15**	**0.81**
Offsite							
	Worker	0.05	0.04	0.59	0.00	0.14	0.03
	Vendor	0.01	0.21	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.25**	**0.70**	**0.01**	**0.19**	**0.05**
TOTAL		***2.35***	***20.97***	***19.71***	***0.04***	***1.34***	***0.86***

3.3. Demolition Debris Haul (2026) - Unmitigated		ROG	NOx	CO	SO[2]	PM10 Total	PM2.5Total
Onsite		**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.04	0.01
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.04**	**0.01**
Offsite							
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.01	0.08	0.04	0.01	0.02	0.01
	Total	**0.01**	**0.08**	**0.04**	**0.01**	**0.02**	**0.01**
TOTAL		***0.01***	***0.08***	***0.04***	***0.01***	***0.06***	***0.02***

3.5. Site Preparation (2026) - Unmitigated		ROG	NOx	CO	SO[2]	PM10 Total	PM2.5Total
Onsite		**Summer**					
	Off-Road Equipment	3.14	29.20	28.80	0.05	1.24	1.14
	Dust From Material Movement	0.00	0.00	0.00	0.00	19.70	10.10
	Onsite truck	0.01	0.02	0.01	0.01	1.07	0.11
	Total	**3.15**	**29.22**	**28.81**	**0.06**	**22.01**	**11.35**
Offsite							
	Worker	0.05	0.04	0.69	0.00	0.16	0.04
	Vendor	0.01	0.50	0.26	0.01	0.13	0.04
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.54**	**0.95**	**0.01**	**0.29**	**0.08**
TOTAL		***3.21***	***29.76***	***29.76***	***0.06***	***22.30***	***11.43***

3.7. Rough Grading (2026) - Unmitigated		ROG	NOx	CO	SO[2]	PM10 Total	PM2.5Total
Onsite		**Summer**					
	Off-Road Equipment	1.65	15.00	17.40	0.03	0.65	0.59
	Dust From Material Movement	0.00	0.00	0.00	0.00	7.08	3.42
	Onsite truck	0.01	0.02	0.01	0.01	0.76	0.08
	Total	**1.66**	**15.02**	**17.41**	**0.04**	**8.49**	**4.09**
Offsite							
	Worker	0.05	0.04	0.59	0.00	0.14	0.03
	Vendor	0.01	0.45	0.23	0.01	0.11	0.03
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.49**	**0.82**	**0.01**	**0.25**	**0.06**
TOTAL		***1.72***	***15.51***	***18.23***	***0.04***	***8.74***	***4.15***

3.9. Fine Grading (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Winter**					
	Off-Road Equipment	1.59	14.20	17.30	0.03	0.60	0.55
	Dust From Material Movement	0.00	0.00	0.00	0.00	7.08	3.42
	Onsite truck	0.01	0.02	0.01	0.01	0.76	0.08
	Total	**1.60**	**14.22**	**17.31**	**0.04**	**8.44**	**4.05**
Offsite							
	Worker	0.04	0.04	0.49	0.00	0.14	0.03
	Vendor	0.01	0.45	0.23	0.01	0.11	0.03
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.49**	**0.72**	**0.01**	**0.25**	**0.06**
TOTAL		***1.65***	***14.71***	***18.03***	***0.04***	***8.69***	***4.11***

3.11. Building Construction (2026) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Winter**					
	Off-Road Equipment	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite							
	Worker	0.05	0.04	0.50	0.00	0.13	0.03
	Vendor	0.01	0.20	0.10	0.01	0.05	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.24**	**0.60**	**0.01**	**0.18**	**0.04**
TOTAL		***1.13***	***10.09***	***13.60***	***0.03***	***0.56***	***0.39***

3.13. Building Construction (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite							
	Worker	0.04	0.03	0.53	0.00	0.13	0.03
	Vendor	0.01	0.19	0.10	0.01	0.05	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.22**	**0.63**	**0.01**	**0.18**	**0.04**
TOTAL		***1.08***	***9.61***	***13.53***	***0.03***	***0.52***	***0.35***

3.15. Building Construction (2028) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Winter**					
	Off-Road Equipment	0.99	8.92	12.90	0.02	0.30	0.28
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.99**	**8.92**	**12.90**	**0.02**	**0.30**	**0.28**
Offsite							
	Worker	0.04	0.03	0.44	0.00	0.13	0.03
	Vendor	0.01	0.19	0.10	0.01	0.05	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.22**	**0.54**	**0.01**	**0.18**	**0.04**
TOTAL		***1.04***	***9.14***	***13.44***	***0.03***	***0.48***	***0.32***

3.17. Paving (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
	Off-Road Equipment	0.74	6.94	9.95	0.01	0.30	0.27
	Paving	0.16	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.90**	**6.94**	**9.95**	**0.01**	**0.30**	**0.27**
Offsite							
	Worker	0.04	0.03	0.56	0.00	0.14	0.03
	Vendor	0.01	0.05	0.03	0.01	0.01	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.08**	**0.59**	**0.01**	**0.15**	**0.04**
TOTAL		***0.95***	***7.02***	***10.54***	***0.02***	***0.45***	***0.31***

3.19. Architectural Coating (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
	Off-Road Equipment	0.11	0.83	1.13	0.01	0.02	0.02
	Architectural Coatings	14.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**14.61**	**0.83**	**1.13**	**0.01**	**0.02**	**0.02**
Offsite							
	Worker	0.01	0.01	0.11	0.00	0.03	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.01**	**0.01**	**0.11**	**0.00**	**0.03**	**0.01**
TOTAL		***14.62***	***0.84***	***1.24***	***0.01***	***0.05***	***0.03***

3.21. Utility Trenching (2026) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***

3.23. Finishing/Landscaping (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite							
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Demolition	***2***	***21***	***20***	***0***	***1***	***1***
Demolition and Site Preparation	***6***	***51***	***49***	***0***	***24***	***12***
Demolition, Site Preparation, and Demolition Debris Haul	***6***	***51***	***50***	***0***	***24***	***12***
Site Preparation	***3***	***30***	***30***	***0***	***22***	***11***
Site Preparation and Rough Grading	***5***	***45***	***48***	***0***	***31***	***16***
Rough Grading	***2***	***16***	***18***	***0***	***9***	***4***
Rough Grading and Utility Trenching	***2***	***16***	***18***	***0***	***9***	***4***
Utility Trenching	***0***	***0***	***0***	***0***	***0***	***0***
Building Construction 2026	***1***	***10***	***14***	***0***	***1***	***0***
Building Construction 2027	***1***	***10***	***14***	***0***	***1***	***0***
Building Construction and Fine Grading	***3***	***24***	***32***	***0***	***9***	***4***
Building Construction and Architectural Coating	***16***	***10***	***15***	***0***	***1***	***0***
Building Construction, Architectural Coating, and Finishing/Landscaping	***16***	***10***	***15***	***0***	***1***	***0***
Building Construction and Finishing/Landscaping	***1***	***10***	***14***	***0***	***1***	***0***
Building Construction, Finishing/Landscaping, and Paving	***2***	***17***	***24***	***0***	***1***	***1***
Building Construction and Paving	***2***	***17***	***24***	***0***	***1***	***1***
Building Construction 2028	***1***	***9***	***13***	***0***	***0***	***0***
MAX DAILY	**16**	**51**	**50**	**0**	**31**	**16**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Unmitigated Construction LST Worksheet:

3.1. Demolition (2026) - Unmitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	20.70	19.00	0.84	0.78
Demolition	0.00	0.00	0.00	0.00
Onsite truck	0.02	0.01	0.31	0.03
Total	**20.72**	**19.01**	**1.15**	**0.81**

3.3. Demolition Debris Haul (2026) - Unmitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	0.00	0.00	0.04	0.01
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.04**	**0.01**

3.5. Site Preparation (2026) - Unmitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	29.20	28.80	1.24	1.14
Dust From Material Movement	0.00	0.00	19.70	10.10
Onsite truck	0.02	0.01	1.07	0.11
Total	**29.22**	**28.81**	**22.01**	**11.35**

3.7. Rough Grading (2026) - Unmitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	15.00	17.40	0.65	0.59
Dust From Material Movement	0.00	0.00	7.08	3.42
Onsite truck	0.02	0.01	0.76	0.08
Total	**15.02**	**17.41**	**8.49**	**4.09**

3.9. Fine Grading (2027) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	14.20	17.30	0.60	0.55
Dust From Material Movement	0.00	0.00	7.08	3.42
Onsite truck	0.02	0.01	0.76	0.08
Total	**14.22**	**17.31**	**8.44**	**4.05**

3.11. Building Construction (2026) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	9.85	13.00	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00
Total	**9.85**	**13.00**	**0.38**	**0.35**

3.13. Building Construction (2027) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	9.39	12.90	0.34	0.31
Onsite truck	0.00	0.00	0.00	0.00
Total	**9.39**	**12.90**	**0.34**	**0.31**

3.15. Building Construction (2028) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	8.92	12.90	0.30	0.28
Onsite truck	0.00	0.00	0.00	0.00
Total	**8.92**	**12.90**	**0.30**	**0.28**

3.17. Paving (2027) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	6.94	9.95	0.30	0.27
Paving	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Total	**6.94**	**9.95**	**0.30**	**0.27**

3.19. Architectural Coating (2027) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	0.83	1.13	0.02	0.02
Architectural Coatings	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.83**	**1.13**	**0.02**	**0.02**

3.21. Utility Trenching (2026) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**

3.23. Finishing/Landscaping (2027) - Unmitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**

	NOx	CO	PM10 Total	PM2.5 Total
Demolition	*21*	*19*	*1.15*	*0.81*
≤ 1.00 Acre LST	*92*	*793*	*8.95*	*3.71*
Exceeds LST?	*no*	*no*	*no*	*no*
Demolition and Site Preparation	*50*	*48*	*23.16*	*12.16*
4.50 Acre LST	*181*	*1,872*	*27.14*	*9.34*
Exceeds LST?	*no*	*no*	*no*	*yes*
Demolition, Site Preparation, and Demolition Debris Haul	*50*	*48*	*23.20*	*12.17*
4.50 Acre LST	*181*	*1,872*	*27.14*	*9.34*
Exceeds LST?	*no*	*no*	*no*	*yes*
Site Preparation	*29*	*29*	*22.01*	*11.35*
3.50 Acre LST	*160*	*1,587*	*22.08*	*7.77*
Exceeds LST?	*no*	*no*	*no*	*yes*
Site Preparation and Rough Grading	*44*	*46*	*30.50*	*15.44*
5.00 Acre LST	*191*	*2,015*	*29.67*	*10.12*
Exceeds LST?	*no*	*no*	*yes*	*yes*
Rough Grading	*15*	*17*	*8.49*	*4.09*
2.50 Acre LST	*139*	*1,301*	*17.01*	*6.20*
Exceeds LST?	*no*	*no*	*no*	*no*
Rough Grading and Utility Trenching	*15*	*17*	*8.49*	*4.09*
2.50 Acre LST	*139*	*1,301*	*17.01*	*6.20*
Exceeds LST?	*no*	*no*	*no*	*no*
Utility Trenching	*0*	*0*	*0.00*	*0.00*
≤ 1.00 Acre LST	*92*	*793*	*8.95*	*3.71*
Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2026	*10*	*13*	*0.38*	*0.35*
1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2027	*9*	*13*	*0.34*	*0.31*
1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction and Fine Grading	*24*	*30*	*8.78*	*4.36*
2.31 Acre LST	*135*	*1,248*	*16.06*	*5.90*
Exceeds LST?	*no*	*no*	*no*	*no*

Building Construction and Architectural Coating		*10*	*14*	*0.36*	*0.33*
	1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction, Architectural Coating, and Finishing/Landscaping		*10*	*14*	*0.36*	*0.33*
	1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction and Finishing/Landscaping		*9*	*13*	*0.34*	*0.31*
	1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction, Finishing/Landscaping, and Paving		*16*	*23*	*0.64*	*0.58*
	1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction and Paving		*16*	*23*	*0.64*	*0.58*
	1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
	Exceeds LST?	*no*	*no*	*no*	*no*
Building Construction 2028		*9*	*13*	*0.30*	*0.28*
	1.31 Acre LST	*104*	*907*	*10.68*	*4.24*
	Exceeds LST?	*no*	*no*	*no*	*no*

Mitigated Construction LST Worksheet:

*Applies Dust Suppresants and Water Exposed Surfaces to 3x per day

3.2. Demolition (2026) - Mitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	20.70	19.00	0.84	0.78
Demolition	0.00	0.00	0.00	0.00
Onsite truck	0.02	0.01	0.05	0.01
Total	**20.72**	**19.01**	**0.89**	**0.79**

3.4. Demolition Debris Haul (2026) - Mitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	0.00	0.00	0.04	0.01
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.04**	**0.01**

3.6. Site Preparation (2026) - Mitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	29.20	28.80	1.24	1.14
Dust From Material Movement	0.00	0.00	5.11	2.63
Onsite truck	0.02	0.01	0.17	0.02
Total	**29.22**	**28.81**	**6.52**	**3.79**

3.8. Rough Grading (2026) - Mitigated

	NOx	CO	PM10 Total	PM2.5Total
Onsite				
Off-Road Equipment	15.00	17.40	0.65	0.59
Dust From Material Movement	0.00	0.00	1.84	0.89
Onsite truck	0.02	0.01	0.12	0.01
Total	**15.02**	**17.41**	**2.61**	**1.49**

3.10. Fine Grading (2027) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	14.20	17.30	0.60	0.55
Dust From Material Movement	0.00	0.00	1.84	0.89
Onsite truck	0.02	0.01	0.12	0.01
Total	**14.22**	**17.31**	**2.56**	**1.45**

3.12. Building Construction (2026) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	9.85	13.00	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00
Total	**9.85**	**13.00**	**0.38**	**0.35**

3.14. Building Construction (2027) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	9.39	12.90	0.34	0.31
Onsite truck	0.00	0.00	0.00	0.00
Total	**9.39**	**12.90**	**0.34**	**0.31**

3.16. Building Construction (2028) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	8.92	12.90	0.30	0.28
Onsite truck	0.00	0.00	0.00	0.00
Total	**8.92**	**12.90**	**0.30**	**0.28**

3.18. Paving (2027) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	6.94	9.95	0.30	0.27
Paving	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Total	**6.94**	**9.95**	**0.30**	**0.27**

3.20. Architectural Coating (2027) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Off-Road Equipment	0.83	1.13	0.02	0.02
Architectural Coatings	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.83**	**1.13**	**0.02**	**0.02**

3.22. Utility Trenching (2026) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**

3.24. Finishing/Landscaping (2027) - Mitigated

	NOx	CO	PM10 Total	PM2.5 Total
Onsite				
Onsite truck	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**

	NOx	CO	PM10 Total	PM2.5 Total
Demolition and Site Preparation	*50*	*48*	*7.41*	*4.58*
4.50 Acre LST	*181*	*1,872*	*27.14*	*9.34*
Exceeds LST?	*no*	*no*	*no*	*no*
Demolition, Site Preparation, and Demolition Debris Haul	*50*	*48*	*7.45*	*4.59*
4.50 Acre LST	*181*	*1,872*	*27.14*	*9.34*
Exceeds LST?	*no*	*no*	*no*	*no*
Site Preparation	*29*	*29*	*6.52*	*3.79*
3.50 Acre LST	*160*	*1,587*	*22.08*	*7.77*
Exceeds LST?	*no*	*no*	*no*	*no*
Site Preparation and Rough Grading	*44*	*46*	*9.13*	*5.28*
5.00 Acre LST	*191*	*2,015*	*29.67*	*10.12*
Exceeds LST?	*no*	*no*	*no*	*no*

Regional Operation Emissions Worksheet

[1] CalEEMod, Version 2022.1.

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	1.85	0.83	15.20	0.03	3.84	0.98
Area	1.38	0.02	1.95	0.01	0.01	0.01
Energy	0.02	0.31	0.26	0.01	0.02	0.02
Stationary	0.98	2.80	2.50	0.01	0.14	0.14
Total	**4.23**	**3.96**	**19.91**	**0.05**	**4.01**	**1.15**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	1.84	0.92	14.20	0.03	3.84	0.98
Area	1.06	0.00	0.00	0.00	0.00	0.00
Energy	0.02	0.31	0.26	0.01	0.02	0.02
Stationary	0.98	2.80	2.50	0.01	0.14	0.14
Total	**3.90**	**4.03**	**16.96**	**0.04**	**4.00**	**1.14**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	1.85	0.92	15.20	0.03	3.84	0.98
Area	1.38	0.02	1.95	0.01	0.01	0.01
Energy	0.02	0.31	0.26	0.01	0.02	0.02
Stationary	0.98	2.80	2.50	0.01	0.14	0.14
Total	**4.23**	**4.03**	**19.91**	**0.05**	**4.01**	**1.15**

Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction[1]

	$MTCO_2e$
2026	194
2027	377
2028	1
Total Construction	**572**
30-Year Amortization[2]	**19**

[1] CalEEMod, Version 2022.1.

[2] Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

Operation[1]

	$MTCO_2e$/Year[2]	
	Operations	**%**
Mobile	400	61%
Area	1	0%
Energy	201	31%
Water	14	2%
Solid Waste	13	2%
Refrigerants	0	0%
Stationary	3	0%
30-Year Construction Amortization	19	3%
	651	100%
South Coast AQMD Bright-Line Screening Threshold	**3,000**	
Exceed Threshold?	**No**	

[1] CalEEMod, Version 2022.1.

[2] MTCO2e=metric tons of carbon dioxide equivalent.

LST Worksheets

Construction Localized Significance Thresholds: Demolition

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.00	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**92**	Tractors	0.5	0.0625			0
CO	**793**	Graders	0.5	0.0625			0
PM10	**8.95**	Dozers	0.5	0.0625	8	2	1
PM2.5	**3.71**	Scrapers	1	0.125			0
						Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	1	91	93	108	140	218
		91	93	108	140	218
CO	1	696	833	1234	2376	7724
	1	696	833	1234	2376	7724
		696	833	1234	2376	7724
PM10	1	4	11	24	48	121
	1	4	11	24	48	121
		4	11	24	48	121
PM2.5	1	3	4	8	19	68
	1	3	4	8	19	68
		3	4	8	19	68

Saddleback Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	91	93	108	140	218
CO	696	833	1234	2376	7724
PM10	4	11	24	48	121
PM2.5	3	4	8	19	68

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	1
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Demolition and Site Preparation

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	4.50	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**181**	Tractors	0.5	0.0625	8	4	2
CO	**1,872**	Graders	0.5	0.0625			0
PM10	**27.14**	Dozers	0.5	0.0625	8	5	2.5
PM2.5	**9.34**	Scrapers	1	0.125			0
						Acres	4.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	4	175	168	180	203	263
	5	197	189	201	222	278
		186	179	191	213	271
CO	4	1534	1810	2407	3913	9823
	5	1804	2102	2763	4387	10507
		1669	1956	2585	4150	10165
PM10	4	10	31	43	68	142
	5	12	37	49	74	148
		11	34	46	71	145
PM2.5	4	7	9	14	27	85
	5	8	11	16	30	90
		7	10	15	29	87

Saddleback Valley

4.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	186	179	191	213	271
CO	1669	1956	2585	4150	10165
PM10	11	34	46	71	145
PM2.5	7	10	15	29	87

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	4	19	5
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Demolition, Site Preparation, and Demolition Debris Haul

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	4.50	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**181**	Tractors	0.5	0.0625	8	4	2
CO	**1,872**	Graders	0.5	0.0625			0
PM10	**27.14**	Dozers	0.5	0.0625	8	5	2.5
PM2.5	**9.34**	Scrapers	1	0.125			0
						Acres	4.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	4	175	168	180	203	263
	5	197	189	201	222	278
		186	179	191	213	271
CO	4	1534	1810	2407	3913	9823
	5	1804	2102	2763	4387	10507
		1669	1956	2585	4150	10165
PM10	4	10	31	43	68	142
	5	12	37	49	74	148
		11	34	46	71	145
PM2.5	4	7	9	14	27	85
	5	8	11	16	30	90
		7	10	15	29	87

Saddleback Valley

4.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	186	179	191	213	271
CO	1669	1956	2585	4150	10165
PM10	11	34	46	71	145
PM2.5	7	10	15	29	87

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	4	19	5
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	3.50	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**160**	Tractors	0.5	0.0625	8	4	2
CO	**1,587**	Graders	0.5	0.0625			0
PM10	**22.08**	Dozers	0.5	0.0625	8	3	1.5
PM2.5	**7.77**	Scrapers	1	0.125			0
						Acres	3.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	153	148	160	184	248
	4	175	168	180	203	263
		164	158	170	194	256
CO	3	1263	1519	2052	3439	9138
	4	1534	1810	2407	3913	9823
		1399	1665	2230	3676	9481
PM10	3	8	24	36	61	135
	4	10	31	43	68	142
		9	28	40	65	139
PM2.5	3	5	8	12	25	79
	4	7	9	14	27	85
		6	9	13	26	82

Saddleback Valley

3.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	164	158	170	194	256
CO	1399	1665	2230	3676	9481
PM10	9	28	40	65	139
PM2.5	6	9	13	26	82

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	3	19	4
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation and Rough Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	5.00	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**191**	Tractors	0.5	0.0625	8	7	3.5
CO	**2,015**	Graders	0.5	0.0625	8	1	0.5
PM10	**29.67**	Dozers	0.5	0.0625	8	4	2
PM2.5	**10.12**	Scrapers	1	0.125			0
						Acres	6.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	197	189	201	222	278
	5	197	189	201	222	278
		197	189	201	222	278
CO	5	1804	2102	2763	4387	10507
	5	1804	2102	2763	4387	10507
		1804	2102	2763	4387	10507
PM10	5	12	37	49	74	148
	5	12	37	49	74	148
		12	37	49	74	148
PM2.5	5	8	11	16	30	90
	5	8	11	16	30	90
		8	11	16	30	90

Saddleback Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	197	189	201	222	278
CO	1804	2102	2763	4387	10507
PM10	12	37	49	74	148
PM2.5	8	11	16	30	90

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	5	19	5
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Rough Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	2.50	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**139**	Tractors	0.5	0.0625	8	3	1.5
CO	**1,301**	Graders	0.5	0.0625	8	1	0.5
PM10	**17.01**	Dozers	0.5	0.0625	8	1	0.5
PM2.5	**6.20**	Scrapers	1	0.125			0
						Acres	2.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	131	127	139	165	233
	3	153	148	160	184	248
		142	137	149	175	241
CO	2	993	1227	1696	2965	8454
	3	1263	1519	2052	3439	9138
		1128	1373	1874	3202	8796
PM10	2	6	18	30	55	129
	3	8	24	36	61	135
		7	21	33	58	132
PM2.5	2	4	6	10	22	74
	3	5	8	12	25	79
		5	7	11	23	77

Saddleback Valley

2.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	142	137	149	175	241
CO	1128	1373	1874	3202	8796
PM10	7	21	33	58	132
PM2.5	5	7	11	23	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	2	19	3
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Rough Grading and Utility Trenching

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	2.50	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**139**	Tractors	0.5	0.0625	8	3	1.5
CO	**1,301**	Graders	0.5	0.0625	8	1	0.5
PM10	**17.01**	Dozers	0.5	0.0625	8	1	0.5
PM2.5	**6.20**	Scrapers	1	0.125			0
						Acres	2.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	131	127	139	165	233
	3	153	148	160	184	248
		142	137	149	175	241
CO	2	993	1227	1696	2965	8454
	3	1263	1519	2052	3439	9138
		1128	1373	1874	3202	8796
PM10	2	6	18	30	55	129
	3	8	24	36	61	135
		7	21	33	58	132
PM2.5	2	4	6	10	22	74
	3	5	8	12	25	79
		5	7	11	23	77

Saddleback Valley

2.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	142	137	149	175	241
CO	1128	1373	1874	3202	8796
PM10	7	21	33	58	132
PM2.5	5	7	11	23	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	2	19	3
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Utility Trenching

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	0.00	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**92**	Tractors	0.5	0.0625			0
CO	**793**	Graders	0.5	0.0625			0
PM10	**8.95**	Dozers	0.5	0.0625			0
PM2.5	**3.71**	Scrapers	1	0.125			0
						Acres	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	1	91	93	108	140	218
		91	93	108	140	218
CO	1	696	833	1234	2376	7724
	1	696	833	1234	2376	7724
		696	833	1234	2376	7724
PM10	1	4	11	24	48	121
	1	4	11	24	48	121
		4	11	24	48	121
PM2.5	1	3	4	8	19	68
	1	3	4	8	19	68
		3	4	8	19	68

Saddleback Valley

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	91	93	108	140	218
CO	696	833	1234	2376	7724
PM10	4	11	24	48	121
PM2.5	3	4	8	19	68

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	1
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**104**	Tractors	0.5	0.0625	7	3	1.3125
CO	**907**	Graders	0.5	0.0625			0
PM10	**10.68**	Dozers	0.5	0.0625			0
PM2.5	**4.24**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	2	131	127	139	165	233
		104	104	118	148	223
CO	1	696	833	1234	2376	7724
	2	993	1227	1696	2965	8454
		789	956	1378	2560	7952
PM10	1	4	11	24	48	121
	2	6	18	30	55	129
		5	13	26	50	124
PM2.5	1	3	4	8	19	68
	2	4	6	10	22	74
		3	5	9	20	70

Saddleback Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	104	104	118	148	223
CO	789	956	1378	2560	7952
PM10	5	13	26	50	124
PM2.5	3	5	9	20	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	2
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Fine Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	2.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**135**	Tractors	0.5	0.0625	7	3	1.3125
CO	**1,248**	Graders	0.5	0.0625	8	1	0.5
PM10	**16.06**	Dozers	0.5	0.0625	8	1	0.5
PM2.5	**5.90**	Scrapers	1	0.125			0
						Acres	2.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	131	127	139	165	233
	3	153	148	160	184	248
		138	133	145	171	238
CO	2	993	1227	1696	2965	8454
	3	1263	1519	2052	3439	9138
		1077	1318	1807	3113	8668
PM10	2	6	18	30	55	129
	3	8	24	36	61	135
		7	20	32	57	131
PM2.5	2	4	6	10	22	74
	3	5	8	12	25	79
		4	7	11	23	76

Saddleback Valley

2.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	138	133	145	171	238
CO	1077	1318	1807	3113	8668
PM10	7	20	32	57	131
PM2.5	4	7	11	23	76

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	2	19	3
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Architectural Coating

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**104**	Tractors	0.5	0.0625	7	3	1.3125
CO	**907**	Graders	0.5	0.0625			0
PM10	**10.68**	Dozers	0.5	0.0625			0
PM2.5	**4.24**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	2	131	127	139	165	233
		104	104	118	148	223
CO	1	696	833	1234	2376	7724
	2	993	1227	1696	2965	8454
		789	956	1378	2560	7952
PM10	1	4	11	24	48	121
	2	6	18	30	55	129
		5	13	26	50	124
PM2.5	1	3	4	8	19	68
	2	4	6	10	22	74
		3	5	9	20	70

Saddleback Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	104	104	118	148	223
CO	789	956	1378	2560	7952
PM10	5	13	26	50	124
PM2.5	3	5	9	20	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	2
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction, Architectural Coating, and Finishing/Landscaping

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**104**	Tractors	0.5	0.0625	7	3	1.3125
CO	**907**	Graders	0.5	0.0625			0
PM10	**10.68**	Dozers	0.5	0.0625			0
PM2.5	**4.24**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	2	131	127	139	165	233
		104	104	118	148	223
CO	1	696	833	1234	2376	7724
	2	993	1227	1696	2965	8454
		789	956	1378	2560	7952
PM10	1	4	11	24	48	121
	2	6	18	30	55	129
		5	13	26	50	124
PM2.5	1	3	4	8	19	68
	2	4	6	10	22	74
		3	5	9	20	70

Saddleback Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	104	104	118	148	223
CO	789	956	1378	2560	7952
PM10	5	13	26	50	124
PM2.5	3	5	9	20	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	2
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Finishing/Landscaping

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**104**	Tractors	0.5	0.0625	7	3	1.3125
CO	**907**	Graders	0.5	0.0625			0
PM10	**10.68**	Dozers	0.5	0.0625			0
PM2.5	**4.24**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	2	131	127	139	165	233
		104	104	118	148	223
CO	1	696	833	1234	2376	7724
	2	993	1227	1696	2965	8454
		789	956	1378	2560	7952
PM10	1	4	11	24	48	121
	2	6	18	30	55	129
		5	13	26	50	124
PM2.5	1	3	4	8	19	68
	2	4	6	10	22	74
		3	5	9	20	70

Saddleback Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	104	104	118	148	223
CO	789	956	1378	2560	7952
PM10	5	13	26	50	124
PM2.5	3	5	9	20	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	2
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction, Finishing/Landscaping, and Paving

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**104**	Tractors	0.5	0.0625	7	3	1.3125
CO	**907**	Graders	0.5	0.0625			0
PM10	**10.68**	Dozers	0.5	0.0625			0
PM2.5	**4.24**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	2	131	127	139	165	233
		104	104	118	148	223
CO	1	696	833	1234	2376	7724
	2	993	1227	1696	2965	8454
		789	956	1378	2560	7952
PM10	1	4	11	24	48	121
	2	6	18	30	55	129
		5	13	26	50	124
PM2.5	1	3	4	8	19	68
	2	4	6	10	22	74
		3	5	9	20	70

Saddleback Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	104	104	118	148	223
CO	789	956	1378	2560	7952
PM10	5	13	26	50	124
PM2.5	3	5	9	20	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	2
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction and Paving

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
19	1.31	43	140	43	140	6.19

Source Receptor	**Saddleback Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	43						
NOx	**104**	Tractors	0.5	0.0625	7	3	1.3125
CO	**907**	Graders	0.5	0.0625			0
PM10	**10.68**	Dozers	0.5	0.0625			0
PM2.5	**4.24**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	91	93	108	140	218
	2	131	127	139	165	233
		104	104	118	148	223
CO	1	696	833	1234	2376	7724
	2	993	1227	1696	2965	8454
		789	956	1378	2560	7952
PM10	1	4	11	24	48	121
	2	6	18	30	55	129
		5	13	26	50	124
PM2.5	1	3	4	8	19	68
	2	4	6	10	22	74
		3	5	9	20	70

Saddleback Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	104	104	118	148	223
CO	789	956	1378	2560	7952
PM10	5	13	26	50	124
PM2.5	3	5	9	20	70

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
19	1	19	2
Distance Increment Below			
25			
Distance Increment Above			
50			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

1. Health Risk Assessment

1.1 INTRODUCTION

Project Description

This Health Risk Assessment (HRA) analyzes the potential health risk impacts experienced by off-site receptors from exposure to toxic air contaminants (TAC) during project construction. The District is proposing to build a new education center and an outdoor event space with parking infrastructure and landscaping on the northeast side of the project site (approximately 5.25 acres of the 8.51-acre project site). The southwestern side of the project site (approximately 3.26 acres) would remain vacant. No known or planned development is proposed for the vacant area; however, this HRA assumes construction equipment use would utilize this vacant space during project construction. The construction of the proposed project would occur in one phase and would start in July of 2026 and end in January 2028. Construction activities would include site preparation, grading, construction, and utility trenching.

Project Receptors

The nearest air quality receptors to the project site include single-family residences approximately 100 feet from the project site to the northeast across from Valencia Avenue, worker receptors approximately 220 feet east of the project site across from the intersection of Valencia Avenue and Legacy Road and approximately 250 feet northwest of the project site, Legacy Magnet Academy students approximately 100 feet south of the project site across Legacy Road, and park receptors approximately 200 feet north of the project site across Valencia Avenue. Guidance from the California Environmental Protection Agency (CalEPA), Office of Environmental Health Hazard Assessment (OEHHA), California Air Pollution Control Officers Association (CAPCOA), and the South Coast Air Quality Management District (South Coast AQMD) was used to complete the HRA for these receptor types.

1.2 METHODOLOGY AND SIGNIFICANCE THRESHOLDS

This HRA considers the health risk impact to receptors from exposure to diesel particulate matter (DPM) generated from diesel-fueled hauling trucks and off-road construction equipment. Health risk impacts were based on conservative (i.e., health protective) assumptions. The United States Environmental Protection Agency (USEPA, 2005) and OEHHA (2015) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks. Therefore, the estimated risks do not necessarily represent actual risks experienced by populations near a site. The use of conservative assumptions tends to produce upper-bound estimates of risk and usually overestimate exposure and thus risk.

For this HRA, the South Coast AQMD significance thresholds were deemed to be appropriate and the thresholds that were used for this project are shown below:

- Excess cancer risk of more than 10 in a million
- Non-cancer hazard index (chronic or acute) greater than 1.0

Potential exposures to DPM from proposed project construction and operation were evaluated for off-site receptors near the project site. Pollutant concentrations were estimated using an air dispersion model, and excess lifetime cancer risks and chronic non-cancer hazard indexes were calculated using the California Air Resources Board (CARB) Hotspots Analysis and Reporting Program (HARP). These risks were then compared to the significance thresholds used for this HRA.

1.3 CONSTRUCTION EMISSIONS

To format the emission estimates to be used in HARP, construction emissions for construction activities were calculated for total pounds of emissions and normalized for pounds per hour for working hours on-site. The hourly estimate was identified because HARP requires that an hourly emissions estimate be entered to estimate pollutant concentration and risk, and the hourly estimates were normalized across working hours because DPM does not have associated acute toxicity factors or reference exposure limit. Construction emissions were estimated consistent with the Air Quality analysis for the proposed project, using the proposed construction schedule and the latest version of California Emissions Estimation Model (CalEEMod), Version 2022.1. DPM emissions were based on the CalEEMod construction results for PM_{10} Exhaust emissions and the proposed construction schedule.

The project-related construction emissions are based on information provided by the project applicant and CalEEMod defaults. Initial demolition is anticipated to commence in July 2026. The construction schedule shown in Table 1, *Proposed Project Construction Schedule*, reflects the schedule of construction activities anticipated by the project applicant for each import scenario. In addition, all on-site construction activities utilize CalEEMod default construction equipment mix and operating hours. The CalEEMod construction emissions output, off-model construction emissions calculations, and emission rate calculations are provided in Attachment A.

Table 1 Proposed Project Construction Schedule

Construction Activity	Start Date	End Date	Workdays
Demolition	07/08/2026	07/17/2026	8
Site Preparation	07/14/2026	08/12/2026	22
Demolition Debris Haul	07/15/2026	07/17/2026	3
Rough Grading	08/04/2026	09/15/2026	31
Utility Trenching	09/14/2026	10/12/2026	21
Building Construction	10/13/2026	01/01/2028	319
Fine Grading	03/05/2027	03/25/2027	15
Architectural Coating	05/28/2027	06/28/2027	22
Finishing/Landscaping	06/04/2027	08/13/2027	51
Paving	07/02/2027	08/25/2027	39

1.4 DISPERSION MODELING

Pollutant concentration modeling was performed using the AERMOD atmospheric dispersion model to assess the impact of emitted compounds on sensitive receptors near the project. The model is a steady state Gaussian plume model and is an approved model by the South Coast AQMD for estimating pollutant concentrations at specific locations from point and fugitive sources in simple and complex terrain. The on-site construction emissions for the project were modeled as an area source placed over the project site. The off-site truck hauling sources were modeled as line sources. The model requires additional input parameters, including chemical emission data and local meteorology. Meteorological data obtained from the South Coast AQMD for the nearest representative meteorological station's (John Wayne Airport) the latest available years with complete data (2017-2021) were used to represent local weather conditions and prevailing wind patterns.

Release Heights

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the analyzed receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain. An emission release height of 4.15 m was used as representative of the stack exhaust height for off-road landside construction equipment and diesel truck traffic, and an initial vertical dispersion parameter of 1.93 m was used, per CARB guidance (CARB 2000).

Variable Emissions Factor

To determine contaminant impacts during construction hours, the model's Hour-Day scalar option was invoked to predict ground-level concentrations for construction emissions generated Monday through Friday. Construction was assumed to occur between the hours of 7:00 AM and 4:00 PM with a 1-hour lunch break.

Unit Emission Rates

A unit emission rate of 1 gram per second (g/s) was used for all modeled sources for construction. The annual average and hourly plot files produced by AERMOD using sources with a 1 g/s emission rate were then utilized in the HARP calculator tool with emission rates calculated in Attachment A. The AERMOD output files are contained in Attachment B, and the HARP health risk calculation results are contained in Attachment C.

Maximum Impacted Receptors

As previously mentioned, the nearest air quality receptors to the project site include single-family residences approximately 100 feet from the project site to the northeast across from Valencia Avenue, worker receptors approximately 220 feet east of the project site across from the intersection of Valencia Avenue and Legacy Road and approximately 250 feet northwest of the project site, Legacy Magnet Academy students approximately 100 feet south of the project site across Legacy Road, and park receptors approximately 200 feet north of the project site across Valencia Avenue. These receptors were included in AERMOD as discrete cartesian receptors and labeled for receptor-specific risk calculations. The air dispersion model output for DPM and $PM_{2.5}$ concentrations from the AERMOD 1 g/s modeling are provided in Attachment B and the HARP results are provided in Attachment C.

1.5 RISK CHARACTERIZATION

1.5.1 Carcinogenic Chemical Risk

A threshold of ten in one million ($10x10^{-6}$) has been established by OEHHA and is recommended by the South Coast AQMD and other air districts as a level posing no significant risk for exposures to carcinogens. Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of exposure to an ambient concentration of one microgram per cubic meter ($\mu g/m^3$) over a lifetime of 70 years.

HARP has several available risk scenario selections for various receptor types for use in health risk and concentration calculations. The selections used for each receptor type affected by the proposed project are shown in Table 2, *HARP Input Selections*.

TABLE 2. HARP INPUT SELECTIONS

Input Parameter	Residential Receptors	Park Receptors	Middle School Receptors	Worker Receptors
Both Project Scenarios (Truck Import Scenario & Barge Import Scenario)				
Analysis Type	Cancer Risk	Cancer Risk	Cancer Risk	Cancer Risk
Receptor Type	Individual Resident	Individual Resident	Individual Resident	Worker
Exposure Duration	2 Years	2 Years	2 Years	2 Years
Start Age	3rd Trimester	3rd Trimester	Age 11	Age 16
Intake Rate Percentile	OEHHA Derived Method	OEHHA Derived Method	OEHHA Derived Method	OEHHA Derived Method
Pathways to Evaluate	Mandatory Minimum	Mandatory Minimum	Mandatory Minimum	Worker Pathways
Inhalation Pathway: Fraction of Time at Home	Applied	Not Applied	Not Applied	Not Applied
Inhalation Pathway: Adjustments for Worker and/or 8-hour Chronic Risk	Not Applied	Applied; Exposure Frequency 180 days/year	Applied; Exposure Frequency 180 days/year	Applied; Exposure Frequency 250 days/year
Inhalation Pathway: Advanced Option (Tier 2)	Applied	Applied	Applied	Applied
Soil Pathway: Advanced Option (Tier 2)	Applied	Applied	Applied	Applied
Dermal Pathway: Advanced Option (Tier 2)	Applied; Mixed Climate	Applied; Mixed Climate	Applied; Mixed Climate	Applied; Mixed Climate
Mother's Milk Pathway: Advanced Option (Tier 2)	Applied	Applied	Applied	NA

Note: NA = Not Applicable.

1.5.2 Non-Carcinogenic Hazards

An evaluation was also conducted of the potential non-cancer effects of chronic chemical exposures. Adverse health effects are evaluated by comparing the annual receptor level (flagpole) concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

The hazard index approach was used to quantify non-carcinogenic impacts. The hazard index assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). Target organs presented in regulatory guidance were used for each discrete chemical exposure. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity value. This ratio is summed for compounds affecting the same toxicological endpoint. A health hazard is presumed to exist where the total equals or exceeds one.

The chronic hazard analysis for DPM is provided in Attachment C along with the cancer risk calculation results from HARP. The calculations contain the relevant exposure concentrations and corresponding reference dose values used in the evaluation of non-carcinogenic exposures.

1.6 CONSTRUCTION HRA RESULTS

The calculated results are provided in Attachment C and are summarized below. Table 3, *Project Risk Summary – Unmitigated Scenario,* shows the estimated cancer risk and chronic non-cancer hazard experienced by nearby receptors during construction of the proposed project.

TABLE 3. PROJECT RISK SUMMARY – UNMITIGATED SCENARIO

Receptor	Cancer Risk (per million)	Hazard Index
Residential MIR	6	<0.1
Worker MIR	<1	<0.1
Park MIR	<1	<0.1
Middle School MIR	<1	<0.1
South Coast AQMD Threshold	*10*	*1.0*
Exceeds Threshold?	**No**	**No**

Note: MIR = Maximum Impacted Receptor. Totals may not add up due to rounding.
Source: Attachment C

As shown in Table 3, cancer risk for all analyzed receptors during project construction was calculated to be less than the 10 in one million significance threshold. Additionally, the Hazard Index at all receptor locations would be well below the threshold of 1.0. As a result, construction health risk impacts would be less than significant, and no mitigation would be required.

2. References

California Air Pollution Control Officers Association (CAPCOA). 2022. California Emissions Estimator Model (CalEEMod). Version 2022.1. Developed by: ICF in collaboration with the Sacramento Metropolitan Air Quality Management District.

California Air Resources Board (CARB). 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.*

Office of Environmental Health Hazard Assessment (OEHHA). 2015. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments.* Dated February 2015.

South Coast AQMD (South Coast Air Quality Management District). 2017–2021. Meteorological Data Set for John Wayne Airport Meteorological Station. Accessed July 11, 2025. http://www.aqmd.gov/home/air-quality/meteorological-data/data-for-aermod.

United States Environmental Protection Agency (USEPA). 2011. *Exposure Factors Handbook 2011 Edition (Final).* EPA/600/R-09/052F, 2011.

_____. 2005. *Guideline on Air Quality Models* (Revised). EPA-450/2-78-027R.

ATTACHMENT A

HEALTH RISK ASSESSMENT EMISSION CALCULATIONS

Construction Heath Risk Assessment Emission Rates

Unmitigated Construction Emission Summary (lbs/day)	On-Site	Off-Site
	PM10E	PM10E
2026-2028		
Total Construction Emissions (lbs)	184.73257	0.04097
Average Annual Construction Emissions (lbs/year)	124.77247	0.02767
Average Hourly Construction Emissions (lbs/hour)	0.05951	0.00001
Total Duration: 1.5 Years		

Note: Assumes average of 8 hours of construction (across 388 total workdays) activity per day within 1,000 feet of site. All off-site emission estimates shown account for the adjustment factor for emissions occurring within 1,000 feet of the site (1.3 mi/20 mi = 0.064 off-site adjusment factor).

Annual Onsite Emissions (Tons)														
Phase Name	**Mitigation Scenario**	**Year**	**Emission Source**	**ROG**	**NOx**	**CO**	**SOx**	**PM10E**	**PM10D**	**PM10T**	**PM2.5E**	**PM2.5D**	**PM2.5T**	**CO2e**
Demolition	Unmitigated	2026	Off-road Equipment	0.009147	0.0826061	12.434229	0.0001301	0.0033723		0.0033723	0.0031026		0.0031026	12.4769
Demolition	Unmitigated	2026	Demolition						0	0		0	0	
Demolition	Unmitigated	2026	Onsite Truck	2.278E-06	6.713E-05	0.0158993	1.61E-07	1.46E-07	0.001166	0.0011662	1.46E-07	0.0001166	0.0001167	0.0167578
Demolition Debris Hau	Unmitigated	2026	Demolition						6.219E-05	6.219E-05		9.418E-06	9.418E-06	
Demolition Debris Hau	Unmitigated	2026	Onsite Truck	0	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Site Preparation	Unmitigated	2026	Off-road Equipment	0.0345826	0.3207989	52.868377	5.38E-04	1.37E-02		0.0136676	1.26E-02		0.0125742	53.049808
Site Preparation	Unmitigated	2026	Dust From Material Movement						0.2162271	0.2162271		0.1111269	0.1111269	
Site Preparation	Unmitigated	2026	Onsite Truck	6.764E-06	0.000266	0.1125202	9.43E-07	1.40E-06	0.0111651	0.0111665	1.40E-06	0.0011162	0.0011176	0.1182974
Rough Grading	Unmitigated	2026	Off-road Equipment	2.55E-02	0.2320369	41.616584	4.23E-04	1.00E-02		0.0100164	9.22E-03		0.009215	41.759402
Rough Grading	Unmitigated	2026	Dust From Material Movement						0.1097801	0.1097801		0.0530834	0.0530834	
Rough Grading	Unmitigated	2026	Onsite Truck	9.25E-06	0.0003287	0.1194922	1.05E-06	1.41E-06	0.0112142	0.0112156	1.41E-06	0.0011211	0.0011225	0.1256933
Building Construction	Unmitigated	2026	Off-road Equipment	3.06E-02	0.2815431	62.135496	6.68E-04	1.08E-02		0.0108187	9.95E-03		0.0099532	62.348729
Building Construction	Unmitigated	2026	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Utility Trenching	Unmitigated	2026	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Fine Grading	Unmitigated	2027	Off-road Equipment	1.19E-02	0.1067408	20.140019	2.05E-04	4.48E-03		0.0044825	4.12E-03		0.0041239	20.209135
Fine Grading	Unmitigated	2027	Dust From Material Movement						0.0531194	0.0531194		0.0256855	0.0256855	
Fine Grading	Unmitigated	2027	Onsite Truck	4.47E-06	0.0001558	0.0567638	5.06E-07	6.81E-07	0.0054262	0.0054269	6.81E-07	0.0005425	0.0005431	0.0597574
Building Construction	Unmitigated	2027	Off-road Equipment	1.34E-01	1.2241752	283.47398	3.05E-03	4.39E-02		0.0438749	4.04E-02		0.0403649	284.44679
Building Construction	Unmitigated	2027	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Paving	Unmitigated	2027	Off-road Equipment	1.44E-02	0.1354156	26.731663	2.72E-04	5.81E-03		0.0058135	5.35E-03		0.0053484	26.823399
Paving	Unmitigated	2027	Paving	3.03E-03										
Paving	Unmitigated	2027	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Architectural Coating	Unmitigated	2027	Off-road Equipment	1.25E-03	0.0091428	1.3323295	1.90E-05	2.10E-04		0.0002095	1.93E-04		0.0001928	1.3369017
Architectural Coating	Unmitigated	2027	Architectural Coatings	1.60E-01										
Architectural Coating	Unmitigated	2027	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Finishing/Landscaping	Unmitigated	2027	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Building Construction	Unmitigated	2028	Off-road Equipment	3.54E-04	0.0031875	0.7767639	8.36E-06	1.07E-04		0.0001072	9.86E-05		9.865E-05	0.7794296
Building Construction	Unmitigated	2028	Onsite Truck	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
							TOTAL	**0.0923663**	**Tons**					

Annual Offsite Emissions (tons)														
Phase Name	**Mitigation Scenario**	**Year**	**Emission Source**	**ROG**	**NOx**	**CO**	**SOx**	**PM10E**	**PM10D**	**PM10T**	**PM2.5E**	**PM2.5D**	**PM2.5T**	**CO2e**
Demolition	Unmitigated	2026	Worker	0.000187	0.0001605	0.4901729	0	0	0.0005521	0.0005521	0	0.0001293	0.0001293	0.4969607
Demolition	Unmitigated	2026	Vendor	1.887E-05	0.000884	0.6988122	5.467E-06	5.467E-06	0.0002058	0.0002113	5.467E-06	5.692E-05	6.239E-05	0.7299439
Demolition	Unmitigated	2026	Hauling	0	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Demolition Debris Hau	Unmitigated	2026	Worker	0	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Demolition Debris Hau	Unmitigated	2026	Vendor	0	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Demolition Debris Hau	Unmitigated	2026	Hauling	1.488E-06	0.0001285	0.0932642	6.94E-07	1.32E-06	2.688E-05	2.82E-05	1.32E-06	7.547E-06	8.87E-06	0.0979211
Site Preparation	Unmitigated	2026	Worker	0.0006	0.0005149	1.5726381	0.00E+00	0.00E+00	0.0017714	0.0017714	0.00E+00	0.0004149	0.0004149	1.5944156
Site Preparation	Unmitigated	2026	Vendor	0.0001233	0.0057734	4.5641173	3.57E-05	3.57E-05	0.0013443	0.00138	3.57E-05	0.0003718	0.0004075	4.7674462
Site Preparation	Unmitigated	2026	Hauling	0	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Rough Grading	Unmitigated	2026	Worker	0.0007247	0.0006219	1.89942	0.00E+00	0.00E+00	0.0021394	0.0021394	0.00E+00	0.0005011	0.0005011	1.9257227
Rough Grading	Unmitigated	2026	Vendor	0.0001554	0.0072789	5.7542818	4.50E-05	4.50E-05	0.0016948	0.0017398	4.50E-05	0.0004687	0.0005137	6.010632
Rough Grading	Unmitigated	2026	Hauling	0	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Fine Grading	Unmitigated	2027	Worker	0.0003055	0.000296	0.9035719	0.00E+00	0.00E+00	0.0010352	0.0010352	0.00E+00	0.0002424	0.0002424	0.9160985
Fine Grading	Unmitigated	2027	Vendor	7.519E-05	0.0033963	2.7331156	2.18E-05	2.18E-05	0.0008201	0.0008419	2.18E-05	0.0002268	0.0002486	2.8509119
Fine Grading	Unmitigated	2027	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Building Construction	Unmitigated	2026	Worker	1.28E-03	0.0010992	3.3570776	0.00E+00	0.00E+00	0.0037813	0.0037813	0.00E+00	0.0008856	0.0008856	3.4035656
Building Construction	Unmitigated	2026	Vendor	1.24E-04	0.005814	4.5962411	3.60E-05	3.60E-05	0.0013537	0.0013897	3.60E-05	0.0003744	0.0004104	4.8010012
Building Construction	Unmitigated	2026	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Building Construction	Unmitigated	2027	Worker	5.09E-03	0.0049323	15.058315	0.00E+00	0.00E+00	0.0172522	0.0172522	0.00E+00	0.0040405	0.0040405	15.267075
Building Construction	Unmitigated	2027	Vendor	5.66E-04	0.0255792	20.584626	1.64E-04	1.64E-04	0.0061764	0.0063404	1.64E-04	0.0017082	0.0018722	21.471817
Building Construction	Unmitigated	2027	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Building Construction	Unmitigated	2028	Worker	1.36E-05	1.191E-05	0.040522	0.00E+00	0.00E+00	4.727E-05	4.727E-05	0.00E+00	1.107E-05	1.107E-05	0.0410877
Building Construction	Unmitigated	2028	Vendor	1.55E-06	6.709E-05	0.0550965	4.50E-07	4.50E-07	1.692E-05	1.737E-05	4.50E-07	4.68E-06	5.129E-06	0.0575215
Building Construction	Unmitigated	2028	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Paving	Unmitigated	2027	Worker	7.94E-04	0.0007695	2.3492869	0.00E+00	0.00E+00	0.0026916	0.0026916	0.00E+00	0.0006304	0.0006304	2.381856
Paving	Unmitigated	2027	Vendor	2.30E-05	0.0010389	0.8360118	6.66E-06	6.66E-06	0.0002508	0.0002575	6.66E-06	6.937E-05	7.604E-05	0.8720437
Paving	Unmitigated	2027	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Architectural Coating	Unmitigated	2027	Worker	8.59E-05	8.324E-05	0.2541349	0.00E+00	0.00E+00	0.0002912	0.0002912	0.00E+00	6.819E-05	6.819E-05	0.257658
Architectural Coating	Unmitigated	2027	Vendor	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Architectural Coating	Unmitigated	2027	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Utility Trenching	Unmitigated	2026	Worker	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Utility Trenching	Unmitigated	2026	Vendor	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Utility Trenching	Unmitigated	2026	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Finishing/Landscaping	Unmitigated	2027	Worker	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Finishing/Landscaping	Unmitigated	2027	Vendor	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
Finishing/Landscaping	Unmitigated	2027	Hauling	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0	0	0
							TOTAL	**0.0003164**	**Tons**					

Construction Schedule				
Phase Name	**Start Date**	**End Date**	**Days Per Week**	**Work Days per Phase**
Demolition	07/08/2026	07/17/2026	5	8
Site Preparation	07/14/2026	08/12/2026	5	22
Demolition Debris Haul	07/15/2026	07/17/2026	5	3
Rough Grading	08/04/2026	09/15/2026	5	31
Utility Trenching	09/14/2026	10/12/2026	5	21
Building Construction	10/13/2026	01/01/2028	5	319
Fine Grading	03/05/2027	03/25/2027	5	15
Architectural Coating	05/28/2027	06/28/2027	5	22
Finishing/Landscaping	06/04/2027	08/13/2027	5	51
Paving	07/02/2027	08/25/2027	5	39

Overlapping Schedule By Year and Season				
Phase Name	**Start Date**	**End Date**	**Total Workdays**	**Number of Phases**
Summer - 2026				
Demolition	7/8/2026	7/13/2026	4	1
Demolition; Site Preparation	7/14/2026	7/14/2026	1	2
Demolition; Site Preparation; Demolition Debris Haul	7/15/2026	7/17/2026	3	3
Site Preparation	7/18/2026	8/3/2026	11	1
Site Preparation; Rough Grading	8/4/2026	8/12/2026	7	2
Rough Grading	8/13/2026	9/13/2026	22	1
Rough Grading; Utility Trenching	9/14/2026	9/15/2026	2	2
Utility Trenching	9/16/2026	9/30/2026	11	1
Winter - 2026				
Utility Trenching	10/1/2026	10/12/2026	8	1
Building Construction	10/13/2026	12/31/2026	58	1
Winter - 2027				
Building Construction	1/1/2027	3/4/2027	45	1
Building Construction; Fine Grading	3/5/2027	3/25/2027	15	2
Building Construction	3/26/2027	3/31/2027	4	1
Summer - 2027				
Building Construction	4/1/2027	5/27/2027	41	1
Building Construction; Architectural Coating	5/28/2027	6/3/2027	5	2
Building Construction; Architectural Coating;	6/4/2027	6/28/2027	17	3
Building Construction; Finishing/Landscaping	6/29/2027	7/1/2027	3	2
Building Construction; Finishing/Landscaping; Paving	7/2/2027	8/13/2027	31	3
Building Construction; Paving	8/14/2027	8/25/2027	8	2
Building Construction	8/26/2027	9/30/2027	26	1
Winter - 2027				
Building Construction	10/1/2027	12/31/2027	66	1
Winter - 2028				
Building Construction	1/1/2028	1/1/2028	0	1

Note 1: Phases noted as 5 days per week are assumed to occur Monday through Friday.

Note 2: Phases noted as 6 days per week are assumed to occur Monday through Saturday.

ATTACHMENT B

HEALTH RISK ASSESSMENT DISPERSION MODELING RESULTS

Control Pathway

AERMOD

Dispersion Options

Titles

Tustin District Office Project
Construction Health Risk Assessment

Dispersion Options

☐ Regulatory Default ☒ Non-Default Options

☒ Flat & Elevated Terrain
☐ No Stack-Tip Downwash (NOSTD)
☐ Run in Screening Mode
☐ Conversion of NOx to NO2 (OLM or PVMRM)
☐ No Checks for Non-Sequential Met Data
☒ Fast All Sources (FASTALL)
☐ Fast Area Sources (FASTAREA)
☐ Optimized Area Source Plume Depletion
☐ Gas Deposition

BETA Options:

☐ Capped and Horizontal Stack Releases
☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*)
☐ Low Wind Options

☐ SCIM (Sampled Chronological Input Model)
☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☒ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM2.5

Averaging Time Options

Hours ☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☒ Period ☐ Annual

Exponential Decay

☐ Yes ☒ No

Terrain Height Options

☐ Flat ☒ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☒ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: TSD-21.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: SITE (Project Site)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
18.38	4.15	0.00003	1.93	11	980190.26	3742307.89
		0.00003			980309.84	3742211.37
		0.00003			980311.07	3742203.85
		0.00003			980261.94	3742151.49
		0.00003			980214.25	3742116.64
		0.00003			980182.95	3742100.02
		0.00003			980087.84	3742066.89
		0.00003			980059.39	3742057.15
		0.00003			980031.33	3742043.51
		0.00003			980015.35	3742032.59
		0.00003			979998.98	3742052.86

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: OFF_1 (Off-Site Hauling - Tustin Rd)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.00	0.31820		980358.17	3741647.63	16.69	4.15
			980404.74	3741824.25	16.81	4.15
			980458.34	3741942.00	16.86	4.15
			980535.67	3742054.48	17.32	4.15
			980608.59	3742153.53	20.44	4.15
			980654.15	3742232.71	24.06	4.15

Source Type: LINE VOLUME

Source: OFF_2 (Off-Site Hauling - Valencia Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.36220		980541.37	3742064.28	17.49	4.15
			980459.94	3742121.76	17.69	4.15
			980327.58	3742222.35	18.25	4.15
			980180.05	3742333.10	18.56	4.15
			980123.91	3742373.58	19.11	4.15
			980092.38	3742392.75	19.28	4.15
			980052.99	3742410.30	19.53	4.15
			980013.21	3742424.34	19.84	4.15
			979960.95	3742435.26	20.19	4.15
			979902.05	3742443.06	20.58	4.15

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME

Source: OFF_3 (Off-Site Hauling - Legacy Rd)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
20.00	0.31970		980033.52	3742027.24	17.78	4.15
			980078.60	3742046.47	18.15	4.15
			980147.89	3742071.01	18.52	4.15
			980198.29	3742089.90	18.24	4.15
			980241.72	3742116.09	18.21	4.15
			980279.18	3742145.93	18.50	4.15
			980315.98	3742183.73	18.15	4.15
			980359.24	3742242.61	18.42	4.15
			980400.61	3742299.21	19.01	4.15
			980420.68	3742327.76	19.03	4.15
			980432.50	3742352.60	18.82	4.15
			980464.87	3742423.59	18.32	4.15
			980473.85	3742449.34	18.44	4.15
			980485.55	3742474.30	18.36	4.15

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF_3	L0000067	980042.71	3742031.17	18.22	4.15	0.00969	20.00		9.30	3.86
	L0000068	980061.11	3742039.01	18.23	4.15	0.00969	20.00		9.30	3.86
	L0000069	980079.53	3742046.80	18.13	4.15	0.00969	20.00		9.30	3.86
	L0000070	980098.38	3742053.48	18.18	4.15	0.00969	20.00		9.30	3.86
	L0000071	980117.24	3742060.15	18.27	4.15	0.00969	20.00		9.30	3.86
	L0000072	980136.09	3742066.83	18.38	4.15	0.00969	20.00		9.30	3.86
	L0000073	980154.90	3742073.63	18.43	4.15	0.00969	20.00		9.30	3.86
	L0000074	980173.62	3742080.65	18.39	4.15	0.00969	20.00		9.30	3.86
	L0000075	980192.35	3742087.68	18.34	4.15	0.00969	20.00		9.30	3.86
	L0000076	980209.98	3742096.96	18.38	4.15	0.00969	20.00		9.30	3.86
	L0000077	980227.11	3742107.28	18.35	4.15	0.00969	20.00		9.30	3.86
	L0000078	980244.02	3742117.93	18.25	4.15	0.00969	20.00		9.30	3.86
	L0000079	980259.66	3742130.39	18.43	4.15	0.00969	20.00		9.30	3.86
	L0000080	980275.31	3742142.85	18.45	4.15	0.00969	20.00		9.30	3.86
	L0000081	980289.68	3742156.71	18.38	4.15	0.00969	20.00		9.30	3.86
	L0000082	980303.63	3742171.04	18.31	4.15	0.00969	20.00		9.30	3.86
	L0000083	980317.34	3742185.58	18.18	4.15	0.00969	20.00		9.30	3.86
	L0000084	980329.18	3742201.70	18.21	4.15	0.00969	20.00		9.30	3.86
	L0000085	980341.02	3742217.81	18.24	4.15	0.00969	20.00		9.30	3.86
	L0000086	980352.87	3742233.93	18.43	4.15	0.00969	20.00		9.30	3.86
	L0000087	980364.69	3742250.06	18.46	4.15	0.00969	20.00		9.30	3.86
	L0000088	980376.49	3742266.21	18.72	4.15	0.00969	20.00		9.30	3.86
	L0000089	980388.29	3742282.35	18.81	4.15	0.00969	20.00		9.30	3.86
	L0000090	980400.09	3742298.50	18.95	4.15	0.00969	20.00		9.30	3.86

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF_3	L0000091	980411.61	3742314.85	18.96	4.15	0.00969	20.00		9.30	3.86
	L0000092	980422.50	3742331.57	19.00	4.15	0.00969	20.00		9.30	3.86
	L0000093	980431.09	3742349.63	18.92	4.15	0.00969	20.00		9.30	3.86
	L0000094	980439.43	3742367.81	18.78	4.15	0.00969	20.00		9.30	3.86
	L0000095	980447.73	3742386.01	18.71	4.15	0.00969	20.00		9.30	3.86
	L0000096	980456.03	3742404.20	18.40	4.15	0.00969	20.00		9.30	3.86
	L0000097	980464.33	3742422.40	18.30	4.15	0.00969	20.00		9.30	3.86
	L0000098	980471.02	3742441.24	18.38	4.15	0.00969	20.00		9.30	3.86
	L0000099	980478.70	3742459.68	18.43	4.15	0.00969	20.00		9.30	3.86

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF_2	L0000100	980533.20	3742070.05	17.45	4.15	0.00953	20.00		9.30	3.86
	L0000101	980516.86	3742081.58	17.55	4.15	0.00953	20.00		9.30	3.86
	L0000102	980500.52	3742093.11	17.56	4.15	0.00953	20.00		9.30	3.86
	L0000103	980484.18	3742104.65	17.61	4.15	0.00953	20.00		9.30	3.86
	L0000104	980467.84	3742116.18	17.72	4.15	0.00953	20.00		9.30	3.86
	L0000105	980451.72	3742128.01	17.75	4.15	0.00953	20.00		9.30	3.86
	L0000106	980435.80	3742140.11	17.97	4.15	0.00953	20.00		9.30	3.86
	L0000107	980419.87	3742152.21	17.96	4.15	0.00953	20.00		9.30	3.86
	L0000108	980403.95	3742164.31	18.15	4.15	0.00953	20.00		9.30	3.86
	L0000109	980388.03	3742176.41	18.32	4.15	0.00953	20.00		9.30	3.86
	L0000110	980372.10	3742188.51	18.23	4.15	0.00953	20.00		9.30	3.86
	L0000111	980356.18	3742200.62	18.21	4.15	0.00953	20.00		9.30	3.86
	L0000112	980340.26	3742212.72	18.19	4.15	0.00953	20.00		9.30	3.86
	L0000113	980324.32	3742224.80	18.42	4.15	0.00953	20.00		9.30	3.86

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF_2	L0000114	980308.32	3742236.81	18.55	4.15	0.00953	20.00		9.30	3.86
	L0000115	980292.33	3742248.81	18.49	4.15	0.00953	20.00		9.30	3.86
	L0000116	980276.33	3742260.82	18.54	4.15	0.00953	20.00		9.30	3.86
	L0000117	980260.34	3742272.83	18.46	4.15	0.00953	20.00		9.30	3.86
	L0000118	980244.34	3742284.83	18.48	4.15	0.00953	20.00		9.30	3.86
	L0000119	980228.35	3742296.84	18.47	4.15	0.00953	20.00		9.30	3.86
	L0000120	980212.35	3742308.85	18.43	4.15	0.00953	20.00		9.30	3.86
	L0000121	980196.36	3742320.86	18.56	4.15	0.00953	20.00		9.30	3.86
	L0000122	980180.37	3742332.86	18.61	4.15	0.00953	20.00		9.30	3.86
	L0000123	980164.15	3742344.57	18.76	4.15	0.00953	20.00		9.30	3.86
	L0000124	980147.93	3742356.27	18.88	4.15	0.00953	20.00		9.30	3.86
	L0000125	980131.70	3742367.96	18.97	4.15	0.00953	20.00		9.30	3.86
	L0000126	980115.03	3742378.98	19.14	4.15	0.00953	20.00		9.30	3.86
	L0000127	980097.94	3742389.37	19.26	4.15	0.00953	20.00		9.30	3.86
	L0000128	980080.05	3742398.24	19.35	4.15	0.00953	20.00		9.30	3.86
	L0000129	980061.79	3742406.38	19.45	4.15	0.00953	20.00		9.30	3.86
	L0000130	980043.21	3742413.75	19.55	4.15	0.00953	20.00		9.30	3.86
	L0000131	980024.35	3742420.41	19.62	4.15	0.00953	20.00		9.30	3.86
	L0000132	980005.20	3742426.01	19.85	4.15	0.00953	20.00		9.30	3.86
	L0000133	979985.62	3742430.10	20.09	4.15	0.00953	20.00		9.30	3.86
	L0000134	979966.04	3742434.19	20.27	4.15	0.00953	20.00		9.30	3.86
	L0000135	979946.28	3742437.20	20.44	4.15	0.00953	20.00		9.30	3.86
	L0000136	979926.45	3742439.83	20.57	4.15	0.00953	20.00		9.30	3.86
	L0000137	979906.63	3742442.45	20.64	4.15	0.00953	20.00		9.30	3.86

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF_1	L0000138	980361.23	3741659.23	16.47	4.15	0.01136	24.00		11.16	3.86
	L0000139	980367.34	3741682.44	16.40	4.15	0.01136	24.00		11.16	3.86
	L0000140	980373.46	3741705.64	16.31	4.15	0.01136	24.00		11.16	3.86
	L0000141	980379.58	3741728.85	16.26	4.15	0.01136	24.00		11.16	3.86
	L0000142	980385.70	3741752.06	16.31	4.15	0.01136	24.00		11.16	3.86
	L0000143	980391.82	3741775.26	16.46	4.15	0.01136	24.00		11.16	3.86
	L0000144	980397.94	3741798.47	16.63	4.15	0.01136	24.00		11.16	3.86
	L0000145	980404.06	3741821.68	16.82	4.15	0.01136	24.00		11.16	3.86
	L0000146	980413.58	3741843.67	16.97	4.15	0.01136	24.00		11.16	3.86
	L0000147	980423.52	3741865.51	17.07	4.15	0.01136	24.00		11.16	3.86
	L0000148	980433.47	3741887.36	17.13	4.15	0.01136	24.00		11.16	3.86
	L0000149	980443.41	3741909.20	17.04	4.15	0.01136	24.00		11.16	3.86
	L0000150	980453.35	3741931.04	16.92	4.15	0.01136	24.00		11.16	3.86
	L0000151	980465.12	3741951.86	16.79	4.15	0.01136	24.00		11.16	3.86
	L0000152	980478.71	3741971.63	16.71	4.15	0.01136	24.00		11.16	3.86
	L0000153	980492.31	3741991.41	16.77	4.15	0.01136	24.00		11.16	3.86
	L0000154	980505.91	3742011.19	16.88	4.15	0.01136	24.00		11.16	3.86
	L0000155	980519.50	3742030.97	17.08	4.15	0.01136	24.00		11.16	3.86
	L0000156	980533.10	3742050.74	17.31	4.15	0.01136	24.00		11.16	3.86
	L0000157	980547.21	3742070.16	17.66	4.15	0.01136	24.00		11.16	3.86
	L0000158	980561.44	3742089.48	18.13	4.15	0.01136	24.00		11.16	3.86
	L0000159	980575.67	3742108.81	18.69	4.15	0.01136	24.00		11.16	3.86
	L0000160	980589.90	3742128.14	19.35	4.15	0.01136	24.00		11.16	3.86
	L0000161	980604.13	3742147.46	20.20	4.15	0.01136	24.00		11.16	3.86
	L0000162	980616.80	3742167.80	21.05	4.15	0.01136	24.00		11.16	3.86

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
OFF_1	L0000163	980628.77	3742188.60	22.10	4.15	0.01136	24.00		11.16	3.86
	L0000164	980640.75	3742209.41	22.80	4.15	0.01136	24.00		11.16	3.86
	L0000165	980652.72	3742230.21	24.09	4.15	0.01136	24.00		11.16	3.86

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	979660.30	3742498.81	RES	19.96	
2	979660.30	3742518.81	RES	20.04	
3	979660.30	3742538.81	RES	20.10	
4	979660.30	3742558.81	RES	20.16	
5	979660.30	3742578.81	RES	20.25	
6	979660.30	3742598.81	RES	20.26	
7	979660.30	3742618.81	RES	20.30	
8	979660.30	3742638.81	RES	20.42	
9	979660.30	3742658.81	RES	20.49	
10	979660.30	3742678.81	RES	20.53	
11	979660.30	3742698.81	RES	20.51	
12	979660.30	3742718.81	RES	20.73	
13	979660.30	3742738.81	RES	21.08	
14	979660.30	3742758.81	RES	21.12	
15	979660.30	3742778.81	RES	21.10	
16	979680.30	3742498.81	RES	20.06	
17	979680.30	3742518.81	RES	20.14	
18	979680.30	3742538.81	RES	20.21	
19	979680.30	3742558.81	RES	20.28	
20	979680.30	3742578.81	RES	20.34	
21	979680.30	3742598.81	RES	20.33	
22	979680.30	3742618.81	RES	20.35	
23	979680.30	3742638.81	RES	20.51	
24	979680.30	3742658.81	RES	20.64	
25	979680.30	3742678.81	RES	20.73	
26	979680.30	3742698.81	RES	20.68	
27	979680.30	3742718.81	RES	20.93	
28	979680.30	3742738.81	RES	21.36	
29	979680.30	3742758.81	RES	21.30	
30	979680.30	3742778.81	RES	21.17	

31	979680.30	3742798.81	RES	20.96
32	979700.30	3742498.81	RES	20.19
33	979700.30	3742518.81	RES	20.27
34	979700.30	3742538.81	RES	20.36
35	979700.30	3742558.81	RES	20.44
36	979700.30	3742578.81	RES	20.47
37	979700.30	3742598.81	RES	20.47
38	979700.30	3742618.81	RES	20.50
39	979700.30	3742638.81	RES	20.68
40	979700.30	3742658.81	RES	20.81
41	979700.30	3742678.81	RES	20.90
42	979700.30	3742698.81	RES	20.85
43	979700.30	3742718.81	RES	21.07
44	979700.30	3742738.81	RES	21.49
45	979700.30	3742758.81	RES	21.39
46	979700.30	3742778.81	RES	21.24
47	979700.30	3742798.81	RES	21.05
48	979720.30	3742498.81	RES	20.32
49	979720.30	3742518.81	RES	20.42
50	979720.30	3742538.81	RES	20.51
51	979720.30	3742558.81	RES	20.58
52	979720.30	3742578.81	RES	20.59
53	979720.30	3742598.81	RES	20.61
54	979720.30	3742618.81	RES	20.65
55	979720.30	3742638.81	RES	20.85
56	979720.30	3742658.81	RES	20.98
57	979720.30	3742678.81	RES	21.05
58	979720.30	3742698.81	RES	21.03
59	979720.30	3742718.81	RES	21.21
60	979720.30	3742738.81	RES	21.59
61	979720.30	3742758.81	RES	21.48
62	979720.30	3742778.81	RES	21.36
63	979740.30	3742478.81	RES	20.28
64	979740.30	3742498.81	RES	20.42
65	979740.30	3742518.81	RES	20.52
66	979740.30	3742538.81	RES	20.61
67	979740.30	3742558.81	RES	20.68
68	979740.30	3742578.81	RES	20.70

69	979740.30	3742598.81	RES	20.74
70	979740.30	3742618.81	RES	20.80
71	979740.30	3742638.81	RES	21.00
72	979740.30	3742658.81	RES	21.11
73	979740.30	3742678.81	RES	21.15
74	979740.30	3742698.81	RES	21.19
75	979740.30	3742718.81	RES	21.35
76	979740.30	3742738.81	RES	21.67
77	979740.30	3742758.81	RES	21.55
78	979740.30	3742778.81	RES	21.39
79	979760.30	3742478.81	RES	20.37
80	979760.30	3742498.81	RES	20.44
81	979760.30	3742518.81	RES	20.54
82	979760.30	3742538.81	RES	20.64
83	979760.30	3742558.81	RES	20.74
84	979760.30	3742578.81	RES	20.80
85	979760.30	3742598.81	RES	20.87
86	979760.30	3742618.81	RES	20.96
87	979760.30	3742638.81	RES	21.15
88	979760.30	3742658.81	RES	21.25
89	979760.30	3742678.81	RES	21.25
90	979760.30	3742698.81	RES	21.33
91	979760.30	3742718.81	RES	21.49
92	979760.30	3742738.81	RES	21.72
93	979760.30	3742758.81	RES	21.61
94	979760.30	3742778.81	RES	21.46
95	979780.30	3742478.81	RES	20.44
96	979780.30	3742498.81	RES	20.50
97	979780.30	3742518.81	RES	20.56
98	979780.30	3742538.81	RES	20.66
99	979780.30	3742558.81	RES	20.77
100	979780.30	3742578.81	RES	20.84
101	979780.30	3742598.81	RES	20.96
102	979780.30	3742618.81	RES	21.13
103	979780.30	3742638.81	RES	21.32
104	979780.30	3742658.81	RES	21.40
105	979780.30	3742678.81	RES	21.35
106	979780.30	3742698.81	RES	21.44

107	979780.30	3742718.81	RES	21.57
108	979780.30	3742738.81	RES	21.71
109	979780.30	3742758.81	RES	21.60
110	979780.30	3742778.81	RES	21.48
111	979800.30	3742478.81	RES	20.53
112	979800.30	3742498.81	RES	20.59
113	979800.30	3742518.81	RES	20.62
114	979800.30	3742538.81	RES	20.73
115	979800.30	3742558.81	RES	20.91
116	979800.30	3742578.81	RES	21.00
117	979800.30	3742598.81	RES	21.10
118	979800.30	3742618.81	RES	21.22
119	979800.30	3742638.81	RES	21.42
120	979800.30	3742658.81	RES	21.51
121	979800.30	3742678.81	RES	21.41
122	979800.30	3742698.81	RES	21.47
123	979800.30	3742718.81	RES	21.56
124	979800.30	3742738.81	RES	21.62
125	979800.30	3742758.81	RES	21.50
126	979800.30	3742778.81	RES	21.39
127	979820.30	3742478.81	RES	20.72
128	979820.30	3742498.81	RES	20.79
129	979820.30	3742518.81	RES	20.81
130	979820.30	3742538.81	RES	20.90
131	979820.30	3742558.81	RES	21.04
132	979820.30	3742578.81	RES	21.08
133	979820.30	3742598.81	RES	21.14
134	979820.30	3742618.81	RES	21.24
135	979820.30	3742638.81	RES	21.47
136	979820.30	3742658.81	RES	21.57
137	979820.30	3742678.81	RES	21.38
138	979820.30	3742698.81	RES	21.37
139	979820.30	3742718.81	RES	21.41
140	979820.30	3742738.81	RES	21.44
141	979820.30	3742758.81	RES	21.28
142	979820.30	3742778.81	RES	21.08
143	979840.30	3742478.81	RES	20.99
144	979840.30	3742498.81	RES	21.12

145	979840.30	3742518.81	RES	21.15
146	979840.30	3742538.81	RES	21.18
147	979840.30	3742558.81	RES	21.19
148	979840.30	3742578.81	RES	21.11
149	979840.30	3742598.81	RES	21.08
150	979840.30	3742618.81	RES	21.14
151	979840.30	3742638.81	RES	21.27
152	979840.30	3742658.81	RES	21.32
153	979840.30	3742678.81	RES	21.15
154	979840.30	3742698.81	RES	21.15
155	979840.30	3742718.81	RES	21.20
156	979840.30	3742738.81	RES	21.19
157	979840.30	3742758.81	RES	21.07
158	979840.30	3742778.81	RES	20.91
159	979860.30	3742478.81	RES	21.09
160	979860.30	3742498.81	RES	21.28
161	979860.30	3742518.81	RES	21.44
162	979860.30	3742538.81	RES	21.51
163	979860.30	3742558.81	RES	21.42
164	979860.30	3742578.81	RES	21.18
165	979860.30	3742598.81	RES	20.98
166	979860.30	3742618.81	RES	20.95
167	979860.30	3742638.81	RES	20.95
168	979860.30	3742658.81	RES	20.95
169	979860.30	3742678.81	RES	20.92
170	979860.30	3742698.81	RES	20.98
171	979860.30	3742718.81	RES	21.06
172	979860.30	3742738.81	RES	21.00
173	979860.30	3742758.81	RES	20.91
174	979860.30	3742778.81	RES	20.80
175	979880.30	3742458.81	RES	20.87
176	979880.30	3742478.81	RES	21.14
177	979880.30	3742498.81	RES	21.35
178	979880.30	3742518.81	RES	21.52
179	979880.30	3742538.81	RES	21.61
180	979880.30	3742558.81	RES	21.56
181	979880.30	3742578.81	RES	21.27
182	979880.30	3742598.81	RES	21.04

183	979880.30	3742618.81	RES	21.14
184	979880.30	3742638.81	RES	21.17
185	979880.30	3742658.81	RES	21.16
186	979880.30	3742678.81	RES	21.04
187	979880.30	3742698.81	RES	21.05
188	979880.30	3742718.81	RES	21.11
189	979880.30	3742738.81	RES	20.96
190	979880.30	3742758.81	RES	20.81
191	979900.30	3742458.81	RES	20.86
192	979900.30	3742478.81	RES	21.10
193	979900.30	3742498.81	RES	21.29
194	979900.30	3742518.81	RES	21.47
195	979900.30	3742538.81	RES	21.58
196	979900.30	3742558.81	RES	21.58
197	979900.30	3742578.81	RES	21.34
198	979900.30	3742598.81	RES	21.13
199	979900.30	3742618.81	RES	21.26
200	979900.30	3742638.81	RES	21.32
201	979900.30	3742658.81	RES	21.32
202	979900.30	3742678.81	RES	21.20
203	979900.30	3742698.81	RES	21.23
204	979900.30	3742718.81	RES	21.34
205	979900.30	3742738.81	RES	21.12
206	979900.30	3742758.81	RES	20.80
207	979920.30	3742458.81	RES	20.79
208	979920.30	3742478.81	RES	20.98
209	979920.30	3742498.81	RES	21.17
210	979920.30	3742518.81	RES	21.36
211	979920.30	3742538.81	RES	21.52
212	979920.30	3742558.81	RES	21.53
213	979920.30	3742578.81	RES	21.34
214	979920.30	3742598.81	RES	21.16
215	979920.30	3742618.81	RES	21.36
216	979920.30	3742638.81	RES	21.43
217	979920.30	3742658.81	RES	21.41
218	979920.30	3742678.81	RES	21.33
219	979920.30	3742698.81	RES	21.37
220	979920.30	3742718.81	RES	21.50

221	979920.30	3742738.81	RES	21.21
222	979920.30	3742758.81	RES	20.94
223	979940.30	3742458.81	RES	20.69
224	979940.30	3742478.81	RES	20.87
225	979940.30	3742498.81	RES	21.09
226	979940.30	3742518.81	RES	21.34
227	979940.30	3742538.81	RES	21.51
228	979940.30	3742558.81	RES	21.42
229	979940.30	3742578.81	RES	21.26
230	979940.30	3742598.81	RES	21.12
231	979940.30	3742618.81	RES	21.38
232	979940.30	3742638.81	RES	21.47
233	979940.30	3742658.81	RES	21.42
234	979940.30	3742678.81	RES	21.39
235	979940.30	3742698.81	RES	21.43
236	979940.30	3742718.81	RES	21.54
237	979940.30	3742738.81	RES	21.21
238	979940.30	3742758.81	RES	20.96
239	979960.30	3742458.81	RES	20.56
240	979960.30	3742478.81	RES	20.73
241	979960.30	3742498.81	RES	20.96
242	979960.30	3742518.81	RES	21.20
243	979960.30	3742538.81	RES	21.38
244	979960.30	3742558.81	RES	21.25
245	979960.30	3742578.81	RES	21.11
246	979960.30	3742598.81	RES	21.00
247	979960.30	3742618.81	RES	21.29
248	979960.30	3742638.81	RES	21.40
249	979960.30	3742658.81	RES	21.34
250	979960.30	3742678.81	RES	21.35
251	979960.30	3742698.81	RES	21.38
252	979960.30	3742718.81	RES	21.45
253	979960.30	3742738.81	RES	21.12
254	979960.30	3742758.81	RES	20.84
255	979980.30	3742458.81	RES	20.41
256	979980.30	3742478.81	RES	20.57
257	979980.30	3742498.81	RES	20.78
258	979980.30	3742518.81	RES	20.98

259	979980.30	3742538.81	RES	21.14
260	979980.30	3742558.81	RES	21.05
261	979980.30	3742578.81	RES	20.93
262	979980.30	3742598.81	RES	20.80
263	979980.30	3742618.81	RES	21.07
264	979980.30	3742638.81	RES	21.17
265	979980.30	3742658.81	RES	21.11
266	979980.30	3742678.81	RES	21.15
267	979980.30	3742698.81	RES	21.21
268	979980.30	3742718.81	RES	21.27
269	979980.30	3742738.81	RES	20.91
270	979980.30	3742758.81	RES	20.58
271	980000.30	3742458.81	RES	20.18
272	980000.30	3742478.81	RES	20.34
273	980000.30	3742498.81	RES	20.51
274	980000.30	3742518.81	RES	20.69
275	980000.30	3742538.81	RES	20.86
276	980000.30	3742558.81	RES	20.80
277	980000.30	3742578.81	RES	20.71
278	980000.30	3742598.81	RES	20.61
279	980000.30	3742618.81	RES	20.84
280	980000.30	3742638.81	RES	20.89
281	980000.30	3742658.81	RES	20.70
282	980000.30	3742678.81	RES	20.78
283	980000.30	3742698.81	RES	20.88
284	980000.30	3742718.81	RES	20.97
285	980000.30	3742738.81	RES	20.73
286	980000.30	3742758.81	RES	20.49
287	980020.30	3742518.81	RES	20.33
288	980020.30	3742538.81	RES	20.52
289	980020.30	3742558.81	RES	20.48
290	980020.30	3742578.81	RES	20.43
291	980020.30	3742598.81	RES	20.40
292	980020.30	3742618.81	RES	20.58
293	980020.30	3742638.81	RES	20.61
294	980020.30	3742658.81	RES	20.38
295	980020.30	3742678.81	RES	20.49
296	980020.30	3742698.81	RES	20.65

297	980020.30	3742718.81	RES	20.75
298	980020.30	3742738.81	RES	20.61
299	980020.30	3742758.81	RES	20.47
300	980040.30	3742638.81	RES	20.36
301	980040.30	3742658.81	RES	20.23
302	980040.30	3742678.81	RES	20.34
303	980040.30	3742698.81	RES	20.47
304	980040.30	3742718.81	RES	20.54
305	980040.30	3742738.81	RES	20.47
306	980047.32	3742438.94	RES	19.50
307	980047.32	3742458.94	RES	19.54
308	980047.32	3742478.94	RES	19.63
309	980047.32	3742498.94	RES	19.73
310	980047.32	3742518.94	RES	19.83
311	980047.32	3742538.94	RES	19.93
312	980067.32	3742418.94	RES	19.54
313	980067.32	3742438.94	RES	19.61
314	980067.32	3742458.94	RES	19.66
315	980067.32	3742478.94	RES	19.67
316	980067.32	3742498.94	RES	19.74
317	980067.32	3742518.94	RES	19.80
318	980067.32	3742538.94	RES	19.83
319	980067.32	3742558.94	RES	19.82
320	980067.32	3742578.94	RES	19.83
321	980087.32	3742418.94	RES	19.57
322	980087.32	3742438.94	RES	19.76
323	980087.32	3742458.94	RES	19.86
324	980087.32	3742478.94	RES	19.84
325	980087.32	3742498.94	RES	19.90
326	980087.32	3742518.94	RES	19.93
327	980087.32	3742538.94	RES	19.90
328	980087.32	3742558.94	RES	19.87
329	980087.32	3742578.94	RES	19.87
330	980107.32	3742398.94	RES	19.38
331	980107.32	3742418.94	RES	19.62
332	980107.32	3742438.94	RES	19.87
333	980107.32	3742458.94	RES	20.01
334	980107.32	3742478.94	RES	20.03

335	980107.32	3742498.94	RES	20.07
336	980107.32	3742518.94	RES	20.08
337	980107.32	3742538.94	RES	20.05
338	980107.32	3742558.94	RES	20.01
339	980107.32	3742578.94	RES	19.98
340	980127.32	3742398.94	RES	19.43
341	980127.32	3742418.94	RES	19.68
342	980127.32	3742438.94	RES	19.89
343	980127.32	3742458.94	RES	20.05
344	980127.32	3742478.94	RES	20.16
345	980127.32	3742498.94	RES	20.20
346	980127.32	3742518.94	RES	20.21
347	980127.32	3742538.94	RES	20.20
348	980127.32	3742558.94	RES	20.17
349	980127.32	3742578.94	RES	20.15
350	980127.32	3742598.94	RES	20.14
351	980147.32	3742378.94	RES	19.27
352	980147.32	3742398.94	RES	19.54
353	980147.32	3742418.94	RES	19.69
354	980147.32	3742438.94	RES	19.83
355	980147.32	3742458.94	RES	19.97
356	980147.32	3742478.94	RES	20.13
357	980147.32	3742498.94	RES	20.24
358	980147.32	3742518.94	RES	20.31
359	980147.32	3742538.94	RES	20.30
360	980147.32	3742558.94	RES	20.31
361	980147.32	3742578.94	RES	20.32
362	980147.32	3742598.94	RES	20.34
363	980147.32	3742618.94	RES	20.43
364	980167.32	3742378.94	RES	19.31
365	980167.32	3742398.94	RES	19.53
366	980167.32	3742418.94	RES	19.73
367	980167.32	3742438.94	RES	19.87
368	980167.32	3742458.94	RES	20.01
369	980167.32	3742478.94	RES	20.19
370	980167.32	3742498.94	RES	20.29
371	980167.32	3742518.94	RES	20.33
372	980167.32	3742538.94	RES	20.36

373	980167.32	3742558.94	RES	20.34
374	980167.32	3742578.94	RES	20.29
375	980167.32	3742598.94	RES	20.31
376	980167.32	3742618.94	RES	20.43
377	980167.32	3742638.94	RES	20.62
378	980167.32	3742658.94	RES	20.80
379	980187.32	3742358.94	RES	19.11
380	980187.32	3742378.94	RES	19.26
381	980187.32	3742398.94	RES	19.43
382	980187.32	3742418.94	RES	19.67
383	980187.32	3742438.94	RES	19.85
384	980187.32	3742458.94	RES	20.02
385	980187.32	3742478.94	RES	20.17
386	980187.32	3742498.94	RES	20.22
387	980187.32	3742518.94	RES	20.22
388	980187.32	3742538.94	RES	20.25
389	980187.32	3742558.94	RES	20.29
390	980187.32	3742578.94	RES	20.36
391	980187.32	3742598.94	RES	20.44
392	980187.32	3742618.94	RES	20.61
393	980187.32	3742638.94	RES	20.86
394	980187.32	3742658.94	RES	20.93
395	980187.32	3742678.94	RES	20.90
396	980207.32	3742338.94	RES	18.87
397	980207.32	3742358.94	RES	19.03
398	980207.32	3742378.94	RES	19.15
399	980207.32	3742398.94	RES	19.30
400	980207.32	3742418.94	RES	19.53
401	980207.32	3742438.94	RES	19.78
402	980207.32	3742458.94	RES	20.00
403	980207.32	3742478.94	RES	20.08
404	980207.32	3742498.94	RES	20.10
405	980207.32	3742518.94	RES	20.08
406	980207.32	3742538.94	RES	20.10
407	980207.32	3742558.94	RES	20.20
408	980207.32	3742578.94	RES	20.37
409	980207.32	3742598.94	RES	20.58
410	980207.32	3742618.94	RES	20.79

411	980207.32	3742638.94	RES	20.97
412	980207.32	3742658.94	RES	20.92
413	980207.32	3742678.94	RES	20.88
414	980207.32	3742698.94	RES	20.93
415	980227.32	3742338.94	RES	18.91
416	980227.32	3742358.94	RES	18.95
417	980227.32	3742378.94	RES	19.13
418	980227.32	3742398.94	RES	19.35
419	980227.32	3742418.94	RES	19.53
420	980227.32	3742438.94	RES	19.76
421	980227.32	3742458.94	RES	19.98
422	980227.32	3742478.94	RES	19.98
423	980227.32	3742498.94	RES	19.98
424	980227.32	3742518.94	RES	19.97
425	980227.32	3742538.94	RES	19.99
426	980227.32	3742558.94	RES	20.12
427	980227.32	3742578.94	RES	20.36
428	980227.32	3742598.94	RES	20.66
429	980227.32	3742618.94	RES	20.88
430	980227.32	3742638.94	RES	20.96
431	980227.32	3742658.94	RES	20.89
432	980227.32	3742678.94	RES	20.88
433	980227.32	3742698.94	RES	21.04
434	980227.32	3742718.94	RES	21.12
435	980227.32	3742738.94	RES	21.20
436	980247.32	3742318.94	RES	18.81
437	980247.32	3742338.94	RES	18.91
438	980247.32	3742358.94	RES	19.02
439	980247.32	3742378.94	RES	19.18
440	980247.32	3742398.94	RES	19.35
441	980247.32	3742418.94	RES	19.55
442	980247.32	3742438.94	RES	19.78
443	980247.32	3742458.94	RES	19.99
444	980247.32	3742478.94	RES	19.99
445	980247.32	3742498.94	RES	19.95
446	980247.32	3742518.94	RES	19.89
447	980247.32	3742538.94	RES	19.98
448	980247.32	3742558.94	RES	20.15

449	980247.32	3742578.94	RES	20.42
450	980247.32	3742598.94	RES	20.65
451	980247.32	3742618.94	RES	20.79
452	980247.32	3742638.94	RES	20.82
453	980247.32	3742658.94	RES	20.84
454	980247.32	3742678.94	RES	20.90
455	980247.32	3742698.94	RES	21.03
456	980247.32	3742718.94	RES	21.14
457	980247.32	3742738.94	RES	21.26
458	980247.32	3742758.94	RES	21.37
459	980267.32	3742298.94	RES	18.83
460	980267.32	3742318.94	RES	18.86
461	980267.32	3742338.94	RES	18.88
462	980267.32	3742358.94	RES	19.08
463	980267.32	3742378.94	RES	19.23
464	980267.32	3742398.94	RES	19.36
465	980267.32	3742418.94	RES	19.54
466	980267.32	3742438.94	RES	19.74
467	980267.32	3742458.94	RES	19.93
468	980267.32	3742478.94	RES	19.93
469	980267.32	3742498.94	RES	19.92
470	980267.32	3742518.94	RES	19.90
471	980267.32	3742538.94	RES	20.00
472	980267.32	3742558.94	RES	20.16
473	980267.32	3742578.94	RES	20.41
474	980267.32	3742598.94	RES	20.50
475	980267.32	3742618.94	RES	20.55
476	980267.32	3742638.94	RES	20.57
477	980267.32	3742658.94	RES	20.74
478	980267.32	3742678.94	RES	20.91
479	980267.32	3742698.94	RES	20.90
480	980267.32	3742718.94	RES	21.07
481	980267.32	3742738.94	RES	21.30
482	980267.32	3742758.94	RES	21.49
483	980267.32	3742778.94	RES	21.48
484	980287.32	3742278.94	RES	18.85
485	980287.32	3742298.94	RES	18.91
486	980287.32	3742318.94	RES	18.89

487	980287.32	3742338.94	RES	18.90
488	980287.32	3742358.94	RES	19.08
489	980287.32	3742378.94	RES	19.24
490	980287.32	3742398.94	RES	19.39
491	980287.32	3742418.94	RES	19.53
492	980287.32	3742438.94	RES	19.66
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496	980287.32	3742518.94	RES	19.93
497	980287.32	3742538.94	RES	20.05
498	980287.32	3742558.94	RES	20.20
499	980287.32	3742578.94	RES	20.37
500	980287.32	3742598.94	RES	20.34
501	980287.32	3742618.94	RES	20.31
502	980287.32	3742638.94	RES	20.49
503	980287.32	3742658.94	RES	20.68
504	980287.32	3742678.94	RES	20.85
505	980287.32	3742698.94	RES	20.92
506	980287.32	3742718.94	RES	21.01
507	980287.32	3742738.94	RES	21.11
508	980287.32	3742758.94	RES	21.29
509	980287.32	3742778.94	RES	21.26
510	980307.32	3742278.94	RES	18.95
511	980307.32	3742298.94	RES	19.01
512	980307.32	3742318.94	RES	19.09
513	980307.32	3742338.94	RES	19.19
514	980307.32	3742358.94	RES	19.13
515	980307.32	3742378.94	RES	19.22
516	980307.32	3742398.94	RES	19.42
517	980307.32	3742418.94	RES	19.52
518	980307.32	3742438.94	RES	19.60
519	980307.32	3742458.94	RES	19.64
520	980307.32	3742478.94	RES	19.69
521	980307.32	3742498.94	RES	19.79
522	980307.32	3742518.94	RES	19.96
523	980307.32	3742538.94	RES	20.12
524	980307.32	3742558.94	RES	20.24

525	980307.32	3742578.94	RES	20.31
526	980307.32	3742598.94	RES	20.25
527	980307.32	3742618.94	RES	20.24
528	980307.32	3742638.94	RES	20.49
529	980307.32	3742658.94	RES	20.66
530	980307.32	3742678.94	RES	20.78
531	980307.32	3742698.94	RES	20.92
532	980307.32	3742718.94	RES	21.01
533	980307.32	3742738.94	RES	21.04
534	980307.32	3742758.94	RES	21.02
535	980307.32	3742778.94	RES	20.96
536	980327.32	3742258.94	RES	18.84
537	980327.32	3742278.94	RES	19.00
538	980327.32	3742298.94	RES	19.09
539	980327.32	3742318.94	RES	19.20
540	980327.32	3742338.94	RES	19.30
541	980327.32	3742358.94	RES	19.30
542	980327.32	3742378.94	RES	19.33
543	980327.32	3742398.94	RES	19.36
544	980327.32	3742418.94	RES	19.43
545	980327.32	3742438.94	RES	19.51
546	980327.32	3742458.94	RES	19.60
547	980327.32	3742478.94	RES	19.68
548	980327.32	3742498.94	RES	19.81
549	980327.32	3742518.94	RES	20.06
550	980327.32	3742538.94	RES	20.20
551	980327.32	3742558.94	RES	20.27
552	980327.32	3742578.94	RES	20.22
553	980327.32	3742598.94	RES	20.24
554	980327.32	3742618.94	RES	20.32
555	980327.32	3742638.94	RES	20.50
556	980327.32	3742658.94	RES	20.64
557	980327.32	3742678.94	RES	20.75
558	980327.32	3742698.94	RES	20.88
559	980327.32	3742718.94	RES	20.94
560	980327.32	3742738.94	RES	20.92
561	980327.32	3742758.94	RES	20.82
562	980347.32	3742258.94	RES	18.77

563	980347.32	3742278.94	RES	19.00
564	980347.32	3742298.94	RES	19.17
565	980347.32	3742318.94	RES	19.29
566	980347.32	3742338.94	RES	19.35
567	980347.32	3742358.94	RES	19.42
568	980347.32	3742378.94	RES	19.44
569	980347.32	3742398.94	RES	19.40
570	980347.32	3742418.94	RES	19.35
571	980347.32	3742438.94	RES	19.35
572	980347.32	3742458.94	RES	19.47
573	980347.32	3742478.94	RES	19.60
574	980347.32	3742498.94	RES	19.77
575	980347.32	3742518.94	RES	19.99
576	980347.32	3742538.94	RES	20.11
577	980347.32	3742558.94	RES	20.16
578	980347.32	3742578.94	RES	20.10
579	980347.32	3742598.94	RES	20.18
580	980347.32	3742618.94	RES	20.33
581	980347.32	3742638.94	RES	20.45
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586	980347.32	3742738.94	RES	20.71
587	980367.32	3742298.94	RES	19.21
588	980367.32	3742318.94	RES	19.35
589	980367.32	3742338.94	RES	19.38
590	980367.32	3742358.94	RES	19.47
591	980367.32	3742378.94	RES	19.49
592	980367.32	3742398.94	RES	19.44
593	980367.32	3742418.94	RES	19.35
594	980367.32	3742438.94	RES	19.30
595	980367.32	3742458.94	RES	19.31
596	980367.32	3742478.94	RES	19.45
597	980367.32	3742498.94	RES	19.63
598	980367.32	3742518.94	RES	19.84
599	980367.32	3742538.94	RES	19.92
600	980367.32	3742558.94	RES	19.96

601	980367.32	3742578.94	RES	20.06
602	980367.32	3742598.94	RES	20.16
603	980367.32	3742618.94	RES	20.26
604	980367.32	3742638.94	RES	20.42
605	980367.32	3742658.94	RES	20.57
606	980367.32	3742678.94	RES	20.70
607	980367.32	3742698.94	RES	20.66
608	980367.32	3742718.94	RES	20.61
609	980387.32	3742318.94	RES	19.26
610	980387.32	3742338.94	RES	19.45
611	980387.32	3742358.94	RES	19.49
612	980387.32	3742378.94	RES	19.47
613	980387.32	3742398.94	RES	19.40
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617	980387.32	3742478.94	RES	19.25
618	980387.32	3742498.94	RES	19.41
619	980387.32	3742518.94	RES	19.62
620	980387.32	3742538.94	RES	19.73
621	980387.32	3742558.94	RES	19.81
622	980387.32	3742578.94	RES	19.99
623	980387.32	3742598.94	RES	20.12
624	980387.32	3742618.94	RES	20.20
625	980387.32	3742638.94	RES	20.37
626	980387.32	3742658.94	RES	20.49
627	980387.32	3742678.94	RES	20.54
628	980387.32	3742698.94	RES	20.51
629	980407.32	3742358.94	RES	19.32
630	980407.32	3742378.94	RES	19.39
631	980407.32	3742398.94	RES	19.39
632	980407.32	3742418.94	RES	19.20
633	980407.32	3742438.94	RES	19.00
634	980407.32	3742458.94	RES	19.04
635	980407.32	3742478.94	RES	19.09
636	980407.32	3742498.94	RES	19.17
637	980407.32	3742518.94	RES	19.39
638	980407.32	3742538.94	RES	19.59

639	980407.32	3742558.94	RES	19.78
640	980407.32	3742578.94	RES	19.92
641	980407.32	3742598.94	RES	20.05
642	980407.32	3742618.94	RES	20.18
643	980407.32	3742638.94	RES	20.31
644	980407.32	3742658.94	RES	20.38
645	980407.32	3742678.94	RES	20.40
646	980407.32	3742698.94	RES	20.39
647	980427.32	3742378.94	RES	19.03
648	980427.32	3742398.94	RES	19.02
649	980427.32	3742418.94	RES	18.85
650	980427.32	3742438.94	RES	18.71
651	980427.32	3742458.94	RES	18.94
652	980427.32	3742478.94	RES	19.10
653	980427.32	3742498.94	RES	19.22
654	980427.32	3742518.94	RES	19.44
655	980427.32	3742538.94	RES	19.64
656	980427.32	3742558.94	RES	19.82
657	980427.32	3742578.94	RES	19.86
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663	980447.32	3742438.94	RES	18.48
664	980447.32	3742458.94	RES	18.79
665	980447.32	3742478.94	RES	19.05
666	980447.32	3742498.94	RES	19.26
667	980447.32	3742518.94	RES	19.45
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669	980447.32	3742558.94	RES	19.57
670	980447.32	3742578.94	RES	19.72
671	980447.32	3742598.94	RES	19.90
672	980447.32	3742618.94	RES	20.06
673	980447.32	3742638.94	RES	20.11
674	980447.32	3742658.94	RES	20.15
675	980467.32	3742478.94	RES	18.84
676	980467.32	3742498.94	RES	19.14

677	980467.32	3742518.94	RES	19.33
678	980467.32	3742538.94	RES	19.38
679	980467.32	3742558.94	RES	19.26
680	980467.32	3742618.94	RES	19.89
681	980467.32	3742638.94	RES	20.00
682	980487.32	3742518.94	RES	19.06
683	980487.32	3742538.94	RES	19.14
684	980077.18	3742616.83	PAR	20.05
685	980077.18	3742636.83	PAR	20.26
686	980077.18	3742656.83	PAR	20.55
687	980077.18	3742676.83	PAR	20.68
688	980077.18	3742696.83	PAR	20.68
689	980077.18	3742716.83	PAR	20.55
690	980077.18	3742736.83	PAR	20.45
691	980097.18	3742616.83	PAR	20.12
692	980097.18	3742636.83	PAR	20.39
693	980097.18	3742656.83	PAR	20.78
694	980097.18	3742676.83	PAR	20.96
695	980097.18	3742696.83	PAR	20.96
696	980097.18	3742716.83	PAR	20.69
697	980097.18	3742736.83	PAR	20.55
698	980117.18	3742636.83	PAR	20.48
699	980117.18	3742656.83	PAR	20.83
700	980117.18	3742676.83	PAR	21.00
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703	980117.18	3742736.83	PAR	20.59
704	980137.18	3742656.83	PAR	20.81
705	980137.18	3742676.83	PAR	20.94
706	980137.18	3742696.83	PAR	20.86
707	980137.18	3742716.83	PAR	20.62
708	980137.18	3742736.83	PAR	20.58
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711	980177.18	3742716.83	PAR	20.77
712	980089.92	3741804.77	SCH	17.51
713	980089.92	3741824.77	SCH	17.50
714	980089.92	3741844.77	SCH	17.49

715	980089.92	3741864.77	SCH	17.48
716	980089.92	3741884.77	SCH	17.50
717	980089.92	3741904.77	SCH	17.51
718	980089.92	3741924.77	SCH	17.51
719	980089.92	3741944.77	SCH	17.53
720	980089.92	3741964.77	SCH	17.60
721	980089.92	3741984.77	SCH	17.73
722	980089.92	3742004.77	SCH	17.79
723	980089.92	3742024.77	SCH	17.88
724	980109.92	3741804.77	SCH	17.01
725	980109.92	3741824.77	SCH	17.12
726	980109.92	3741844.77	SCH	17.17
727	980109.92	3741864.77	SCH	17.19
728	980109.92	3741884.77	SCH	17.14
729	980109.92	3741904.77	SCH	17.12
730	980109.92	3741924.77	SCH	17.14
731	980109.92	3741944.77	SCH	17.24
732	980109.92	3741964.77	SCH	17.37
733	980109.92	3741984.77	SCH	17.53
734	980109.92	3742004.77	SCH	17.68
735	980109.92	3742024.77	SCH	17.81
736	980129.92	3741784.77	SCH	16.84
737	980129.92	3741804.77	SCH	16.83
738	980129.92	3741824.77	SCH	16.98
739	980129.92	3741844.77	SCH	17.06
740	980129.92	3741864.77	SCH	17.08
741	980129.92	3741884.77	SCH	16.92
742	980129.92	3741904.77	SCH	16.85
743	980129.92	3741924.77	SCH	16.84
744	980129.92	3741944.77	SCH	17.00
745	980129.92	3741964.77	SCH	17.17
746	980129.92	3741984.77	SCH	17.36
747	980129.92	3742004.77	SCH	17.59
748	980129.92	3742024.77	SCH	17.79
749	980149.92	3741764.77	SCH	16.72
750	980149.92	3741784.77	SCH	16.69
751	980149.92	3741804.77	SCH	16.79
752	980149.92	3741824.77	SCH	16.94

753	980149.92	3741844.77	SCH	17.06
754	980149.92	3741864.77	SCH	17.15
755	980149.92	3741884.77	SCH	17.01
756	980149.92	3741904.77	SCH	16.86
757	980149.92	3741924.77	SCH	16.70
758	980149.92	3741944.77	SCH	16.84
759	980149.92	3741964.77	SCH	17.04
760	980149.92	3741984.77	SCH	17.25
761	980149.92	3742004.77	SCH	17.53
762	980149.92	3742024.77	SCH	17.79
763	980149.92	3742044.77	SCH	17.92
764	980169.92	3741744.77	SCH	16.64
765	980169.92	3741764.77	SCH	16.56
766	980169.92	3741784.77	SCH	16.62
767	980169.92	3741804.77	SCH	16.78
768	980169.92	3741824.77	SCH	16.89
769	980169.92	3741844.77	SCH	16.99
770	980169.92	3741864.77	SCH	17.09
771	980169.92	3741884.77	SCH	17.08
772	980169.92	3741904.77	SCH	17.05
773	980169.92	3741924.77	SCH	16.98
774	980169.92	3741944.77	SCH	16.98
775	980169.92	3741964.77	SCH	17.02
776	980169.92	3741984.77	SCH	17.17
777	980169.92	3742004.77	SCH	17.45
778	980169.92	3742024.77	SCH	17.74
779	980169.92	3742044.77	SCH	17.96
780	980189.92	3741744.77	SCH	16.36
781	980189.92	3741764.77	SCH	16.46
782	980189.92	3741784.77	SCH	16.60
783	980189.92	3741804.77	SCH	16.77
784	980189.92	3741824.77	SCH	16.85
785	980189.92	3741844.77	SCH	16.94
786	980189.92	3741864.77	SCH	17.03
787	980189.92	3741884.77	SCH	17.15
788	980189.92	3741904.77	SCH	17.25
789	980189.92	3741924.77	SCH	17.33
790	980189.92	3741944.77	SCH	17.28

791	980189.92	3741964.77	SCH	17.21
792	980189.92	3741984.77	SCH	17.14
793	980189.92	3742004.77	SCH	17.30
794	980189.92	3742024.77	SCH	17.56
795	980189.92	3742044.77	SCH	17.88
796	980209.92	3741724.77	SCH	16.33
797	980209.92	3741744.77	SCH	16.26
798	980209.92	3741764.77	SCH	16.43
799	980209.92	3741784.77	SCH	16.59
800	980209.92	3741804.77	SCH	16.75
801	980209.92	3741824.77	SCH	16.83
802	980209.92	3741844.77	SCH	16.93
803	980209.92	3741864.77	SCH	17.05
804	980209.92	3741884.77	SCH	17.24
805	980209.92	3741904.77	SCH	17.43
806	980209.92	3741924.77	SCH	17.63
807	980209.92	3741944.77	SCH	17.60
808	980209.92	3741964.77	SCH	17.46
809	980209.92	3741984.77	SCH	17.20
810	980209.92	3742004.77	SCH	17.19
811	980209.92	3742024.77	SCH	17.35
812	980209.92	3742044.77	SCH	17.75
813	980209.92	3742064.77	SCH	17.97
814	980229.92	3741704.77	SCH	16.26
815	980229.92	3741724.77	SCH	16.15
816	980229.92	3741744.77	SCH	16.23
817	980229.92	3741764.77	SCH	16.38
818	980229.92	3741784.77	SCH	16.52
819	980229.92	3741804.77	SCH	16.65
820	980229.92	3741824.77	SCH	16.79
821	980229.92	3741844.77	SCH	16.95
822	980229.92	3741864.77	SCH	17.16
823	980229.92	3741884.77	SCH	17.36
824	980229.92	3741904.77	SCH	17.57
825	980229.92	3741924.77	SCH	17.81
826	980229.92	3741944.77	SCH	17.82
827	980229.92	3741964.77	SCH	17.68
828	980229.92	3741984.77	SCH	17.30

829	980229.92	3742004.77	SCH	17.17
830	980229.92	3742024.77	SCH	17.20
831	980229.92	3742044.77	SCH	17.62
832	980229.92	3742064.77	SCH	17.87
833	980249.92	3741704.77	SCH	16.07
834	980249.92	3741724.77	SCH	16.05
835	980249.92	3741744.77	SCH	16.19
836	980249.92	3741764.77	SCH	16.33
837	980249.92	3741784.77	SCH	16.45
838	980249.92	3741804.77	SCH	16.57
839	980249.92	3741824.77	SCH	16.74
840	980249.92	3741844.77	SCH	16.95
841	980249.92	3741864.77	SCH	17.20
842	980249.92	3741884.77	SCH	17.41
843	980249.92	3741904.77	SCH	17.62
844	980249.92	3741924.77	SCH	17.91
845	980249.92	3741944.77	SCH	17.95
846	980249.92	3741964.77	SCH	17.83
847	980249.92	3741984.77	SCH	17.44
848	980249.92	3742004.77	SCH	17.23
849	980249.92	3742024.77	SCH	17.19
850	980249.92	3742044.77	SCH	17.55
851	980249.92	3742064.77	SCH	17.82
852	980249.92	3742084.77	SCH	17.99
853	980269.92	3741684.77	SCH	15.98
854	980269.92	3741704.77	SCH	15.93
855	980269.92	3741724.77	SCH	16.00
856	980269.92	3741744.77	SCH	16.14
857	980269.92	3741764.77	SCH	16.28
858	980269.92	3741784.77	SCH	16.41
859	980269.92	3741804.77	SCH	16.54
860	980269.92	3741824.77	SCH	16.74
861	980269.92	3741844.77	SCH	16.96
862	980269.92	3741864.77	SCH	17.20
863	980269.92	3741884.77	SCH	17.42
864	980269.92	3741904.77	SCH	17.65
865	980269.92	3741924.77	SCH	17.83
866	980269.92	3741944.77	SCH	17.87

867	980269.92	3741964.77	SCH	17.81
868	980269.92	3741984.77	SCH	17.53
869	980269.92	3742004.77	SCH	17.37
870	980269.92	3742024.77	SCH	17.32
871	980269.92	3742044.77	SCH	17.57
872	980269.92	3742064.77	SCH	17.80
873	980269.92	3742084.77	SCH	18.02
874	980269.92	3742104.77	SCH	18.10
875	980289.92	3741684.77	SCH	15.88
876	980289.92	3741704.77	SCH	15.82
877	980289.92	3741724.77	SCH	15.94
878	980289.92	3741744.77	SCH	16.09
879	980289.92	3741764.77	SCH	16.24
880	980289.92	3741784.77	SCH	16.40
881	980289.92	3741804.77	SCH	16.58
882	980289.92	3741824.77	SCH	16.80
883	980289.92	3741844.77	SCH	17.02
884	980289.92	3741864.77	SCH	17.23
885	980289.92	3741884.77	SCH	17.46
886	980289.92	3741904.77	SCH	17.66
887	980289.92	3741924.77	SCH	17.71
888	980289.92	3741944.77	SCH	17.76
889	980289.92	3741964.77	SCH	17.80
890	980289.92	3741984.77	SCH	17.62
891	980289.92	3742004.77	SCH	17.48
892	980289.92	3742024.77	SCH	17.36
893	980289.92	3742044.77	SCH	17.56
894	980289.92	3742064.77	SCH	17.78
895	980289.92	3742084.77	SCH	18.02
896	980289.92	3742104.77	SCH	18.15
897	980289.92	3742124.77	SCH	18.24
898	980309.92	3741684.77	SCH	15.84
899	980309.92	3741704.77	SCH	15.78
900	980309.92	3741724.77	SCH	15.91
901	980309.92	3741744.77	SCH	16.07
902	980309.92	3741764.77	SCH	16.25
903	980309.92	3741784.77	SCH	16.44
904	980309.92	3741804.77	SCH	16.66

905	980309.92	3741824.77	SCH	16.89
906	980309.92	3741844.77	SCH	17.13
907	980309.92	3741864.77	SCH	17.37
908	980309.92	3741884.77	SCH	17.55
909	980309.92	3741904.77	SCH	17.68
910	980309.92	3741924.77	SCH	17.67
911	980309.92	3741944.77	SCH	17.76
912	980309.92	3741964.77	SCH	17.93
913	980309.92	3741984.77	SCH	17.75
914	980309.92	3742004.77	SCH	17.56
915	980309.92	3742024.77	SCH	17.38
916	980309.92	3742044.77	SCH	17.53
917	980309.92	3742064.77	SCH	17.73
918	980309.92	3742084.77	SCH	17.96
919	980309.92	3742104.77	SCH	18.13
920	980309.92	3742124.77	SCH	18.25
921	980309.92	3742144.77	SCH	18.25
922	980329.92	3741684.77	SCH	16.06
923	980329.92	3741704.77	SCH	16.00
924	980329.92	3741724.77	SCH	16.05
925	980329.92	3741744.77	SCH	16.15
926	980329.92	3741764.77	SCH	16.32
927	980329.92	3741784.77	SCH	16.51
928	980329.92	3741804.77	SCH	16.74
929	980329.92	3741824.77	SCH	17.00
930	980329.92	3741844.77	SCH	17.28
931	980329.92	3741864.77	SCH	17.57
932	980329.92	3741884.77	SCH	17.75
933	980329.92	3741904.77	SCH	17.84
934	980329.92	3741924.77	SCH	17.88
935	980329.92	3741944.77	SCH	18.03
936	980329.92	3741964.77	SCH	18.30
937	980329.92	3741984.77	SCH	17.94
938	980329.92	3742004.77	SCH	17.62
939	980329.92	3742024.77	SCH	17.39
940	980329.92	3742044.77	SCH	17.47
941	980329.92	3742064.77	SCH	17.64
942	980329.92	3742084.77	SCH	17.88

943	980329.92	3742104.77	SCH	18.07
944	980329.92	3742124.77	SCH	18.21
945	980329.92	3742144.77	SCH	18.22
946	980329.92	3742164.77	SCH	18.20
947	980349.92	3741744.77	SCH	16.24
948	980349.92	3741764.77	SCH	16.37
949	980349.92	3741784.77	SCH	16.56
950	980349.92	3741804.77	SCH	16.80
951	980349.92	3741824.77	SCH	17.05
952	980349.92	3741844.77	SCH	17.32
953	980349.92	3741864.77	SCH	17.60
954	980349.92	3741884.77	SCH	17.79
955	980349.92	3741904.77	SCH	17.90
956	980349.92	3741924.77	SCH	17.84
957	980349.92	3741944.77	SCH	17.81
958	980349.92	3741964.77	SCH	17.84
959	980349.92	3741984.77	SCH	17.73
960	980349.92	3742004.77	SCH	17.58
961	980349.92	3742024.77	SCH	17.33
962	980349.92	3742044.77	SCH	17.37
963	980349.92	3742064.77	SCH	17.53
964	980349.92	3742084.77	SCH	17.81
965	980349.92	3742104.77	SCH	17.98
966	980349.92	3742124.77	SCH	18.10
967	980349.92	3742144.77	SCH	18.16
968	980349.92	3742164.77	SCH	18.18
969	980369.92	3741824.77	SCH	17.01
970	980369.92	3741844.77	SCH	17.24
971	980369.92	3741864.77	SCH	17.49
972	980369.92	3741884.77	SCH	17.68
973	980369.92	3741904.77	SCH	17.82
974	980369.92	3741924.77	SCH	17.71
975	980369.92	3741944.77	SCH	17.60
976	980369.92	3741964.77	SCH	17.52
977	980369.92	3741984.77	SCH	17.46
978	980369.92	3742004.77	SCH	17.39
979	980369.92	3742024.77	SCH	17.26
980	980369.92	3742044.77	SCH	17.32

981	980369.92	3742064.77	SCH	17.47
982	980369.92	3742084.77	SCH	17.75
983	980369.92	3742104.77	SCH	17.92
984	980369.92	3742124.77	SCH	18.02
985	980369.92	3742144.77	SCH	18.07
986	980389.92	3741884.77	SCH	17.46
987	980389.92	3741904.77	SCH	17.62
988	980389.92	3741924.77	SCH	17.52
989	980389.92	3741944.77	SCH	17.34
990	980389.92	3741964.77	SCH	17.07
991	980389.92	3741984.77	SCH	17.06
992	980389.92	3742004.77	SCH	17.13
993	980389.92	3742024.77	SCH	17.14
994	980389.92	3742044.77	SCH	17.26
995	980389.92	3742064.77	SCH	17.43
996	980389.92	3742084.77	SCH	17.71
997	980389.92	3742104.77	SCH	17.88
998	980389.92	3742124.77	SCH	17.96
999	980409.92	3741944.77	SCH	17.05
1,000	980409.92	3741964.77	SCH	16.48
1,001	980409.92	3741984.77	SCH	16.56
1,002	980409.92	3742004.77	SCH	16.85
1,003	980409.92	3742024.77	SCH	16.99
1,004	980409.92	3742044.77	SCH	17.19
1,005	980409.92	3742064.77	SCH	17.43
1,006	980409.92	3742084.77	SCH	17.69
1,007	980409.92	3742104.77	SCH	17.82
1,008	980409.92	3742124.77	SCH	17.86
1,009	980429.92	3741964.77	SCH	16.39
1,010	980429.92	3741984.77	SCH	16.38
1,011	980429.92	3742004.77	SCH	16.60
1,012	980429.92	3742024.77	SCH	16.84
1,013	980429.92	3742044.77	SCH	17.14
1,014	980429.92	3742064.77	SCH	17.46
1,015	980429.92	3742084.77	SCH	17.66
1,016	980429.92	3742104.77	SCH	17.75
1,017	980449.92	3742004.77	SCH	16.68
1,018	980449.92	3742024.77	SCH	16.90

1,019	980449.92	3742044.77	SCH	17.15
1,020	980449.92	3742064.77	SCH	17.44
1,021	980449.92	3742084.77	SCH	17.53
1,022	980469.92	3742024.77	SCH	16.97
1,023	980469.92	3742044.77	SCH	17.17
1,024	980469.92	3742064.77	SCH	17.36
1,025	980469.92	3742084.77	SCH	17.43
1,026	980489.92	3742044.77	SCH	17.16
1,027	980489.92	3742064.77	SCH	17.28
1,028	980404.60	3742206.17	WOR	18.79
1,029	980395.70	3742240.27	WOR	18.75
1,030	980504.67	3742161.69	WOR	18.52
1,031	980443.89	3742297.35	WOR	19.09
1,032	980480.95	3742379.63	WOR	18.99
1,033	980519.50	3742227.67	WOR	18.81
1,034	980546.18	3742255.09	WOR	19.11
1,035	980555.82	3742291.42	WOR	19.22
1,036	980578.06	3742308.47	WOR	19.33
1,037	980601.04	3742345.53	WOR	19.42
1,038	980500.96	3742427.81	WOR	19.03
1,039	980518.78	3742452.39	WOR	19.29
1,040	980625.18	3742376.52	WOR	19.47
1,041	980640.01	3742414.89	WOR	19.45
1,042	980561.52	3742496.87	WOR	19.93
1,043	980665.30	3742472.45	WOR	19.69
1,044	980513.48	3742577.06	WOR	19.19
1,045	979899.40	3742334.47	WOR	19.24
1,046	979936.77	3742099.68	WOR	17.99
1,047	979761.24	3742285.82	WOR	19.04
1,048	979733.51	3742181.86	WOR	18.30
1,049	979924.14	3742077.70	WOR	17.92
1,050	979822.04	3741883.42	WOR	17.43
1,051	979674.08	3742101.64	WOR	18.09
1,052	979851.61	3742394.38	WOR	19.48
1,053	979873.78	3742356.02	WOR	19.42
1,054	979586.82	3742234.43	WOR	19.12
1,055	979600.20	3742183.36	WOR	18.86
1,056	979550.35	3742193.09	WOR	18.98

1,057	979618.44	3742121.35	WOR	18.69	
1,058	979858.81	3741944.73	WOR	17.56	
1,059	979760.89	3741849.21	WOR	17.63	

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	RES	
2	PAR	
3	SCH	
4	WOR	

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Met Data\KSNA_V11_trimmed.sfc
Format Type: Default AERMET format

Profile Met Data

Filename: Met Data\KSNA_V11_trimmed.pfl
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 12.95 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2019			
Upper Air		2019			

Data Period

Data Period to Process

Start Date: 1/1/2019 Start Hour: 1 End Date: 12/31/2023 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.06573	ug/m^3	RES_001	979660.30	3742498.81	19.96	0.00	19.96	
PERIOD		0.06457	ug/m^3	RES_002	979660.30	3742518.81	20.04	0.00	20.04	
PERIOD		0.06409	ug/m^3	RES_003	979660.30	3742538.81	20.10	0.00	20.10	
PERIOD		0.06401	ug/m^3	RES_004	979660.30	3742558.81	20.16	0.00	20.16	
PERIOD		0.06405	ug/m^3	RES_005	979660.30	3742578.81	20.25	0.00	20.25	
PERIOD		0.06398	ug/m^3	RES_006	979660.30	3742598.81	20.26	0.00	20.26	
PERIOD		0.06361	ug/m^3	RES_007	979660.30	3742618.81	20.30	0.00	20.30	
PERIOD		0.06286	ug/m^3	RES_008	979660.30	3742638.81	20.42	0.00	20.42	
PERIOD		0.06177	ug/m^3	RES_009	979660.30	3742658.81	20.49	0.00	20.49	
PERIOD		0.06036	ug/m^3	RES_010	979660.30	3742678.81	20.53	0.00	20.53	
PERIOD		0.05870	ug/m^3	RES_011	979660.30	3742698.81	20.51	0.00	20.51	
PERIOD		0.05681	ug/m^3	RES_012	979660.30	3742718.81	20.73	0.00	20.73	
PERIOD		0.05475	ug/m^3	RES_013	979660.30	3742738.81	21.08	0.00	21.08	
PERIOD		0.05275	ug/m^3	RES_014	979660.30	3742758.81	21.12	0.00	21.12	
PERIOD		0.05077	ug/m^3	RES_015	979660.30	3742778.81	21.10	0.00	21.10	
PERIOD		0.07134	ug/m^3	RES_016	979680.30	3742498.81	20.06	0.00	20.06	
PERIOD		0.07020	ug/m^3	RES_017	979680.30	3742518.81	20.14	0.00	20.14	
PERIOD		0.06981	ug/m^3	RES_018	979680.30	3742538.81	20.21	0.00	20.21	
PERIOD		0.06979	ug/m^3	RES_019	979680.30	3742558.81	20.28	0.00	20.28	
PERIOD		0.06977	ug/m^3	RES_020	979680.30	3742578.81	20.34	0.00	20.34	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.06949	ug/m^3	RES_021	979680.30	3742598.81	20.33	0.00	20.33	
PERIOD		0.06878	ug/m^3	RES_022	979680.30	3742618.81	20.35	0.00	20.35	
PERIOD		0.06760	ug/m^3	RES_023	979680.30	3742638.81	20.51	0.00	20.51	
PERIOD		0.06601	ug/m^3	RES_024	979680.30	3742658.81	20.64	0.00	20.64	
PERIOD		0.06410	ug/m^3	RES_025	979680.30	3742678.81	20.73	0.00	20.73	
PERIOD		0.06200	ug/m^3	RES_026	979680.30	3742698.81	20.68	0.00	20.68	
PERIOD		0.05967	ug/m^3	RES_027	979680.30	3742718.81	20.93	0.00	20.93	
PERIOD		0.05712	ug/m^3	RES_028	979680.30	3742738.81	21.36	0.00	21.36	
PERIOD		0.05491	ug/m^3	RES_029	979680.30	3742758.81	21.30	0.00	21.30	
PERIOD		0.05275	ug/m^3	RES_030	979680.30	3742778.81	21.17	0.00	21.17	
PERIOD		0.05067	ug/m^3	RES_031	979680.30	3742798.81	20.96	0.00	20.96	
PERIOD		0.07800	ug/m^3	RES_032	979700.30	3742498.81	20.19	0.00	20.19	
PERIOD		0.07691	ug/m^3	RES_033	979700.30	3742518.81	20.27	0.00	20.27	
PERIOD		0.07664	ug/m^3	RES_034	979700.30	3742538.81	20.36	0.00	20.36	
PERIOD		0.07662	ug/m^3	RES_035	979700.30	3742558.81	20.44	0.00	20.44	
PERIOD		0.07642	ug/m^3	RES_036	979700.30	3742578.81	20.47	0.00	20.47	
PERIOD		0.07574	ug/m^3	RES_037	979700.30	3742598.81	20.47	0.00	20.47	
PERIOD		0.07454	ug/m^3	RES_038	979700.30	3742618.81	20.50	0.00	20.50	
PERIOD		0.07277	ug/m^3	RES_039	979700.30	3742638.81	20.68	0.00	20.68	
PERIOD		0.07057	ug/m^3	RES_040	979700.30	3742658.81	20.81	0.00	20.81	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.06808	ug/m^3	RES_041	979700.30	3742678.81	20.90	0.00	20.90	
PERIOD		0.06547	ug/m^3	RES_042	979700.30	3742698.81	20.85	0.00	20.85	
PERIOD		0.06269	ug/m^3	RES_043	979700.30	3742718.81	21.07	0.00	21.07	
PERIOD		0.05965	ug/m^3	RES_044	979700.30	3742738.81	21.49	0.00	21.49	
PERIOD		0.05717	ug/m^3	RES_045	979700.30	3742758.81	21.39	0.00	21.39	
PERIOD		0.05481	ug/m^3	RES_046	979700.30	3742778.81	21.24	0.00	21.24	
PERIOD		0.05251	ug/m^3	RES_047	979700.30	3742798.81	21.05	0.00	21.05	
PERIOD		0.08608	ug/m^3	RES_048	979720.30	3742498.81	20.32	0.00	20.32	
PERIOD		0.08509	ug/m^3	RES_049	979720.30	3742518.81	20.42	0.00	20.42	
PERIOD		0.08492	ug/m^3	RES_050	979720.30	3742538.81	20.51	0.00	20.51	
PERIOD		0.08477	ug/m^3	RES_051	979720.30	3742558.81	20.58	0.00	20.58	
PERIOD		0.08416	ug/m^3	RES_052	979720.30	3742578.81	20.59	0.00	20.59	
PERIOD		0.08289	ug/m^3	RES_053	979720.30	3742598.81	20.61	0.00	20.61	
PERIOD		0.08100	ug/m^3	RES_054	979720.30	3742618.81	20.65	0.00	20.65	
PERIOD		0.07843	ug/m^3	RES_055	979720.30	3742638.81	20.85	0.00	20.85	
PERIOD		0.07547	ug/m^3	RES_056	979720.30	3742658.81	20.98	0.00	20.98	
PERIOD		0.07230	ug/m^3	RES_057	979720.30	3742678.81	21.05	0.00	21.05	
PERIOD		0.06911	ug/m^3	RES_058	979720.30	3742698.81	21.03	0.00	21.03	
PERIOD		0.06582	ug/m^3	RES_059	979720.30	3742718.81	21.21	0.00	21.21	
PERIOD		0.06237	ug/m^3	RES_060	979720.30	3742738.81	21.59	0.00	21.59	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.05953	ug/m^3	RES_061	979720.30	3742758.81	21.48	0.00	21.48	
PERIOD		0.05689	ug/m^3	RES_062	979720.30	3742778.81	21.36	0.00	21.36	
PERIOD		0.09876	ug/m^3	RES_063	979740.30	3742478.81	20.28	0.00	20.28	
PERIOD		0.09612	ug/m^3	RES_064	979740.30	3742498.81	20.42	0.00	20.42	
PERIOD		0.09530	ug/m^3	RES_065	979740.30	3742518.81	20.52	0.00	20.52	
PERIOD		0.09510	ug/m^3	RES_066	979740.30	3742538.81	20.61	0.00	20.61	
PERIOD		0.09454	ug/m^3	RES_067	979740.30	3742558.81	20.68	0.00	20.68	
PERIOD		0.09322	ug/m^3	RES_068	979740.30	3742578.81	20.70	0.00	20.70	
PERIOD		0.09113	ug/m^3	RES_069	979740.30	3742598.81	20.74	0.00	20.74	
PERIOD		0.08822	ug/m^3	RES_070	979740.30	3742618.81	20.80	0.00	20.80	
PERIOD		0.08462	ug/m^3	RES_071	979740.30	3742638.81	21.00	0.00	21.00	
PERIOD		0.08073	ug/m^3	RES_072	979740.30	3742658.81	21.11	0.00	21.11	
PERIOD		0.07681	ug/m^3	RES_073	979740.30	3742678.81	21.15	0.00	21.15	
PERIOD		0.07293	ug/m^3	RES_074	979740.30	3742698.81	21.19	0.00	21.19	
PERIOD		0.06904	ug/m^3	RES_075	979740.30	3742718.81	21.35	0.00	21.35	
PERIOD		0.06524	ug/m^3	RES_076	979740.30	3742738.81	21.67	0.00	21.67	
PERIOD		0.06211	ug/m^3	RES_077	979740.30	3742758.81	21.55	0.00	21.55	
PERIOD		0.05923	ug/m^3	RES_078	979740.30	3742778.81	21.39	0.00	21.39	
PERIOD		0.11175	ug/m^3	RES_079	979760.30	3742478.81	20.37	0.00	20.37	
PERIOD		0.10903	ug/m^3	RES_080	979760.30	3742498.81	20.44	0.00	20.44	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.10833	ug/m^3	RES_081	979760.30	3742518.81	20.54	0.00	20.54	
PERIOD		0.10778	ug/m^3	RES_082	979760.30	3742538.81	20.64	0.00	20.64	
PERIOD		0.10635	ug/m^3	RES_083	979760.30	3742558.81	20.74	0.00	20.74	
PERIOD		0.10403	ug/m^3	RES_084	979760.30	3742578.81	20.80	0.00	20.80	
PERIOD		0.10062	ug/m^3	RES_085	979760.30	3742598.81	20.87	0.00	20.87	
PERIOD		0.09629	ug/m^3	RES_086	979760.30	3742618.81	20.96	0.00	20.96	
PERIOD		0.09134	ug/m^3	RES_087	979760.30	3742638.81	21.15	0.00	21.15	
PERIOD		0.08635	ug/m^3	RES_088	979760.30	3742658.81	21.25	0.00	21.25	
PERIOD		0.08161	ug/m^3	RES_089	979760.30	3742678.81	21.25	0.00	21.25	
PERIOD		0.07694	ug/m^3	RES_090	979760.30	3742698.81	21.33	0.00	21.33	
PERIOD		0.07249	ug/m^3	RES_091	979760.30	3742718.81	21.49	0.00	21.49	
PERIOD		0.06836	ug/m^3	RES_092	979760.30	3742738.81	21.72	0.00	21.72	
PERIOD		0.06489	ug/m^3	RES_093	979760.30	3742758.81	21.61	0.00	21.61	
PERIOD		0.06171	ug/m^3	RES_094	979760.30	3742778.81	21.46	0.00	21.46	
PERIOD		0.12891	ug/m^3	RES_095	979780.30	3742478.81	20.44	0.00	20.44	
PERIOD		0.12616	ug/m^3	RES_096	979780.30	3742498.81	20.50	0.00	20.50	
PERIOD		0.12526	ug/m^3	RES_097	979780.30	3742518.81	20.56	0.00	20.56	
PERIOD		0.12368	ug/m^3	RES_098	979780.30	3742538.81	20.66	0.00	20.66	
PERIOD		0.12108	ug/m^3	RES_099	979780.30	3742558.81	20.77	0.00	20.77	
PERIOD		0.11709	ug/m^3	RES_100	979780.30	3742578.81	20.84	0.00	20.84	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.11165	ug/m^3	RES_101	979780.30	3742598.81	20.96	0.00	20.96	
PERIOD		0.10529	ug/m^3	RES_102	979780.30	3742618.81	21.13	0.00	21.13	
PERIOD		0.09851	ug/m^3	RES_103	979780.30	3742638.81	21.32	0.00	21.32	
PERIOD		0.09234	ug/m^3	RES_104	979780.30	3742658.81	21.40	0.00	21.40	
PERIOD		0.08678	ug/m^3	RES_105	979780.30	3742678.81	21.35	0.00	21.35	
PERIOD		0.08139	ug/m^3	RES_106	979780.30	3742698.81	21.44	0.00	21.44	
PERIOD		0.07639	ug/m^3	RES_107	979780.30	3742718.81	21.57	0.00	21.57	
PERIOD		0.07186	ug/m^3	RES_108	979780.30	3742738.81	21.71	0.00	21.71	
PERIOD		0.06800	ug/m^3	RES_109	979780.30	3742758.81	21.60	0.00	21.60	
PERIOD		0.06445	ug/m^3	RES_110	979780.30	3742778.81	21.48	0.00	21.48	
PERIOD		0.15270	ug/m^3	RES_111	979800.30	3742478.81	20.53	0.00	20.53	
PERIOD		0.14975	ug/m^3	RES_112	979800.30	3742498.81	20.59	0.00	20.59	
PERIOD		0.14769	ug/m^3	RES_113	979800.30	3742518.81	20.62	0.00	20.62	
PERIOD		0.14456	ug/m^3	RES_114	979800.30	3742538.81	20.73	0.00	20.73	
PERIOD		0.13989	ug/m^3	RES_115	979800.30	3742558.81	20.91	0.00	20.91	
PERIOD		0.13295	ug/m^3	RES_116	979800.30	3742578.81	21.00	0.00	21.00	
PERIOD		0.12451	ug/m^3	RES_117	979800.30	3742598.81	21.10	0.00	21.10	
PERIOD		0.11557	ug/m^3	RES_118	979800.30	3742618.81	21.22	0.00	21.22	
PERIOD		0.10675	ug/m^3	RES_119	979800.30	3742638.81	21.42	0.00	21.42	
PERIOD		0.09913	ug/m^3	RES_120	979800.30	3742658.81	21.51	0.00	21.51	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.09272	ug/m^3	RES_121	979800.30	3742678.81	21.41	0.00	21.41	
PERIOD		0.08650	ug/m^3	RES_122	979800.30	3742698.81	21.47	0.00	21.47	
PERIOD		0.08088	ug/m^3	RES_123	979800.30	3742718.81	21.56	0.00	21.56	
PERIOD		0.07589	ug/m^3	RES_124	979800.30	3742738.81	21.62	0.00	21.62	
PERIOD		0.07158	ug/m^3	RES_125	979800.30	3742758.81	21.50	0.00	21.50	
PERIOD		0.06769	ug/m^3	RES_126	979800.30	3742778.81	21.39	0.00	21.39	
PERIOD		0.18783	ug/m^3	RES_127	979820.30	3742478.81	20.72	0.00	20.72	
PERIOD		0.18343	ug/m^3	RES_128	979820.30	3742498.81	20.79	0.00	20.79	
PERIOD		0.17903	ug/m^3	RES_129	979820.30	3742518.81	20.81	0.00	20.81	
PERIOD		0.17400	ug/m^3	RES_130	979820.30	3742538.81	20.90	0.00	20.90	
PERIOD		0.16483	ug/m^3	RES_131	979820.30	3742558.81	21.04	0.00	21.04	
PERIOD		0.15295	ug/m^3	RES_132	979820.30	3742578.81	21.08	0.00	21.08	
PERIOD		0.14032	ug/m^3	RES_133	979820.30	3742598.81	21.14	0.00	21.14	
PERIOD		0.12809	ug/m^3	RES_134	979820.30	3742618.81	21.24	0.00	21.24	
PERIOD		0.11656	ug/m^3	RES_135	979820.30	3742638.81	21.47	0.00	21.47	
PERIOD		0.10722	ug/m^3	RES_136	979820.30	3742658.81	21.57	0.00	21.57	
PERIOD		0.09990	ug/m^3	RES_137	979820.30	3742678.81	21.38	0.00	21.38	
PERIOD		0.09279	ug/m^3	RES_138	979820.30	3742698.81	21.37	0.00	21.37	
PERIOD		0.08637	ug/m^3	RES_139	979820.30	3742718.81	21.41	0.00	21.41	
PERIOD		0.08070	ug/m^3	RES_140	979820.30	3742738.81	21.44	0.00	21.44	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.07597	ug/m^3	RES_141	979820.30	3742758.81	21.28	0.00	21.28	
PERIOD		0.07170	ug/m^3	RES_142	979820.30	3742778.81	21.08	0.00	21.08	
PERIOD		0.24338	ug/m^3	RES_143	979840.30	3742478.81	20.99	0.00	20.99	
PERIOD		0.23427	ug/m^3	RES_144	979840.30	3742498.81	21.12	0.00	21.12	
PERIOD		0.22980	ug/m^3	RES_145	979840.30	3742518.81	21.15	0.00	21.15	
PERIOD		0.21657	ug/m^3	RES_146	979840.30	3742538.81	21.18	0.00	21.18	
PERIOD		0.19759	ug/m^3	RES_147	979840.30	3742558.81	21.19	0.00	21.19	
PERIOD		0.17917	ug/m^3	RES_148	979840.30	3742578.81	21.11	0.00	21.11	
PERIOD		0.16127	ug/m^3	RES_149	979840.30	3742598.81	21.08	0.00	21.08	
PERIOD		0.14490	ug/m^3	RES_150	979840.30	3742618.81	21.14	0.00	21.14	
PERIOD		0.13025	ug/m^3	RES_151	979840.30	3742638.81	21.27	0.00	21.27	
PERIOD		0.11847	ug/m^3	RES_152	979840.30	3742658.81	21.32	0.00	21.32	
PERIOD		0.10948	ug/m^3	RES_153	979840.30	3742678.81	21.15	0.00	21.15	
PERIOD		0.10085	ug/m^3	RES_154	979840.30	3742698.81	21.15	0.00	21.15	
PERIOD		0.09320	ug/m^3	RES_155	979840.30	3742718.81	21.20	0.00	21.20	
PERIOD		0.08669	ug/m^3	RES_156	979840.30	3742738.81	21.19	0.00	21.19	
PERIOD		0.08113	ug/m^3	RES_157	979840.30	3742758.81	21.07	0.00	21.07	
PERIOD		0.07613	ug/m^3	RES_158	979840.30	3742778.81	20.91	0.00	20.91	
PERIOD		0.33920	ug/m^3	RES_159	979860.30	3742478.81	21.09	0.00	21.09	
PERIOD		0.33602	ug/m^3	RES_160	979860.30	3742498.81	21.28	0.00	21.28	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.30806	ug/m^3	RES_161	979860.30	3742518.81	21.44	0.00	21.44	
PERIOD		0.27001	ug/m^3	RES_162	979860.30	3742538.81	21.51	0.00	21.51	
PERIOD		0.23823	ug/m^3	RES_163	979860.30	3742558.81	21.42	0.00	21.42	
PERIOD		0.21339	ug/m^3	RES_164	979860.30	3742578.81	21.18	0.00	21.18	
PERIOD		0.18894	ug/m^3	RES_165	979860.30	3742598.81	20.98	0.00	20.98	
PERIOD		0.16681	ug/m^3	RES_166	979860.30	3742618.81	20.95	0.00	20.95	
PERIOD		0.14858	ug/m^3	RES_167	979860.30	3742638.81	20.95	0.00	20.95	
PERIOD		0.13356	ug/m^3	RES_168	979860.30	3742658.81	20.95	0.00	20.95	
PERIOD		0.12114	ug/m^3	RES_169	979860.30	3742678.81	20.92	0.00	20.92	
PERIOD		0.11045	ug/m^3	RES_170	979860.30	3742698.81	20.98	0.00	20.98	
PERIOD		0.10132	ug/m^3	RES_171	979860.30	3742718.81	21.06	0.00	21.06	
PERIOD		0.09374	ug/m^3	RES_172	979860.30	3742738.81	21.00	0.00	21.00	
PERIOD		0.08715	ug/m^3	RES_173	979860.30	3742758.81	20.91	0.00	20.91	
PERIOD		0.08136	ug/m^3	RES_174	979860.30	3742778.81	20.80	0.00	20.80	
PERIOD		0.61573	ug/m^3	RES_175	979880.30	3742458.81	20.87	0.00	20.87	
PERIOD		0.62377	ug/m^3	RES_176	979880.30	3742478.81	21.14	0.00	21.14	
PERIOD		0.55742	ug/m^3	RES_177	979880.30	3742498.81	21.35	0.00	21.35	
PERIOD		0.44466	ug/m^3	RES_178	979880.30	3742518.81	21.52	0.00	21.52	
PERIOD		0.35705	ug/m^3	RES_179	979880.30	3742538.81	21.61	0.00	21.61	
PERIOD		0.29692	ug/m^3	RES_180	979880.30	3742558.81	21.56	0.00	21.56	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.25766	ug/m^3	RES_181	979880.30	3742578.81	21.27	0.00	21.27	
PERIOD		0.22384	ug/m^3	RES_182	979880.30	3742598.81	21.04	0.00	21.04	
PERIOD		0.19210	ug/m^3	RES_183	979880.30	3742618.81	21.14	0.00	21.14	
PERIOD		0.16804	ug/m^3	RES_184	979880.30	3742638.81	21.17	0.00	21.17	
PERIOD		0.14929	ug/m^3	RES_185	979880.30	3742658.81	21.16	0.00	21.16	
PERIOD		0.13457	ug/m^3	RES_186	979880.30	3742678.81	21.04	0.00	21.04	
PERIOD		0.12171	ug/m^3	RES_187	979880.30	3742698.81	21.05	0.00	21.05	
PERIOD		0.11079	ug/m^3	RES_188	979880.30	3742718.81	21.11	0.00	21.11	
PERIOD		0.10205	ug/m^3	RES_189	979880.30	3742738.81	20.96	0.00	20.96	
PERIOD		0.09441	ug/m^3	RES_190	979880.30	3742758.81	20.81	0.00	20.81	
PERIOD		0.61131	ug/m^3	RES_191	979900.30	3742458.81	20.86	0.00	20.86	
PERIOD		1.34889	ug/m^3	RES_192	979900.30	3742478.81	21.10	0.00	21.10	
PERIOD		0.93084	ug/m^3	RES_193	979900.30	3742498.81	21.29	0.00	21.29	
PERIOD		0.65631	ug/m^3	RES_194	979900.30	3742518.81	21.47	0.00	21.47	
PERIOD		0.48768	ug/m^3	RES_195	979900.30	3742538.81	21.58	0.00	21.58	
PERIOD		0.38246	ug/m^3	RES_196	979900.30	3742558.81	21.58	0.00	21.58	
PERIOD		0.31704	ug/m^3	RES_197	979900.30	3742578.81	21.34	0.00	21.34	
PERIOD		0.26802	ug/m^3	RES_198	979900.30	3742598.81	21.13	0.00	21.13	
PERIOD		0.22435	ug/m^3	RES_199	979900.30	3742618.81	21.26	0.00	21.26	
PERIOD		0.19272	ug/m^3	RES_200	979900.30	3742638.81	21.32	0.00	21.32	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.16888	ug/m^3	RES_201	979900.30	3742658.81	21.32	0.00	21.32	
PERIOD		0.15082	ug/m^3	RES_202	979900.30	3742678.81	21.20	0.00	21.20	
PERIOD		0.13498	ug/m^3	RES_203	979900.30	3742698.81	21.23	0.00	21.23	
PERIOD		0.12153	ug/m^3	RES_204	979900.30	3742718.81	21.34	0.00	21.34	
PERIOD		0.11171	ug/m^3	RES_205	979900.30	3742738.81	21.12	0.00	21.12	
PERIOD		0.10310	ug/m^3	RES_206	979900.30	3742758.81	20.80	0.00	20.80	
PERIOD		1.84421	ug/m^3	RES_207	979920.30	3742458.81	20.79	0.00	20.79	
PERIOD		2.04264	ug/m^3	RES_208	979920.30	3742478.81	20.98	0.00	20.98	
PERIOD		1.34433	ug/m^3	RES_209	979920.30	3742498.81	21.17	0.00	21.17	
PERIOD		0.91091	ug/m^3	RES_210	979920.30	3742518.81	21.36	0.00	21.36	
PERIOD		0.64937	ug/m^3	RES_211	979920.30	3742538.81	21.52	0.00	21.52	
PERIOD		0.49158	ug/m^3	RES_212	979920.30	3742558.81	21.53	0.00	21.53	
PERIOD		0.39287	ug/m^3	RES_213	979920.30	3742578.81	21.34	0.00	21.34	
PERIOD		0.32309	ug/m^3	RES_214	979920.30	3742598.81	21.16	0.00	21.16	
PERIOD		0.26471	ug/m^3	RES_215	979920.30	3742618.81	21.36	0.00	21.36	
PERIOD		0.22397	ug/m^3	RES_216	979920.30	3742638.81	21.43	0.00	21.43	
PERIOD		0.19388	ug/m^3	RES_217	979920.30	3742658.81	21.41	0.00	21.41	
PERIOD		0.17070	ug/m^3	RES_218	979920.30	3742678.81	21.33	0.00	21.33	
PERIOD		0.15125	ug/m^3	RES_219	979920.30	3742698.81	21.37	0.00	21.37	
PERIOD		0.13495	ug/m^3	RES_220	979920.30	3742718.81	21.50	0.00	21.50	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.12342	ug/m^3	RES_221	979920.30	3742738.81	21.21	0.00	21.21	
PERIOD		0.11322	ug/m^3	RES_222	979920.30	3742758.81	20.94	0.00	20.94	
PERIOD		3.50889	ug/m^3	RES_223	979940.30	3742458.81	20.69	0.00	20.69	
PERIOD		2.38311	ug/m^3	RES_224	979940.30	3742478.81	20.87	0.00	20.87	
PERIOD		1.61995	ug/m^3	RES_225	979940.30	3742498.81	21.09	0.00	21.09	
PERIOD		1.11615	ug/m^3	RES_226	979940.30	3742518.81	21.34	0.00	21.34	
PERIOD		0.80026	ug/m^3	RES_227	979940.30	3742538.81	21.51	0.00	21.51	
PERIOD		0.60577	ug/m^3	RES_228	979940.30	3742558.81	21.42	0.00	21.42	
PERIOD		0.47670	ug/m^3	RES_229	979940.30	3742578.81	21.26	0.00	21.26	
PERIOD		0.38558	ug/m^3	RES_230	979940.30	3742598.81	21.12	0.00	21.12	
PERIOD		0.31219	ug/m^3	RES_231	979940.30	3742618.81	21.38	0.00	21.38	
PERIOD		0.26106	ug/m^3	RES_232	979940.30	3742638.81	21.47	0.00	21.47	
PERIOD		0.22386	ug/m^3	RES_233	979940.30	3742658.81	21.42	0.00	21.42	
PERIOD		0.19466	ug/m^3	RES_234	979940.30	3742678.81	21.39	0.00	21.39	
PERIOD		0.17094	ug/m^3	RES_235	979940.30	3742698.81	21.43	0.00	21.43	
PERIOD		0.15144	ug/m^3	RES_236	979940.30	3742718.81	21.54	0.00	21.54	
PERIOD		0.13755	ug/m^3	RES_237	979940.30	3742738.81	21.21	0.00	21.21	
PERIOD		0.12525	ug/m^3	RES_238	979940.30	3742758.81	20.96	0.00	20.96	
PERIOD		3.56696	ug/m^3	RES_239	979960.30	3742458.81	20.56	0.00	20.56	
PERIOD		2.49461	ug/m^3	RES_240	979960.30	3742478.81	20.73	0.00	20.73	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.74841	ug/m^3	RES_241	979960.30	3742498.81	20.96	0.00	20.96	
PERIOD		1.24682	ug/m^3	RES_242	979960.30	3742518.81	21.20	0.00	21.20	
PERIOD		0.91684	ug/m^3	RES_243	979960.30	3742538.81	21.38	0.00	21.38	
PERIOD		0.70353	ug/m^3	RES_244	979960.30	3742558.81	21.25	0.00	21.25	
PERIOD		0.55503	ug/m^3	RES_245	979960.30	3742578.81	21.11	0.00	21.11	
PERIOD		0.44785	ug/m^3	RES_246	979960.30	3742598.81	21.00	0.00	21.00	
PERIOD		0.36241	ug/m^3	RES_247	979960.30	3742618.81	21.29	0.00	21.29	
PERIOD		0.30163	ug/m^3	RES_248	979960.30	3742638.81	21.40	0.00	21.40	
PERIOD		0.25715	ug/m^3	RES_249	979960.30	3742658.81	21.34	0.00	21.34	
PERIOD		0.22180	ug/m^3	RES_250	979960.30	3742678.81	21.35	0.00	21.35	
PERIOD		0.19362	ug/m^3	RES_251	979960.30	3742698.81	21.38	0.00	21.38	
PERIOD		0.17069	ug/m^3	RES_252	979960.30	3742718.81	21.45	0.00	21.45	
PERIOD		0.15389	ug/m^3	RES_253	979960.30	3742738.81	21.12	0.00	21.12	
PERIOD		0.13924	ug/m^3	RES_254	979960.30	3742758.81	20.84	0.00	20.84	
PERIOD		3.49655	ug/m^3	RES_255	979980.30	3742458.81	20.41	0.00	20.41	
PERIOD		2.49197	ug/m^3	RES_256	979980.30	3742478.81	20.57	0.00	20.57	
PERIOD		1.78677	ug/m^3	RES_257	979980.30	3742498.81	20.78	0.00	20.78	
PERIOD		1.31187	ug/m^3	RES_258	979980.30	3742518.81	20.98	0.00	20.98	
PERIOD		0.99055	ug/m^3	RES_259	979980.30	3742538.81	21.14	0.00	21.14	
PERIOD		0.77360	ug/m^3	RES_260	979980.30	3742558.81	21.05	0.00	21.05	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.61795	ug/m^3	RES_261	979980.30	3742578.81	20.93	0.00	20.93	
PERIOD		0.50304	ug/m^3	RES_262	979980.30	3742598.81	20.80	0.00	20.80	
PERIOD		0.41036	ug/m^3	RES_263	979980.30	3742618.81	21.07	0.00	21.07	
PERIOD		0.34257	ug/m^3	RES_264	979980.30	3742638.81	21.17	0.00	21.17	
PERIOD		0.29181	ug/m^3	RES_265	979980.30	3742658.81	21.11	0.00	21.11	
PERIOD		0.25093	ug/m^3	RES_266	979980.30	3742678.81	21.15	0.00	21.15	
PERIOD		0.21817	ug/m^3	RES_267	979980.30	3742698.81	21.21	0.00	21.21	
PERIOD		0.19167	ug/m^3	RES_268	979980.30	3742718.81	21.27	0.00	21.27	
PERIOD		0.17189	ug/m^3	RES_269	979980.30	3742738.81	20.91	0.00	20.91	
PERIOD		0.15479	ug/m^3	RES_270	979980.30	3742758.81	20.58	0.00	20.58	
PERIOD		3.38338	ug/m^3	RES_271	980000.30	3742458.81	20.18	0.00	20.18	
PERIOD		2.43978	ug/m^3	RES_272	980000.30	3742478.81	20.34	0.00	20.34	
PERIOD		1.78300	ug/m^3	RES_273	980000.30	3742498.81	20.51	0.00	20.51	
PERIOD		1.33756	ug/m^3	RES_274	980000.30	3742518.81	20.69	0.00	20.69	
PERIOD		1.03040	ug/m^3	RES_275	980000.30	3742538.81	20.86	0.00	20.86	
PERIOD		0.81891	ug/m^3	RES_276	980000.30	3742558.81	20.80	0.00	20.80	
PERIOD		0.66337	ug/m^3	RES_277	980000.30	3742578.81	20.71	0.00	20.71	
PERIOD		0.54584	ug/m^3	RES_278	980000.30	3742598.81	20.61	0.00	20.61	
PERIOD		0.45060	ug/m^3	RES_279	980000.30	3742618.81	20.84	0.00	20.84	
PERIOD		0.37928	ug/m^3	RES_280	980000.30	3742638.81	20.89	0.00	20.89	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.32529	ug/m^3	RES_281	980000.30	3742658.81	20.70	0.00	20.70	
PERIOD		0.27995	ug/m^3	RES_282	980000.30	3742678.81	20.78	0.00	20.78	
PERIOD		0.24325	ug/m^3	RES_283	980000.30	3742698.81	20.88	0.00	20.88	
PERIOD		0.21341	ug/m^3	RES_284	980000.30	3742718.81	20.97	0.00	20.97	
PERIOD		0.19016	ug/m^3	RES_285	980000.30	3742738.81	20.73	0.00	20.73	
PERIOD		0.17050	ug/m^3	RES_286	980000.30	3742758.81	20.49	0.00	20.49	
PERIOD		1.34072	ug/m^3	RES_287	980020.30	3742518.81	20.33	0.00	20.33	
PERIOD		1.04886	ug/m^3	RES_288	980020.30	3742538.81	20.52	0.00	20.52	
PERIOD		0.84607	ug/m^3	RES_289	980020.30	3742558.81	20.48	0.00	20.48	
PERIOD		0.69401	ug/m^3	RES_290	980020.30	3742578.81	20.43	0.00	20.43	
PERIOD		0.57679	ug/m^3	RES_291	980020.30	3742598.81	20.40	0.00	20.40	
PERIOD		0.48233	ug/m^3	RES_292	980020.30	3742618.81	20.58	0.00	20.58	
PERIOD		0.40968	ug/m^3	RES_293	980020.30	3742638.81	20.61	0.00	20.61	
PERIOD		0.35364	ug/m^3	RES_294	980020.30	3742658.81	20.38	0.00	20.38	
PERIOD		0.30550	ug/m^3	RES_295	980020.30	3742678.81	20.49	0.00	20.49	
PERIOD		0.26597	ug/m^3	RES_296	980020.30	3742698.81	20.65	0.00	20.65	
PERIOD		0.23372	ug/m^3	RES_297	980020.30	3742718.81	20.75	0.00	20.75	
PERIOD		0.20785	ug/m^3	RES_298	980020.30	3742738.81	20.61	0.00	20.61	
PERIOD		0.18598	ug/m^3	RES_299	980020.30	3742758.81	20.47	0.00	20.47	
PERIOD		0.43327	ug/m^3	RES_300	980040.30	3742638.81	20.36	0.00	20.36	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.37578	ug/m^3	RES_301	980040.30	3742658.81	20.23	0.00	20.23	
PERIOD		0.32669	ug/m^3	RES_302	980040.30	3742678.81	20.34	0.00	20.34	
PERIOD		0.28594	ug/m^3	RES_303	980040.30	3742698.81	20.47	0.00	20.47	
PERIOD		0.25230	ug/m^3	RES_304	980040.30	3742718.81	20.54	0.00	20.54	
PERIOD		0.22455	ug/m^3	RES_305	980040.30	3742738.81	20.47	0.00	20.47	
PERIOD		3.97266	ug/m^3	RES_306	980047.32	3742438.94	19.50	0.00	19.50	
PERIOD		2.91775	ug/m^3	RES_307	980047.32	3742458.94	19.54	0.00	19.54	
PERIOD		2.18015	ug/m^3	RES_308	980047.32	3742478.94	19.63	0.00	19.63	
PERIOD		1.66920	ug/m^3	RES_309	980047.32	3742498.94	19.73	0.00	19.73	
PERIOD		1.31028	ug/m^3	RES_310	980047.32	3742518.94	19.83	0.00	19.83	
PERIOD		1.05129	ug/m^3	RES_311	980047.32	3742538.94	19.93	0.00	19.93	
PERIOD		3.09731	ug/m^3	RES_312	980067.32	3742418.94	19.54	0.00	19.54	
PERIOD		3.60793	ug/m^3	RES_313	980067.32	3742438.94	19.61	0.00	19.61	
PERIOD		2.66646	ug/m^3	RES_314	980067.32	3742458.94	19.66	0.00	19.66	
PERIOD		2.02363	ug/m^3	RES_315	980067.32	3742478.94	19.67	0.00	19.67	
PERIOD		1.57685	ug/m^3	RES_316	980067.32	3742498.94	19.74	0.00	19.74	
PERIOD		1.25938	ug/m^3	RES_317	980067.32	3742518.94	19.80	0.00	19.80	
PERIOD		1.02768	ug/m^3	RES_318	980067.32	3742538.94	19.83	0.00	19.83	
PERIOD		0.85377	ug/m^3	RES_319	980067.32	3742558.94	19.82	0.00	19.82	
PERIOD		0.71898	ug/m^3	RES_320	980067.32	3742578.94	19.83	0.00	19.83	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		4.40951	ug/m^3	RES_321	980087.32	3742418.94	19.57	0.00	19.57	
PERIOD		3.19913	ug/m^3	RES_322	980087.32	3742438.94	19.76	0.00	19.76	
PERIOD		2.39162	ug/m^3	RES_323	980087.32	3742458.94	19.86	0.00	19.86	
PERIOD		1.85467	ug/m^3	RES_324	980087.32	3742478.94	19.84	0.00	19.84	
PERIOD		1.47280	ug/m^3	RES_325	980087.32	3742498.94	19.90	0.00	19.90	
PERIOD		1.19776	ug/m^3	RES_326	980087.32	3742518.94	19.93	0.00	19.93	
PERIOD		0.99396	ug/m^3	RES_327	980087.32	3742538.94	19.90	0.00	19.90	
PERIOD		0.83702	ug/m^3	RES_328	980087.32	3742558.94	19.87	0.00	19.87	
PERIOD		0.71301	ug/m^3	RES_329	980087.32	3742578.94	19.87	0.00	19.87	
PERIOD		3.56599	ug/m^3	RES_330	980107.32	3742398.94	19.38	0.00	19.38	
PERIOD		3.80663	ug/m^3	RES_331	980107.32	3742418.94	19.62	0.00	19.62	
PERIOD		2.79877	ug/m^3	RES_332	980107.32	3742438.94	19.87	0.00	19.87	
PERIOD		2.14224	ug/m^3	RES_333	980107.32	3742458.94	20.01	0.00	20.01	
PERIOD		1.69500	ug/m^3	RES_334	980107.32	3742478.94	20.03	0.00	20.03	
PERIOD		1.37373	ug/m^3	RES_335	980107.32	3742498.94	20.07	0.00	20.07	
PERIOD		1.13643	ug/m^3	RES_336	980107.32	3742518.94	20.08	0.00	20.08	
PERIOD		0.95610	ug/m^3	RES_337	980107.32	3742538.94	20.05	0.00	20.05	
PERIOD		0.81512	ug/m^3	RES_338	980107.32	3742558.94	20.01	0.00	20.01	
PERIOD		0.70225	ug/m^3	RES_339	980107.32	3742578.94	19.98	0.00	19.98	
PERIOD		4.45040	ug/m^3	RES_340	980127.32	3742398.94	19.43	0.00	19.43	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.23456	ug/m^3	RES_341	980127.32	3742418.94	19.68	0.00	19.68	
PERIOD		2.45782	ug/m^3	RES_342	980127.32	3742438.94	19.89	0.00	19.89	
PERIOD		1.93105	ug/m^3	RES_343	980127.32	3742458.94	20.05	0.00	20.05	
PERIOD		1.55906	ug/m^3	RES_344	980127.32	3742478.94	20.16	0.00	20.16	
PERIOD		1.28665	ug/m^3	RES_345	980127.32	3742498.94	20.20	0.00	20.20	
PERIOD		1.08042	ug/m^3	RES_346	980127.32	3742518.94	20.21	0.00	20.21	
PERIOD		0.91997	ug/m^3	RES_347	980127.32	3742538.94	20.20	0.00	20.20	
PERIOD		0.79251	ug/m^3	RES_348	980127.32	3742558.94	20.17	0.00	20.17	
PERIOD		0.68903	ug/m^3	RES_349	980127.32	3742578.94	20.15	0.00	20.15	
PERIOD		0.60366	ug/m^3	RES_350	980127.32	3742598.94	20.14	0.00	20.14	
PERIOD		3.81201	ug/m^3	RES_351	980147.32	3742378.94	19.27	0.00	19.27	
PERIOD		3.66067	ug/m^3	RES_352	980147.32	3742398.94	19.54	0.00	19.54	
PERIOD		2.77098	ug/m^3	RES_353	980147.32	3742418.94	19.69	0.00	19.69	
PERIOD		2.17304	ug/m^3	RES_354	980147.32	3742438.94	19.83	0.00	19.83	
PERIOD		1.75149	ug/m^3	RES_355	980147.32	3742458.94	19.97	0.00	19.97	
PERIOD		1.44249	ug/m^3	RES_356	980147.32	3742478.94	20.13	0.00	20.13	
PERIOD		1.20967	ug/m^3	RES_357	980147.32	3742498.94	20.24	0.00	20.24	
PERIOD		1.02919	ug/m^3	RES_358	980147.32	3742518.94	20.31	0.00	20.31	
PERIOD		0.88664	ug/m^3	RES_359	980147.32	3742538.94	20.30	0.00	20.30	
PERIOD		0.77093	ug/m^3	RES_360	980147.32	3742558.94	20.31	0.00	20.31	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.67570	ug/m^3	RES_361	980147.32	3742578.94	20.32	0.00	20.32	
PERIOD		0.59617	ug/m^3	RES_362	980147.32	3742598.94	20.34	0.00	20.34	
PERIOD		0.52854	ug/m^3	RES_363	980147.32	3742618.94	20.43	0.00	20.43	
PERIOD		4.09168	ug/m^3	RES_364	980167.32	3742378.94	19.31	0.00	19.31	
PERIOD		3.07772	ug/m^3	RES_365	980167.32	3742398.94	19.53	0.00	19.53	
PERIOD		2.40569	ug/m^3	RES_366	980167.32	3742418.94	19.73	0.00	19.73	
PERIOD		1.93729	ug/m^3	RES_367	980167.32	3742438.94	19.87	0.00	19.87	
PERIOD		1.59692	ug/m^3	RES_368	980167.32	3742458.94	20.01	0.00	20.01	
PERIOD		1.33950	ug/m^3	RES_369	980167.32	3742478.94	20.19	0.00	20.19	
PERIOD		1.14081	ug/m^3	RES_370	980167.32	3742498.94	20.29	0.00	20.29	
PERIOD		0.98355	ug/m^3	RES_371	980167.32	3742518.94	20.33	0.00	20.33	
PERIOD		0.85606	ug/m^3	RES_372	980167.32	3742538.94	20.36	0.00	20.36	
PERIOD		0.75153	ug/m^3	RES_373	980167.32	3742558.94	20.34	0.00	20.34	
PERIOD		0.66450	ug/m^3	RES_374	980167.32	3742578.94	20.29	0.00	20.29	
PERIOD		0.59037	ug/m^3	RES_375	980167.32	3742598.94	20.31	0.00	20.31	
PERIOD		0.52641	ug/m^3	RES_376	980167.32	3742618.94	20.43	0.00	20.43	
PERIOD		0.47105	ug/m^3	RES_377	980167.32	3742638.94	20.62	0.00	20.62	
PERIOD		0.42324	ug/m^3	RES_378	980167.32	3742658.94	20.80	0.00	20.80	
PERIOD		4.54965	ug/m^3	RES_379	980187.32	3742358.94	19.11	0.00	19.11	
PERIOD		3.41170	ug/m^3	RES_380	980187.32	3742378.94	19.26	0.00	19.26	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.65437	ug/m^3	RES_381	980187.32	3742398.94	19.43	0.00	19.43	
PERIOD		2.12858	ug/m^3	RES_382	980187.32	3742418.94	19.67	0.00	19.67	
PERIOD		1.75159	ug/m^3	RES_383	980187.32	3742438.94	19.85	0.00	19.85	
PERIOD		1.47041	ug/m^3	RES_384	980187.32	3742458.94	20.02	0.00	20.02	
PERIOD		1.25340	ug/m^3	RES_385	980187.32	3742478.94	20.17	0.00	20.17	
PERIOD		1.08240	ug/m^3	RES_386	980187.32	3742498.94	20.22	0.00	20.22	
PERIOD		0.94425	ug/m^3	RES_387	980187.32	3742518.94	20.22	0.00	20.22	
PERIOD		0.82994	ug/m^3	RES_388	980187.32	3742538.94	20.25	0.00	20.25	
PERIOD		0.73419	ug/m^3	RES_389	980187.32	3742558.94	20.29	0.00	20.29	
PERIOD		0.65285	ug/m^3	RES_390	980187.32	3742578.94	20.36	0.00	20.36	
PERIOD		0.58328	ug/m^3	RES_391	980187.32	3742598.94	20.44	0.00	20.44	
PERIOD		0.52275	ug/m^3	RES_392	980187.32	3742618.94	20.61	0.00	20.61	
PERIOD		0.46990	ug/m^3	RES_393	980187.32	3742638.94	20.86	0.00	20.86	
PERIOD		0.42460	ug/m^3	RES_394	980187.32	3742658.94	20.93	0.00	20.93	
PERIOD		0.38525	ug/m^3	RES_395	980187.32	3742678.94	20.90	0.00	20.90	
PERIOD		5.04513	ug/m^3	RES_396	980207.32	3742338.94	18.87	0.00	18.87	
PERIOD		3.78083	ug/m^3	RES_397	980207.32	3742358.94	19.03	0.00	19.03	
PERIOD		2.93242	ug/m^3	RES_398	980207.32	3742378.94	19.15	0.00	19.15	
PERIOD		2.34366	ug/m^3	RES_399	980207.32	3742398.94	19.30	0.00	19.30	
PERIOD		1.92042	ug/m^3	RES_400	980207.32	3742418.94	19.53	0.00	19.53	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.60751	ug/m^3	RES_401	980207.32	3742438.94	19.78	0.00	19.78	
PERIOD		1.36929	ug/m^3	RES_402	980207.32	3742458.94	20.00	0.00	20.00	
PERIOD		1.18341	ug/m^3	RES_403	980207.32	3742478.94	20.08	0.00	20.08	
PERIOD		1.03381	ug/m^3	RES_404	980207.32	3742498.94	20.10	0.00	20.10	
PERIOD		0.91085	ug/m^3	RES_405	980207.32	3742518.94	20.08	0.00	20.08	
PERIOD		0.80747	ug/m^3	RES_406	980207.32	3742538.94	20.10	0.00	20.10	
PERIOD		0.71908	ug/m^3	RES_407	980207.32	3742558.94	20.20	0.00	20.20	
PERIOD		0.64282	ug/m^3	RES_408	980207.32	3742578.94	20.37	0.00	20.37	
PERIOD		0.57676	ug/m^3	RES_409	980207.32	3742598.94	20.58	0.00	20.58	
PERIOD		0.51934	ug/m^3	RES_410	980207.32	3742618.94	20.79	0.00	20.79	
PERIOD		0.46926	ug/m^3	RES_411	980207.32	3742638.94	20.97	0.00	20.97	
PERIOD		0.42615	ug/m^3	RES_412	980207.32	3742658.94	20.92	0.00	20.92	
PERIOD		0.38803	ug/m^3	RES_413	980207.32	3742678.94	20.88	0.00	20.88	
PERIOD		0.35394	ug/m^3	RES_414	980207.32	3742698.94	20.93	0.00	20.93	
PERIOD		4.17163	ug/m^3	RES_415	980227.32	3742338.94	18.91	0.00	18.91	
PERIOD		3.23645	ug/m^3	RES_416	980227.32	3742358.94	18.95	0.00	18.95	
PERIOD		2.57708	ug/m^3	RES_417	980227.32	3742378.94	19.13	0.00	19.13	
PERIOD		2.10439	ug/m^3	RES_418	980227.32	3742398.94	19.35	0.00	19.35	
PERIOD		1.75913	ug/m^3	RES_419	980227.32	3742418.94	19.53	0.00	19.53	
PERIOD		1.49561	ug/m^3	RES_420	980227.32	3742438.94	19.76	0.00	19.76	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.28999	ug/m^3	RES_421	980227.32	3742458.94	19.98	0.00	19.98	
PERIOD		1.12792	ug/m^3	RES_422	980227.32	3742478.94	19.98	0.00	19.98	
PERIOD		0.99471	ug/m^3	RES_423	980227.32	3742498.94	19.98	0.00	19.98	
PERIOD		0.88342	ug/m^3	RES_424	980227.32	3742518.94	19.97	0.00	19.97	
PERIOD		0.78871	ug/m^3	RES_425	980227.32	3742538.94	19.99	0.00	19.99	
PERIOD		0.70646	ug/m^3	RES_426	980227.32	3742558.94	20.12	0.00	20.12	
PERIOD		0.63452	ug/m^3	RES_427	980227.32	3742578.94	20.36	0.00	20.36	
PERIOD		0.57158	ug/m^3	RES_428	980227.32	3742598.94	20.66	0.00	20.66	
PERIOD		0.51686	ug/m^3	RES_429	980227.32	3742618.94	20.88	0.00	20.88	
PERIOD		0.46922	ug/m^3	RES_430	980227.32	3742638.94	20.96	0.00	20.96	
PERIOD		0.42762	ug/m^3	RES_431	980227.32	3742658.94	20.89	0.00	20.89	
PERIOD		0.39047	ug/m^3	RES_432	980227.32	3742678.94	20.88	0.00	20.88	
PERIOD		0.35683	ug/m^3	RES_433	980227.32	3742698.94	21.04	0.00	21.04	
PERIOD		0.32710	ug/m^3	RES_434	980227.32	3742718.94	21.12	0.00	21.12	
PERIOD		0.30053	ug/m^3	RES_435	980227.32	3742738.94	21.20	0.00	21.20	
PERIOD		4.63112	ug/m^3	RES_436	980247.32	3742318.94	18.81	0.00	18.81	
PERIOD		3.57123	ug/m^3	RES_437	980247.32	3742338.94	18.91	0.00	18.91	
PERIOD		2.84365	ug/m^3	RES_438	980247.32	3742358.94	19.02	0.00	19.02	
PERIOD		2.31847	ug/m^3	RES_439	980247.32	3742378.94	19.18	0.00	19.18	
PERIOD		1.93250	ug/m^3	RES_440	980247.32	3742398.94	19.35	0.00	19.35	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.63952	ug/m^3	RES_441	980247.32	3742418.94	19.55	0.00	19.55	
PERIOD		1.41104	ug/m^3	RES_442	980247.32	3742438.94	19.78	0.00	19.78	
PERIOD		1.22949	ug/m^3	RES_443	980247.32	3742458.94	19.99	0.00	19.99	
PERIOD		1.08436	ug/m^3	RES_444	980247.32	3742478.94	19.99	0.00	19.99	
PERIOD		0.96395	ug/m^3	RES_445	980247.32	3742498.94	19.95	0.00	19.95	
PERIOD		0.86234	ug/m^3	RES_446	980247.32	3742518.94	19.89	0.00	19.89	
PERIOD		0.77359	ug/m^3	RES_447	980247.32	3742538.94	19.98	0.00	19.98	
PERIOD		0.69611	ug/m^3	RES_448	980247.32	3742558.94	20.15	0.00	20.15	
PERIOD		0.62784	ug/m^3	RES_449	980247.32	3742578.94	20.42	0.00	20.42	
PERIOD		0.56819	ug/m^3	RES_450	980247.32	3742598.94	20.65	0.00	20.65	
PERIOD		0.51596	ug/m^3	RES_451	980247.32	3742618.94	20.79	0.00	20.79	
PERIOD		0.47010	ug/m^3	RES_452	980247.32	3742638.94	20.82	0.00	20.82	
PERIOD		0.42932	ug/m^3	RES_453	980247.32	3742658.94	20.84	0.00	20.84	
PERIOD		0.39283	ug/m^3	RES_454	980247.32	3742678.94	20.90	0.00	20.90	
PERIOD		0.36001	ug/m^3	RES_455	980247.32	3742698.94	21.03	0.00	21.03	
PERIOD		0.33074	ug/m^3	RES_456	980247.32	3742718.94	21.14	0.00	21.14	
PERIOD		0.30449	ug/m^3	RES_457	980247.32	3742738.94	21.26	0.00	21.26	
PERIOD		0.28089	ug/m^3	RES_458	980247.32	3742758.94	21.37	0.00	21.37	
PERIOD		5.20099	ug/m^3	RES_459	980267.32	3742298.94	18.83	0.00	18.83	
PERIOD		3.99635	ug/m^3	RES_460	980267.32	3742318.94	18.86	0.00	18.86	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.17037	ug/m^3	RES_461	980267.32	3742338.94	18.88	0.00	18.88	
PERIOD		2.57644	ug/m^3	RES_462	980267.32	3742358.94	19.08	0.00	19.08	
PERIOD		2.14118	ug/m^3	RES_463	980267.32	3742378.94	19.23	0.00	19.23	
PERIOD		1.81346	ug/m^3	RES_464	980267.32	3742398.94	19.36	0.00	19.36	
PERIOD		1.55718	ug/m^3	RES_465	980267.32	3742418.94	19.54	0.00	19.54	
PERIOD		1.35320	ug/m^3	RES_466	980267.32	3742438.94	19.74	0.00	19.74	
PERIOD		1.18821	ug/m^3	RES_467	980267.32	3742458.94	19.93	0.00	19.93	
PERIOD		1.05494	ug/m^3	RES_468	980267.32	3742478.94	19.93	0.00	19.93	
PERIOD		0.94285	ug/m^3	RES_469	980267.32	3742498.94	19.92	0.00	19.92	
PERIOD		0.84725	ug/m^3	RES_470	980267.32	3742518.94	19.90	0.00	19.90	
PERIOD		0.76331	ug/m^3	RES_471	980267.32	3742538.94	20.00	0.00	20.00	
PERIOD		0.68956	ug/m^3	RES_472	980267.32	3742558.94	20.16	0.00	20.16	
PERIOD		0.62412	ug/m^3	RES_473	980267.32	3742578.94	20.41	0.00	20.41	
PERIOD		0.56728	ug/m^3	RES_474	980267.32	3742598.94	20.50	0.00	20.50	
PERIOD		0.51695	ug/m^3	RES_475	980267.32	3742618.94	20.55	0.00	20.55	
PERIOD		0.47223	ug/m^3	RES_476	980267.32	3742638.94	20.57	0.00	20.57	
PERIOD		0.43167	ug/m^3	RES_477	980267.32	3742658.94	20.74	0.00	20.74	
PERIOD		0.39549	ug/m^3	RES_478	980267.32	3742678.94	20.91	0.00	20.91	
PERIOD		0.36371	ug/m^3	RES_479	980267.32	3742698.94	20.90	0.00	20.90	
PERIOD		0.33468	ug/m^3	RES_480	980267.32	3742718.94	21.07	0.00	21.07	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.30846	ug/m^3	RES_481	980267.32	3742738.94	21.30	0.00	21.30	
PERIOD		0.28493	ug/m^3	RES_482	980267.32	3742758.94	21.49	0.00	21.49	
PERIOD		0.26417	ug/m^3	RES_483	980267.32	3742778.94	21.48	0.00	21.48	
PERIOD		5.98639	ug/m^3	RES_484	980287.32	3742278.94	18.85	0.00	18.85	
PERIOD		4.55940	ug/m^3	RES_485	980287.32	3742298.94	18.91	0.00	18.91	
PERIOD		3.60165	ug/m^3	RES_486	980287.32	3742318.94	18.89	0.00	18.89	
PERIOD		2.92278	ug/m^3	RES_487	980287.32	3742338.94	18.90	0.00	18.90	
PERIOD		2.41685	ug/m^3	RES_488	980287.32	3742358.94	19.08	0.00	19.08	
PERIOD		2.03675	ug/m^3	RES_489	980287.32	3742378.94	19.24	0.00	19.24	
PERIOD		1.74227	ug/m^3	RES_490	980287.32	3742398.94	19.39	0.00	19.39	
PERIOD		1.50926	ug/m^3	RES_491	980287.32	3742418.94	19.53	0.00	19.53	
PERIOD		1.32131	ug/m^3	RES_492	980287.32	3742438.94	19.66	0.00	19.66	
PERIOD		1.16673	ug/m^3	RES_493	980287.32	3742458.94	19.80	0.00	19.80	
PERIOD		1.04011	ug/m^3	RES_494	980287.32	3742478.94	19.82	0.00	19.82	
PERIOD		0.93243	ug/m^3	RES_495	980287.32	3742498.94	19.86	0.00	19.86	
PERIOD		0.83960	ug/m^3	RES_496	980287.32	3742518.94	19.93	0.00	19.93	
PERIOD		0.75841	ug/m^3	RES_497	980287.32	3742538.94	20.05	0.00	20.05	
PERIOD		0.68692	ug/m^3	RES_498	980287.32	3742558.94	20.20	0.00	20.20	
PERIOD		0.62360	ug/m^3	RES_499	980287.32	3742578.94	20.37	0.00	20.37	
PERIOD		0.56867	ug/m^3	RES_500	980287.32	3742598.94	20.34	0.00	20.34	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.51963	ug/m^3	RES_501	980287.32	3742618.94	20.31	0.00	20.31	
PERIOD		0.47472	ug/m^3	RES_502	980287.32	3742638.94	20.49	0.00	20.49	
PERIOD		0.43464	ug/m^3	RES_503	980287.32	3742658.94	20.68	0.00	20.68	
PERIOD		0.39893	ug/m^3	RES_504	980287.32	3742678.94	20.85	0.00	20.85	
PERIOD		0.36730	ug/m^3	RES_505	980287.32	3742698.94	20.92	0.00	20.92	
PERIOD		0.33884	ug/m^3	RES_506	980287.32	3742718.94	21.01	0.00	21.01	
PERIOD		0.31319	ug/m^3	RES_507	980287.32	3742738.94	21.11	0.00	21.11	
PERIOD		0.28987	ug/m^3	RES_508	980287.32	3742758.94	21.29	0.00	21.29	
PERIOD		0.26926	ug/m^3	RES_509	980287.32	3742778.94	21.26	0.00	21.26	
PERIOD		5.41273	ug/m^3	RES_510	980307.32	3742278.94	18.95	0.00	18.95	
PERIOD		4.22268	ug/m^3	RES_511	980307.32	3742298.94	19.01	0.00	19.01	
PERIOD		3.39331	ug/m^3	RES_512	980307.32	3742318.94	19.09	0.00	19.09	
PERIOD		2.79000	ug/m^3	RES_513	980307.32	3742338.94	19.19	0.00	19.19	
PERIOD		2.35150	ug/m^3	RES_514	980307.32	3742358.94	19.13	0.00	19.13	
PERIOD		2.00294	ug/m^3	RES_515	980307.32	3742378.94	19.22	0.00	19.22	
PERIOD		1.72041	ug/m^3	RES_516	980307.32	3742398.94	19.42	0.00	19.42	
PERIOD		1.49789	ug/m^3	RES_517	980307.32	3742418.94	19.52	0.00	19.52	
PERIOD		1.31646	ug/m^3	RES_518	980307.32	3742438.94	19.60	0.00	19.60	
PERIOD		1.16723	ug/m^3	RES_519	980307.32	3742458.94	19.64	0.00	19.64	
PERIOD		1.04157	ug/m^3	RES_520	980307.32	3742478.94	19.69	0.00	19.69	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.93397	ug/m^3	RES_521	980307.32	3742498.94	19.79	0.00	19.79	
PERIOD		0.84061	ug/m^3	RES_522	980307.32	3742518.94	19.96	0.00	19.96	
PERIOD		0.75973	ug/m^3	RES_523	980307.32	3742538.94	20.12	0.00	20.12	
PERIOD		0.68905	ug/m^3	RES_524	980307.32	3742558.94	20.24	0.00	20.24	
PERIOD		0.62684	ug/m^3	RES_525	980307.32	3742578.94	20.31	0.00	20.31	
PERIOD		0.57239	ug/m^3	RES_526	980307.32	3742598.94	20.25	0.00	20.25	
PERIOD		0.52344	ug/m^3	RES_527	980307.32	3742618.94	20.24	0.00	20.24	
PERIOD		0.47828	ug/m^3	RES_528	980307.32	3742638.94	20.49	0.00	20.49	
PERIOD		0.43852	ug/m^3	RES_529	980307.32	3742658.94	20.66	0.00	20.66	
PERIOD		0.40324	ug/m^3	RES_530	980307.32	3742678.94	20.78	0.00	20.78	
PERIOD		0.37157	ug/m^3	RES_531	980307.32	3742698.94	20.92	0.00	20.92	
PERIOD		0.34329	ug/m^3	RES_532	980307.32	3742718.94	21.01	0.00	21.01	
PERIOD		0.31797	ug/m^3	RES_533	980307.32	3742738.94	21.04	0.00	21.04	
PERIOD		0.29521	ug/m^3	RES_534	980307.32	3742758.94	21.02	0.00	21.02	
PERIOD		0.27466	ug/m^3	RES_535	980307.32	3742778.94	20.96	0.00	20.96	
PERIOD		6.99599	ug/m^3	RES_536	980327.32	3742258.94	18.84	0.00	18.84	
PERIOD		5.33761	ug/m^3	RES_537	980327.32	3742278.94	19.00	0.00	19.00	
PERIOD		4.21255	ug/m^3	RES_538	980327.32	3742298.94	19.09	0.00	19.09	
PERIOD		3.40511	ug/m^3	RES_539	980327.32	3742318.94	19.20	0.00	19.20	
PERIOD		2.81660	ug/m^3	RES_540	980327.32	3742338.94	19.30	0.00	19.30	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.38081	ug/m^3	RES_541	980327.32	3742358.94	19.30	0.00	19.30	
PERIOD		2.03694	ug/m^3	RES_542	980327.32	3742378.94	19.33	0.00	19.33	
PERIOD		1.76116	ug/m^3	RES_543	980327.32	3742398.94	19.36	0.00	19.36	
PERIOD		1.53405	ug/m^3	RES_544	980327.32	3742418.94	19.43	0.00	19.43	
PERIOD		1.34611	ug/m^3	RES_545	980327.32	3742438.94	19.51	0.00	19.51	
PERIOD		1.18950	ug/m^3	RES_546	980327.32	3742458.94	19.60	0.00	19.60	
PERIOD		1.05901	ug/m^3	RES_547	980327.32	3742478.94	19.68	0.00	19.68	
PERIOD		0.94776	ug/m^3	RES_548	980327.32	3742498.94	19.81	0.00	19.81	
PERIOD		0.85062	ug/m^3	RES_549	980327.32	3742518.94	20.06	0.00	20.06	
PERIOD		0.76841	ug/m^3	RES_550	980327.32	3742538.94	20.20	0.00	20.20	
PERIOD		0.69694	ug/m^3	RES_551	980327.32	3742558.94	20.27	0.00	20.27	
PERIOD		0.63479	ug/m^3	RES_552	980327.32	3742578.94	20.22	0.00	20.22	
PERIOD		0.57887	ug/m^3	RES_553	980327.32	3742598.94	20.24	0.00	20.24	
PERIOD		0.52875	ug/m^3	RES_554	980327.32	3742618.94	20.32	0.00	20.32	
PERIOD		0.48368	ug/m^3	RES_555	980327.32	3742638.94	20.50	0.00	20.50	
PERIOD		0.44390	ug/m^3	RES_556	980327.32	3742658.94	20.64	0.00	20.64	
PERIOD		0.40858	ug/m^3	RES_557	980327.32	3742678.94	20.75	0.00	20.75	
PERIOD		0.37690	ug/m^3	RES_558	980327.32	3742698.94	20.88	0.00	20.88	
PERIOD		0.34869	ug/m^3	RES_559	980327.32	3742718.94	20.94	0.00	20.94	
PERIOD		0.32348	ug/m^3	RES_560	980327.32	3742738.94	20.92	0.00	20.92	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.30088	ug/m^3	RES_561	980327.32	3742758.94	20.82	0.00	20.82	
PERIOD		7.23773	ug/m^3	RES_562	980347.32	3742258.94	18.77	0.00	18.77	
PERIOD		5.88597	ug/m^3	RES_563	980347.32	3742278.94	19.00	0.00	19.00	
PERIOD		4.57738	ug/m^3	RES_564	980347.32	3742298.94	19.17	0.00	19.17	
PERIOD		3.67517	ug/m^3	RES_565	980347.32	3742318.94	19.29	0.00	19.29	
PERIOD		3.03058	ug/m^3	RES_566	980347.32	3742338.94	19.35	0.00	19.35	
PERIOD		2.54079	ug/m^3	RES_567	980347.32	3742358.94	19.42	0.00	19.42	
PERIOD		2.16501	ug/m^3	RES_568	980347.32	3742378.94	19.44	0.00	19.44	
PERIOD		1.86778	ug/m^3	RES_569	980347.32	3742398.94	19.40	0.00	19.40	
PERIOD		1.62437	ug/m^3	RES_570	980347.32	3742418.94	19.35	0.00	19.35	
PERIOD		1.42119	ug/m^3	RES_571	980347.32	3742438.94	19.35	0.00	19.35	
PERIOD		1.24863	ug/m^3	RES_572	980347.32	3742458.94	19.47	0.00	19.47	
PERIOD		1.10280	ug/m^3	RES_573	980347.32	3742478.94	19.60	0.00	19.60	
PERIOD		0.98053	ug/m^3	RES_574	980347.32	3742498.94	19.77	0.00	19.77	
PERIOD		0.87642	ug/m^3	RES_575	980347.32	3742518.94	19.99	0.00	19.99	
PERIOD		0.78905	ug/m^3	RES_576	980347.32	3742538.94	20.11	0.00	20.11	
PERIOD		0.71368	ug/m^3	RES_577	980347.32	3742558.94	20.16	0.00	20.16	
PERIOD		0.64879	ug/m^3	RES_578	980347.32	3742578.94	20.10	0.00	20.10	
PERIOD		0.58995	ug/m^3	RES_579	980347.32	3742598.94	20.18	0.00	20.18	
PERIOD		0.53765	ug/m^3	RES_580	980347.32	3742618.94	20.33	0.00	20.33	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.49192	ug/m^3	RES_581	980347.32	3742638.94	20.45	0.00	20.45	
PERIOD		0.45135	ug/m^3	RES_582	980347.32	3742658.94	20.60	0.00	20.60	
PERIOD		0.41521	ug/m^3	RES_583	980347.32	3742678.94	20.78	0.00	20.78	
PERIOD		0.38364	ug/m^3	RES_584	980347.32	3742698.94	20.80	0.00	20.80	
PERIOD		0.35542	ug/m^3	RES_585	980347.32	3742718.94	20.78	0.00	20.78	
PERIOD		0.33012	ug/m^3	RES_586	980347.32	3742738.94	20.71	0.00	20.71	
PERIOD		5.47392	ug/m^3	RES_587	980367.32	3742298.94	19.21	0.00	19.21	
PERIOD		4.32699	ug/m^3	RES_588	980367.32	3742318.94	19.35	0.00	19.35	
PERIOD		3.49728	ug/m^3	RES_589	980367.32	3742338.94	19.38	0.00	19.38	
PERIOD		2.88463	ug/m^3	RES_590	980367.32	3742358.94	19.47	0.00	19.47	
PERIOD		2.42725	ug/m^3	RES_591	980367.32	3742378.94	19.49	0.00	19.49	
PERIOD		2.07454	ug/m^3	RES_592	980367.32	3742398.94	19.44	0.00	19.44	
PERIOD		1.78886	ug/m^3	RES_593	980367.32	3742418.94	19.35	0.00	19.35	
PERIOD		1.55099	ug/m^3	RES_594	980367.32	3742438.94	19.30	0.00	19.30	
PERIOD		1.35271	ug/m^3	RES_595	980367.32	3742458.94	19.31	0.00	19.31	
PERIOD		1.18439	ug/m^3	RES_596	980367.32	3742478.94	19.45	0.00	19.45	
PERIOD		1.04156	ug/m^3	RES_597	980367.32	3742498.94	19.63	0.00	19.63	
PERIOD		0.92239	ug/m^3	RES_598	980367.32	3742518.94	19.84	0.00	19.84	
PERIOD		0.82513	ug/m^3	RES_599	980367.32	3742538.94	19.92	0.00	19.92	
PERIOD		0.74200	ug/m^3	RES_600	980367.32	3742558.94	19.96	0.00	19.96	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.66902	ug/m^3	RES_601	980367.32	3742578.94	20.06	0.00	20.06	
PERIOD		0.60597	ug/m^3	RES_602	980367.32	3742598.94	20.16	0.00	20.16	
PERIOD		0.55137	ug/m^3	RES_603	980367.32	3742618.94	20.26	0.00	20.26	
PERIOD		0.50330	ug/m^3	RES_604	980367.32	3742638.94	20.42	0.00	20.42	
PERIOD		0.46133	ug/m^3	RES_605	980367.32	3742658.94	20.57	0.00	20.57	
PERIOD		0.42440	ug/m^3	RES_606	980367.32	3742678.94	20.70	0.00	20.70	
PERIOD		0.39236	ug/m^3	RES_607	980367.32	3742698.94	20.66	0.00	20.66	
PERIOD		0.36363	ug/m^3	RES_608	980367.32	3742718.94	20.61	0.00	20.61	
PERIOD		5.56975	ug/m^3	RES_609	980387.32	3742318.94	19.26	0.00	19.26	
PERIOD		4.32469	ug/m^3	RES_610	980387.32	3742338.94	19.45	0.00	19.45	
PERIOD		3.50415	ug/m^3	RES_611	980387.32	3742358.94	19.49	0.00	19.49	
PERIOD		2.90474	ug/m^3	RES_612	980387.32	3742378.94	19.47	0.00	19.47	
PERIOD		2.44239	ug/m^3	RES_613	980387.32	3742398.94	19.40	0.00	19.40	
PERIOD		2.07098	ug/m^3	RES_614	980387.32	3742418.94	19.39	0.00	19.39	
PERIOD		1.76838	ug/m^3	RES_615	980387.32	3742438.94	19.32	0.00	19.32	
PERIOD		1.52382	ug/m^3	RES_616	980387.32	3742458.94	19.17	0.00	19.17	
PERIOD		1.31803	ug/m^3	RES_617	980387.32	3742478.94	19.25	0.00	19.25	
PERIOD		1.14478	ug/m^3	RES_618	980387.32	3742498.94	19.41	0.00	19.41	
PERIOD		0.99828	ug/m^3	RES_619	980387.32	3742518.94	19.62	0.00	19.62	
PERIOD		0.88101	ug/m^3	RES_620	980387.32	3742538.94	19.73	0.00	19.73	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.78365	ug/m^3	RES_621	980387.32	3742558.94	19.81	0.00	19.81	
PERIOD		0.69920	ug/m^3	RES_622	980387.32	3742578.94	19.99	0.00	19.99	
PERIOD		0.62933	ug/m^3	RES_623	980387.32	3742598.94	20.12	0.00	20.12	
PERIOD		0.57058	ug/m^3	RES_624	980387.32	3742618.94	20.20	0.00	20.20	
PERIOD		0.51916	ug/m^3	RES_625	980387.32	3742638.94	20.37	0.00	20.37	
PERIOD		0.47505	ug/m^3	RES_626	980387.32	3742658.94	20.49	0.00	20.49	
PERIOD		0.43682	ug/m^3	RES_627	980387.32	3742678.94	20.54	0.00	20.54	
PERIOD		0.40338	ug/m^3	RES_628	980387.32	3742698.94	20.51	0.00	20.51	
PERIOD		4.65929	ug/m^3	RES_629	980407.32	3742358.94	19.32	0.00	19.32	
PERIOD		3.75622	ug/m^3	RES_630	980407.32	3742378.94	19.39	0.00	19.39	
PERIOD		3.08183	ug/m^3	RES_631	980407.32	3742398.94	19.39	0.00	19.39	
PERIOD		2.57248	ug/m^3	RES_632	980407.32	3742418.94	19.20	0.00	19.20	
PERIOD		2.15753	ug/m^3	RES_633	980407.32	3742438.94	19.00	0.00	19.00	
PERIOD		1.80926	ug/m^3	RES_634	980407.32	3742458.94	19.04	0.00	19.04	
PERIOD		1.52923	ug/m^3	RES_635	980407.32	3742478.94	19.09	0.00	19.09	
PERIOD		1.30684	ug/m^3	RES_636	980407.32	3742498.94	19.17	0.00	19.17	
PERIOD		1.11805	ug/m^3	RES_637	980407.32	3742518.94	19.39	0.00	19.39	
PERIOD		0.96497	ug/m^3	RES_638	980407.32	3742538.94	19.59	0.00	19.59	
PERIOD		0.84097	ug/m^3	RES_639	980407.32	3742558.94	19.78	0.00	19.78	
PERIOD		0.74283	ug/m^3	RES_640	980407.32	3742578.94	19.92	0.00	19.92	

Sensitive Receptor Summary

Tustin District Office Project
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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.66293	ug/m^3	RES_641	980407.32	3742598.94	20.05	0.00	20.05	
PERIOD		0.59663	ug/m^3	RES_642	980407.32	3742618.94	20.18	0.00	20.18	
PERIOD		0.54071	ug/m^3	RES_643	980407.32	3742638.94	20.31	0.00	20.31	
PERIOD		0.49339	ug/m^3	RES_644	980407.32	3742658.94	20.38	0.00	20.38	
PERIOD		0.45265	ug/m^3	RES_645	980407.32	3742678.94	20.40	0.00	20.40	
PERIOD		0.41700	ug/m^3	RES_646	980407.32	3742698.94	20.39	0.00	20.39	
PERIOD		4.61427	ug/m^3	RES_647	980427.32	3742378.94	19.03	0.00	19.03	
PERIOD		4.36159	ug/m^3	RES_648	980427.32	3742398.94	19.02	0.00	19.02	
PERIOD		3.52842	ug/m^3	RES_649	980427.32	3742418.94	18.85	0.00	18.85	
PERIOD		2.85505	ug/m^3	RES_650	980427.32	3742438.94	18.71	0.00	18.71	
PERIOD		2.30559	ug/m^3	RES_651	980427.32	3742458.94	18.94	0.00	18.94	
PERIOD		1.87324	ug/m^3	RES_652	980427.32	3742478.94	19.10	0.00	19.10	
PERIOD		1.55125	ug/m^3	RES_653	980427.32	3742498.94	19.22	0.00	19.22	
PERIOD		1.28887	ug/m^3	RES_654	980427.32	3742518.94	19.44	0.00	19.44	
PERIOD		1.07973	ug/m^3	RES_655	980427.32	3742538.94	19.64	0.00	19.64	
PERIOD		0.92105	ug/m^3	RES_656	980427.32	3742558.94	19.82	0.00	19.82	
PERIOD		0.80430	ug/m^3	RES_657	980427.32	3742578.94	19.86	0.00	19.86	
PERIOD		0.70924	ug/m^3	RES_658	980427.32	3742598.94	19.98	0.00	19.98	
PERIOD		0.63103	ug/m^3	RES_659	980427.32	3742618.94	20.19	0.00	20.19	
PERIOD		0.56922	ug/m^3	RES_660	980427.32	3742638.94	20.23	0.00	20.23	

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Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.51705	ug/m^3	RES_661	980427.32	3742658.94	20.26	0.00	20.26	
PERIOD		0.47237	ug/m^3	RES_662	980427.32	3742678.94	20.28	0.00	20.28	
PERIOD		4.19215	ug/m^3	RES_663	980447.32	3742438.94	18.48	0.00	18.48	
PERIOD		3.26726	ug/m^3	RES_664	980447.32	3742458.94	18.79	0.00	18.79	
PERIOD		2.53343	ug/m^3	RES_665	980447.32	3742478.94	19.05	0.00	19.05	
PERIOD		1.98623	ug/m^3	RES_666	980447.32	3742498.94	19.26	0.00	19.26	
PERIOD		1.56082	ug/m^3	RES_667	980447.32	3742518.94	19.45	0.00	19.45	
PERIOD		1.25617	ug/m^3	RES_668	980447.32	3742538.94	19.55	0.00	19.55	
PERIOD		1.04643	ug/m^3	RES_669	980447.32	3742558.94	19.57	0.00	19.57	
PERIOD		0.88803	ug/m^3	RES_670	980447.32	3742578.94	19.72	0.00	19.72	
PERIOD		0.76896	ug/m^3	RES_671	980447.32	3742598.94	19.90	0.00	19.90	
PERIOD		0.67718	ug/m^3	RES_672	980447.32	3742618.94	20.06	0.00	20.06	
PERIOD		0.60521	ug/m^3	RES_673	980447.32	3742638.94	20.11	0.00	20.11	
PERIOD		0.54583	ug/m^3	RES_674	980447.32	3742658.94	20.15	0.00	20.15	
PERIOD		3.90267	ug/m^3	RES_675	980467.32	3742478.94	18.84	0.00	18.84	
PERIOD		2.66322	ug/m^3	RES_676	980467.32	3742498.94	19.14	0.00	19.14	
PERIOD		1.90069	ug/m^3	RES_677	980467.32	3742518.94	19.33	0.00	19.33	
PERIOD		1.46142	ug/m^3	RES_678	980467.32	3742538.94	19.38	0.00	19.38	
PERIOD		1.18676	ug/m^3	RES_679	980467.32	3742558.94	19.26	0.00	19.26	
PERIOD		0.73012	ug/m^3	RES_680	980467.32	3742618.94	19.89	0.00	19.89	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.64559	ug/m^3	RES_681	980467.32	3742638.94	20.00	0.00	20.00	
PERIOD		2.08101	ug/m^3	RES_682	980487.32	3742518.94	19.06	0.00	19.06	
PERIOD		1.59814	ug/m^3	RES_683	980487.32	3742538.94	19.14	0.00	19.14	
PERIOD		0.53622	ug/m^3	P_001	980077.18	3742616.83	20.05	0.00	20.05	
PERIOD		0.46461	ug/m^3	P_002	980077.18	3742636.83	20.26	0.00	20.26	
PERIOD		0.40488	ug/m^3	P_003	980077.18	3742656.83	20.55	0.00	20.55	
PERIOD		0.35624	ug/m^3	P_004	980077.18	3742676.83	20.68	0.00	20.68	
PERIOD		0.31589	ug/m^3	P_005	980077.18	3742696.83	20.68	0.00	20.68	
PERIOD		0.28210	ug/m^3	P_006	980077.18	3742716.83	20.55	0.00	20.55	
PERIOD		0.25287	ug/m^3	P_007	980077.18	3742736.83	20.45	0.00	20.45	
PERIOD		0.53906	ug/m^3	P_008	980097.18	3742616.83	20.12	0.00	20.12	
PERIOD		0.47041	ug/m^3	P_009	980097.18	3742636.83	20.39	0.00	20.39	
PERIOD		0.41244	ug/m^3	P_010	980097.18	3742656.83	20.78	0.00	20.78	
PERIOD		0.36503	ug/m^3	P_011	980097.18	3742676.83	20.96	0.00	20.96	
PERIOD		0.32552	ug/m^3	P_012	980097.18	3742696.83	20.96	0.00	20.96	
PERIOD		0.29272	ug/m^3	P_013	980097.18	3742716.83	20.69	0.00	20.69	
PERIOD		0.26370	ug/m^3	P_014	980097.18	3742736.83	20.55	0.00	20.55	
PERIOD		0.47395	ug/m^3	P_015	980117.18	3742636.83	20.48	0.00	20.48	
PERIOD		0.41877	ug/m^3	P_016	980117.18	3742656.83	20.83	0.00	20.83	
PERIOD		0.37291	ug/m^3	P_017	980117.18	3742676.83	21.00	0.00	21.00	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.33438	ug/m^3	P_018	980117.18	3742696.83	20.97	0.00	20.97	
PERIOD		0.30198	ug/m^3	P_019	980117.18	3742716.83	20.70	0.00	20.70	
PERIOD		0.27304	ug/m^3	P_020	980117.18	3742736.83	20.59	0.00	20.59	
PERIOD		0.42351	ug/m^3	P_021	980137.18	3742656.83	20.81	0.00	20.81	
PERIOD		0.37933	ug/m^3	P_022	980137.18	3742676.83	20.94	0.00	20.94	
PERIOD		0.34194	ug/m^3	P_023	980137.18	3742696.83	20.86	0.00	20.86	
PERIOD		0.30994	ug/m^3	P_024	980137.18	3742716.83	20.62	0.00	20.62	
PERIOD		0.28106	ug/m^3	P_025	980137.18	3742736.83	20.58	0.00	20.58	
PERIOD		0.34809	ug/m^3	P_026	980157.18	3742696.83	20.73	0.00	20.73	
PERIOD		0.31622	ug/m^3	P_027	980157.18	3742716.83	20.61	0.00	20.61	
PERIOD		0.32083	ug/m^3	P_028	980177.18	3742716.83	20.77	0.00	20.77	
PERIOD		0.16642	ug/m^3	S_001	980089.92	3741804.77	17.51	0.00	17.51	
PERIOD		0.17805	ug/m^3	S_002	980089.92	3741824.77	17.50	0.00	17.50	
PERIOD		0.19226	ug/m^3	S_003	980089.92	3741844.77	17.49	0.00	17.49	
PERIOD		0.20997	ug/m^3	S_004	980089.92	3741864.77	17.48	0.00	17.48	
PERIOD		0.23265	ug/m^3	S_005	980089.92	3741884.77	17.50	0.00	17.50	
PERIOD		0.26259	ug/m^3	S_006	980089.92	3741904.77	17.51	0.00	17.51	
PERIOD		0.30368	ug/m^3	S_007	980089.92	3741924.77	17.51	0.00	17.51	
PERIOD		0.36310	ug/m^3	S_008	980089.92	3741944.77	17.53	0.00	17.53	
PERIOD		0.45513	ug/m^3	S_009	980089.92	3741964.77	17.60	0.00	17.60	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.62168	ug/m^3	S_010	980089.92	3741984.77	17.73	0.00	17.73	
PERIOD		0.99411	ug/m^3	S_011	980089.92	3742004.77	17.79	0.00	17.79	
PERIOD		1.87642	ug/m^3	S_012	980089.92	3742024.77	17.88	0.00	17.88	
PERIOD		0.17472	ug/m^3	S_013	980109.92	3741804.77	17.01	0.00	17.01	
PERIOD		0.18633	ug/m^3	S_014	980109.92	3741824.77	17.12	0.00	17.12	
PERIOD		0.20046	ug/m^3	S_015	980109.92	3741844.77	17.17	0.00	17.17	
PERIOD		0.21809	ug/m^3	S_016	980109.92	3741864.77	17.19	0.00	17.19	
PERIOD		0.24065	ug/m^3	S_017	980109.92	3741884.77	17.14	0.00	17.14	
PERIOD		0.27044	ug/m^3	S_018	980109.92	3741904.77	17.12	0.00	17.12	
PERIOD		0.31120	ug/m^3	S_019	980109.92	3741924.77	17.14	0.00	17.14	
PERIOD		0.37000	ug/m^3	S_020	980109.92	3741944.77	17.24	0.00	17.24	
PERIOD		0.46383	ug/m^3	S_021	980109.92	3741964.77	17.37	0.00	17.37	
PERIOD		0.63139	ug/m^3	S_022	980109.92	3741984.77	17.53	0.00	17.53	
PERIOD		0.96999	ug/m^3	S_023	980109.92	3742004.77	17.68	0.00	17.68	
PERIOD		1.64700	ug/m^3	S_024	980109.92	3742024.77	17.81	0.00	17.81	
PERIOD		0.17474	ug/m^3	S_025	980129.92	3741784.77	16.84	0.00	16.84	
PERIOD		0.18445	ug/m^3	S_026	980129.92	3741804.77	16.83	0.00	16.83	
PERIOD		0.19594	ug/m^3	S_027	980129.92	3741824.77	16.98	0.00	16.98	
PERIOD		0.20983	ug/m^3	S_028	980129.92	3741844.77	17.06	0.00	17.06	
PERIOD		0.22713	ug/m^3	S_029	980129.92	3741864.77	17.08	0.00	17.08	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.24918	ug/m^3	S_030	980129.92	3741884.77	16.92	0.00	16.92	
PERIOD		0.27823	ug/m^3	S_031	980129.92	3741904.77	16.85	0.00	16.85	
PERIOD		0.31802	ug/m^3	S_032	980129.92	3741924.77	16.84	0.00	16.84	
PERIOD		0.37631	ug/m^3	S_033	980129.92	3741944.77	17.00	0.00	17.00	
PERIOD		0.46826	ug/m^3	S_034	980129.92	3741964.77	17.17	0.00	17.17	
PERIOD		0.62668	ug/m^3	S_035	980129.92	3741984.77	17.36	0.00	17.36	
PERIOD		0.91896	ug/m^3	S_036	980129.92	3742004.77	17.59	0.00	17.59	
PERIOD		1.45850	ug/m^3	S_037	980129.92	3742024.77	17.79	0.00	17.79	
PERIOD		0.17828	ug/m^3	S_038	980149.92	3741764.77	16.72	0.00	16.72	
PERIOD		0.18664	ug/m^3	S_039	980149.92	3741784.77	16.69	0.00	16.69	
PERIOD		0.19625	ug/m^3	S_040	980149.92	3741804.77	16.79	0.00	16.79	
PERIOD		0.20747	ug/m^3	S_041	980149.92	3741824.77	16.94	0.00	16.94	
PERIOD		0.22093	ug/m^3	S_042	980149.92	3741844.77	17.06	0.00	17.06	
PERIOD		0.23755	ug/m^3	S_043	980149.92	3741864.77	17.15	0.00	17.15	
PERIOD		0.25880	ug/m^3	S_044	980149.92	3741884.77	17.01	0.00	17.01	
PERIOD		0.28676	ug/m^3	S_045	980149.92	3741904.77	16.86	0.00	16.86	
PERIOD		0.32533	ug/m^3	S_046	980149.92	3741924.77	16.70	0.00	16.70	
PERIOD		0.38133	ug/m^3	S_047	980149.92	3741944.77	16.84	0.00	16.84	
PERIOD		0.46799	ug/m^3	S_048	980149.92	3741964.77	17.04	0.00	17.04	
PERIOD		0.61187	ug/m^3	S_049	980149.92	3741984.77	17.25	0.00	17.25	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.86064	ug/m^3	S_050	980149.92	3742004.77	17.53	0.00	17.53	
PERIOD		1.30007	ug/m^3	S_051	980149.92	3742024.77	17.79	0.00	17.79	
PERIOD		2.13855	ug/m^3	S_052	980149.92	3742044.77	17.92	0.00	17.92	
PERIOD		0.18558	ug/m^3	S_053	980169.92	3741744.77	16.64	0.00	16.64	
PERIOD		0.19311	ug/m^3	S_054	980169.92	3741764.77	16.56	0.00	16.56	
PERIOD		0.20147	ug/m^3	S_055	980169.92	3741784.77	16.62	0.00	16.62	
PERIOD		0.21085	ug/m^3	S_056	980169.92	3741804.77	16.78	0.00	16.78	
PERIOD		0.22166	ug/m^3	S_057	980169.92	3741824.77	16.89	0.00	16.89	
PERIOD		0.23445	ug/m^3	S_058	980169.92	3741844.77	16.99	0.00	16.99	
PERIOD		0.25010	ug/m^3	S_059	980169.92	3741864.77	17.09	0.00	17.09	
PERIOD		0.27016	ug/m^3	S_060	980169.92	3741884.77	17.08	0.00	17.08	
PERIOD		0.29670	ug/m^3	S_061	980169.92	3741904.77	17.05	0.00	17.05	
PERIOD		0.33331	ug/m^3	S_062	980169.92	3741924.77	16.98	0.00	16.98	
PERIOD		0.38563	ug/m^3	S_063	980169.92	3741944.77	16.98	0.00	16.98	
PERIOD		0.46511	ug/m^3	S_064	980169.92	3741964.77	17.02	0.00	17.02	
PERIOD		0.59253	ug/m^3	S_065	980169.92	3741984.77	17.17	0.00	17.17	
PERIOD		0.80283	ug/m^3	S_066	980169.92	3742004.77	17.45	0.00	17.45	
PERIOD		1.16480	ug/m^3	S_067	980169.92	3742024.77	17.74	0.00	17.74	
PERIOD		1.82907	ug/m^3	S_068	980169.92	3742044.77	17.96	0.00	17.96	
PERIOD		0.20433	ug/m^3	S_069	980189.92	3741744.77	16.36	0.00	16.36	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.21206	ug/m^3	S_070	980189.92	3741764.77	16.46	0.00	16.46	
PERIOD		0.22030	ug/m^3	S_071	980189.92	3741784.77	16.60	0.00	16.60	
PERIOD		0.22934	ug/m^3	S_072	980189.92	3741804.77	16.77	0.00	16.77	
PERIOD		0.23946	ug/m^3	S_073	980189.92	3741824.77	16.85	0.00	16.85	
PERIOD		0.25128	ug/m^3	S_074	980189.92	3741844.77	16.94	0.00	16.94	
PERIOD		0.26570	ug/m^3	S_075	980189.92	3741864.77	17.03	0.00	17.03	
PERIOD		0.28410	ug/m^3	S_076	980189.92	3741884.77	17.15	0.00	17.15	
PERIOD		0.30851	ug/m^3	S_077	980189.92	3741904.77	17.25	0.00	17.25	
PERIOD		0.34212	ug/m^3	S_078	980189.92	3741924.77	17.33	0.00	17.33	
PERIOD		0.39022	ug/m^3	S_079	980189.92	3741944.77	17.28	0.00	17.28	
PERIOD		0.46200	ug/m^3	S_080	980189.92	3741964.77	17.21	0.00	17.21	
PERIOD		0.57312	ug/m^3	S_081	980189.92	3741984.77	17.14	0.00	17.14	
PERIOD		0.75089	ug/m^3	S_082	980189.92	3742004.77	17.30	0.00	17.30	
PERIOD		1.04881	ug/m^3	S_083	980189.92	3742024.77	17.56	0.00	17.56	
PERIOD		1.57286	ug/m^3	S_084	980189.92	3742044.77	17.88	0.00	17.88	
PERIOD		0.22118	ug/m^3	S_085	980209.92	3741724.77	16.33	0.00	16.33	
PERIOD		0.22892	ug/m^3	S_086	980209.92	3741744.77	16.26	0.00	16.26	
PERIOD		0.23679	ug/m^3	S_087	980209.92	3741764.77	16.43	0.00	16.43	
PERIOD		0.24479	ug/m^3	S_088	980209.92	3741784.77	16.59	0.00	16.59	
PERIOD		0.25321	ug/m^3	S_089	980209.92	3741804.77	16.75	0.00	16.75	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.26234	ug/m^3	S_090	980209.92	3741824.77	16.83	0.00	16.83	
PERIOD		0.27279	ug/m^3	S_091	980209.92	3741844.77	16.93	0.00	16.93	
PERIOD		0.28541	ug/m^3	S_092	980209.92	3741864.77	17.05	0.00	17.05	
PERIOD		0.30153	ug/m^3	S_093	980209.92	3741884.77	17.24	0.00	17.24	
PERIOD		0.32312	ug/m^3	S_094	980209.92	3741904.77	17.43	0.00	17.43	
PERIOD		0.35296	ug/m^3	S_095	980209.92	3741924.77	17.63	0.00	17.63	
PERIOD		0.39627	ug/m^3	S_096	980209.92	3741944.77	17.60	0.00	17.60	
PERIOD		0.46036	ug/m^3	S_097	980209.92	3741964.77	17.46	0.00	17.46	
PERIOD		0.55687	ug/m^3	S_098	980209.92	3741984.77	17.20	0.00	17.20	
PERIOD		0.70708	ug/m^3	S_099	980209.92	3742004.77	17.19	0.00	17.19	
PERIOD		0.95159	ug/m^3	S_100	980209.92	3742024.77	17.35	0.00	17.35	
PERIOD		1.36452	ug/m^3	S_101	980209.92	3742044.77	17.75	0.00	17.75	
PERIOD		2.10629	ug/m^3	S_102	980209.92	3742064.77	17.97	0.00	17.97	
PERIOD		0.24497	ug/m^3	S_103	980229.92	3741704.77	16.26	0.00	16.26	
PERIOD		0.25364	ug/m^3	S_104	980229.92	3741724.77	16.15	0.00	16.15	
PERIOD		0.26204	ug/m^3	S_105	980229.92	3741744.77	16.23	0.00	16.23	
PERIOD		0.26991	ug/m^3	S_106	980229.92	3741764.77	16.38	0.00	16.38	
PERIOD		0.27758	ug/m^3	S_107	980229.92	3741784.77	16.52	0.00	16.52	
PERIOD		0.28496	ug/m^3	S_108	980229.92	3741804.77	16.65	0.00	16.65	
PERIOD		0.29249	ug/m^3	S_109	980229.92	3741824.77	16.79	0.00	16.79	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.30084	ug/m^3	S_110	980229.92	3741844.77	16.95	0.00	16.95	
PERIOD		0.31070	ug/m^3	S_111	980229.92	3741864.77	17.16	0.00	17.16	
PERIOD		0.32391	ug/m^3	S_112	980229.92	3741884.77	17.36	0.00	17.36	
PERIOD		0.34203	ug/m^3	S_113	980229.92	3741904.77	17.57	0.00	17.57	
PERIOD		0.36763	ug/m^3	S_114	980229.92	3741924.77	17.81	0.00	17.81	
PERIOD		0.40578	ug/m^3	S_115	980229.92	3741944.77	17.82	0.00	17.82	
PERIOD		0.46192	ug/m^3	S_116	980229.92	3741964.77	17.68	0.00	17.68	
PERIOD		0.54580	ug/m^3	S_117	980229.92	3741984.77	17.30	0.00	17.30	
PERIOD		0.67291	ug/m^3	S_118	980229.92	3742004.77	17.17	0.00	17.17	
PERIOD		0.87262	ug/m^3	S_119	980229.92	3742024.77	17.20	0.00	17.20	
PERIOD		1.20025	ug/m^3	S_120	980229.92	3742044.77	17.62	0.00	17.62	
PERIOD		1.76069	ug/m^3	S_121	980229.92	3742064.77	17.87	0.00	17.87	
PERIOD		0.28899	ug/m^3	S_122	980249.92	3741704.77	16.07	0.00	16.07	
PERIOD		0.29910	ug/m^3	S_123	980249.92	3741724.77	16.05	0.00	16.05	
PERIOD		0.30800	ug/m^3	S_124	980249.92	3741744.77	16.19	0.00	16.19	
PERIOD		0.31635	ug/m^3	S_125	980249.92	3741764.77	16.33	0.00	16.33	
PERIOD		0.32310	ug/m^3	S_126	980249.92	3741784.77	16.45	0.00	16.45	
PERIOD		0.32854	ug/m^3	S_127	980249.92	3741804.77	16.57	0.00	16.57	
PERIOD		0.33368	ug/m^3	S_128	980249.92	3741824.77	16.74	0.00	16.74	
PERIOD		0.33878	ug/m^3	S_129	980249.92	3741844.77	16.95	0.00	16.95	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.34456	ug/m^3	S_130	980249.92	3741864.77	17.20	0.00	17.20	
PERIOD		0.35385	ug/m^3	S_131	980249.92	3741884.77	17.41	0.00	17.41	
PERIOD		0.36778	ug/m^3	S_132	980249.92	3741904.77	17.62	0.00	17.62	
PERIOD		0.38830	ug/m^3	S_133	980249.92	3741924.77	17.91	0.00	17.91	
PERIOD		0.42074	ug/m^3	S_134	980249.92	3741944.77	17.95	0.00	17.95	
PERIOD		0.46907	ug/m^3	S_135	980249.92	3741964.77	17.83	0.00	17.83	
PERIOD		0.54151	ug/m^3	S_136	980249.92	3741984.77	17.44	0.00	17.44	
PERIOD		0.64895	ug/m^3	S_137	980249.92	3742004.77	17.23	0.00	17.23	
PERIOD		0.81330	ug/m^3	S_138	980249.92	3742024.77	17.19	0.00	17.19	
PERIOD		1.07475	ug/m^3	S_139	980249.92	3742044.77	17.55	0.00	17.55	
PERIOD		1.49479	ug/m^3	S_140	980249.92	3742064.77	17.82	0.00	17.82	
PERIOD		2.16397	ug/m^3	S_141	980249.92	3742084.77	17.99	0.00	17.99	
PERIOD		0.33877	ug/m^3	S_142	980269.92	3741684.77	15.98	0.00	15.98	
PERIOD		0.35361	ug/m^3	S_143	980269.92	3741704.77	15.93	0.00	15.93	
PERIOD		0.36555	ug/m^3	S_144	980269.92	3741724.77	16.00	0.00	16.00	
PERIOD		0.37628	ug/m^3	S_145	980269.92	3741744.77	16.14	0.00	16.14	
PERIOD		0.38423	ug/m^3	S_146	980269.92	3741764.77	16.28	0.00	16.28	
PERIOD		0.38922	ug/m^3	S_147	980269.92	3741784.77	16.41	0.00	16.41	
PERIOD		0.39168	ug/m^3	S_148	980269.92	3741804.77	16.54	0.00	16.54	
PERIOD		0.39245	ug/m^3	S_149	980269.92	3741824.77	16.74	0.00	16.74	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.39194	ug/m^3	S_150	980269.92	3741844.77	16.96	0.00	16.96	
PERIOD		0.39184	ug/m^3	S_151	980269.92	3741864.77	17.20	0.00	17.20	
PERIOD		0.39548	ug/m^3	S_152	980269.92	3741884.77	17.42	0.00	17.42	
PERIOD		0.40345	ug/m^3	S_153	980269.92	3741904.77	17.65	0.00	17.65	
PERIOD		0.41869	ug/m^3	S_154	980269.92	3741924.77	17.83	0.00	17.83	
PERIOD		0.44479	ug/m^3	S_155	980269.92	3741944.77	17.87	0.00	17.87	
PERIOD		0.48486	ug/m^3	S_156	980269.92	3741964.77	17.81	0.00	17.81	
PERIOD		0.54624	ug/m^3	S_157	980269.92	3741984.77	17.53	0.00	17.53	
PERIOD		0.63645	ug/m^3	S_158	980269.92	3742004.77	17.37	0.00	17.37	
PERIOD		0.77194	ug/m^3	S_159	980269.92	3742024.77	17.32	0.00	17.32	
PERIOD		0.98091	ug/m^3	S_160	980269.92	3742044.77	17.57	0.00	17.57	
PERIOD		1.29780	ug/m^3	S_161	980269.92	3742064.77	17.80	0.00	17.80	
PERIOD		1.78231	ug/m^3	S_162	980269.92	3742084.77	18.02	0.00	18.02	
PERIOD		2.60286	ug/m^3	S_163	980269.92	3742104.77	18.10	0.00	18.10	
PERIOD		0.43424	ug/m^3	S_164	980289.92	3741684.77	15.88	0.00	19.14	
PERIOD		0.45427	ug/m^3	S_165	980289.92	3741704.77	15.82	0.00	15.82	
PERIOD		0.47120	ug/m^3	S_166	980289.92	3741724.77	15.94	0.00	15.94	
PERIOD		0.48480	ug/m^3	S_167	980289.92	3741744.77	16.09	0.00	16.09	
PERIOD		0.49221	ug/m^3	S_168	980289.92	3741764.77	16.24	0.00	16.24	
PERIOD		0.49242	ug/m^3	S_169	980289.92	3741784.77	16.40	0.00	16.40	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.48761	ug/m^3	S_170	980289.92	3741804.77	16.58	0.00	16.58	
PERIOD		0.48075	ug/m^3	S_171	980289.92	3741824.77	16.80	0.00	16.80	
PERIOD		0.46958	ug/m^3	S_172	980289.92	3741844.77	17.02	0.00	17.02	
PERIOD		0.46008	ug/m^3	S_173	980289.92	3741864.77	17.23	0.00	17.23	
PERIOD		0.45462	ug/m^3	S_174	980289.92	3741884.77	17.46	0.00	17.46	
PERIOD		0.45477	ug/m^3	S_175	980289.92	3741904.77	17.66	0.00	17.66	
PERIOD		0.46382	ug/m^3	S_176	980289.92	3741924.77	17.71	0.00	17.71	
PERIOD		0.48173	ug/m^3	S_177	980289.92	3741944.77	17.76	0.00	17.76	
PERIOD		0.51235	ug/m^3	S_178	980289.92	3741964.77	17.80	0.00	17.80	
PERIOD		0.56280	ug/m^3	S_179	980289.92	3741984.77	17.62	0.00	17.62	
PERIOD		0.63765	ug/m^3	S_180	980289.92	3742004.77	17.48	0.00	17.48	
PERIOD		0.74899	ug/m^3	S_181	980289.92	3742024.77	17.36	0.00	17.36	
PERIOD		0.91485	ug/m^3	S_182	980289.92	3742044.77	17.56	0.00	17.56	
PERIOD		1.16013	ug/m^3	S_183	980289.92	3742064.77	17.78	0.00	17.78	
PERIOD		1.52737	ug/m^3	S_184	980289.92	3742084.77	18.02	0.00	18.02	
PERIOD		2.06809	ug/m^3	S_185	980289.92	3742104.77	18.15	0.00	18.15	
PERIOD		2.90204	ug/m^3	S_186	980289.92	3742124.77	18.24	0.00	18.24	
PERIOD		0.59796	ug/m^3	S_187	980309.92	3741684.77	15.84	0.00	15.84	
PERIOD		0.62925	ug/m^3	S_188	980309.92	3741704.77	15.78	0.00	15.78	
PERIOD		0.66447	ug/m^3	S_189	980309.92	3741724.77	15.91	0.00	15.91	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.68009	ug/m^3	S_190	980309.92	3741744.77	16.07	0.00	16.07	
PERIOD		0.67715	ug/m^3	S_191	980309.92	3741764.77	16.25	0.00	16.25	
PERIOD		0.66397	ug/m^3	S_192	980309.92	3741784.77	16.44	0.00	16.44	
PERIOD		0.64551	ug/m^3	S_193	980309.92	3741804.77	16.66	0.00	16.66	
PERIOD		0.61938	ug/m^3	S_194	980309.92	3741824.77	16.89	0.00	16.89	
PERIOD		0.58689	ug/m^3	S_195	980309.92	3741844.77	17.13	0.00	17.13	
PERIOD		0.56084	ug/m^3	S_196	980309.92	3741864.77	17.37	0.00	17.37	
PERIOD		0.54260	ug/m^3	S_197	980309.92	3741884.77	17.55	0.00	17.55	
PERIOD		0.53124	ug/m^3	S_198	980309.92	3741904.77	17.68	0.00	17.68	
PERIOD		0.53074	ug/m^3	S_199	980309.92	3741924.77	17.67	0.00	17.67	
PERIOD		0.53728	ug/m^3	S_200	980309.92	3741944.77	17.76	0.00	17.76	
PERIOD		0.55482	ug/m^3	S_201	980309.92	3741964.77	17.93	0.00	17.93	
PERIOD		0.59445	ug/m^3	S_202	980309.92	3741984.77	17.75	0.00	17.75	
PERIOD		0.65630	ug/m^3	S_203	980309.92	3742004.77	17.56	0.00	17.56	
PERIOD		0.74700	ug/m^3	S_204	980309.92	3742024.77	17.38	0.00	17.38	
PERIOD		0.87899	ug/m^3	S_205	980309.92	3742044.77	17.53	0.00	17.53	
PERIOD		1.07270	ug/m^3	S_206	980309.92	3742064.77	17.73	0.00	17.73	
PERIOD		1.35331	ug/m^3	S_207	980309.92	3742084.77	17.96	0.00	17.96	
PERIOD		1.74855	ug/m^3	S_208	980309.92	3742104.77	18.13	0.00	18.13	
PERIOD		2.33343	ug/m^3	S_209	980309.92	3742124.77	18.25	0.00	18.25	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.27386	ug/m^3	S_210	980309.92	3742144.77	18.25	0.00	18.25	
PERIOD		0.93061	ug/m^3	S_211	980329.92	3741684.77	16.06	0.00	16.06	
PERIOD		1.04859	ug/m^3	S_212	980329.92	3741704.77	16.00	0.00	16.00	
PERIOD		1.07712	ug/m^3	S_213	980329.92	3741724.77	16.05	0.00	16.05	
PERIOD		1.05706	ug/m^3	S_214	980329.92	3741744.77	16.15	0.00	16.15	
PERIOD		1.02316	ug/m^3	S_215	980329.92	3741764.77	16.32	0.00	16.32	
PERIOD		0.97464	ug/m^3	S_216	980329.92	3741784.77	16.51	0.00	16.51	
PERIOD		0.91870	ug/m^3	S_217	980329.92	3741804.77	16.74	0.00	16.74	
PERIOD		0.84733	ug/m^3	S_218	980329.92	3741824.77	17.00	0.00	17.00	
PERIOD		0.77865	ug/m^3	S_219	980329.92	3741844.77	17.28	0.00	17.28	
PERIOD		0.71971	ug/m^3	S_220	980329.92	3741864.77	17.57	0.00	17.57	
PERIOD		0.67576	ug/m^3	S_221	980329.92	3741884.77	17.75	0.00	17.75	
PERIOD		0.64606	ug/m^3	S_222	980329.92	3741904.77	17.84	0.00	17.84	
PERIOD		0.62726	ug/m^3	S_223	980329.92	3741924.77	17.88	0.00	17.88	
PERIOD		0.61547	ug/m^3	S_224	980329.92	3741944.77	18.03	0.00	18.03	
PERIOD		0.61560	ug/m^3	S_225	980329.92	3741964.77	18.30	0.00	18.30	
PERIOD		0.64710	ug/m^3	S_226	980329.92	3741984.77	17.94	0.00	17.94	
PERIOD		0.69784	ug/m^3	S_227	980329.92	3742004.77	17.62	0.00	17.62	
PERIOD		0.77025	ug/m^3	S_228	980329.92	3742024.77	17.39	0.00	17.39	
PERIOD		0.87526	ug/m^3	S_229	980329.92	3742044.77	17.47	0.00	17.47	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.02937	ug/m^3	S_230	980329.92	3742064.77	17.64	0.00	17.64	
PERIOD		1.24951	ug/m^3	S_231	980329.92	3742084.77	17.88	0.00	17.88	
PERIOD		1.56097	ug/m^3	S_232	980329.92	3742104.77	18.07	0.00	18.07	
PERIOD		1.99902	ug/m^3	S_233	980329.92	3742124.77	18.21	0.00	18.21	
PERIOD		2.61547	ug/m^3	S_234	980329.92	3742144.77	18.22	0.00	18.22	
PERIOD		3.62889	ug/m^3	S_235	980329.92	3742164.77	18.20	0.00	18.20	
PERIOD		1.89390	ug/m^3	S_236	980349.92	3741744.77	16.24	0.00	16.24	
PERIOD		1.72758	ug/m^3	S_237	980349.92	3741764.77	16.37	0.00	16.37	
PERIOD		1.56288	ug/m^3	S_238	980349.92	3741784.77	16.56	0.00	16.56	
PERIOD		1.43103	ug/m^3	S_239	980349.92	3741804.77	16.80	0.00	16.80	
PERIOD		1.27846	ug/m^3	S_240	980349.92	3741824.77	17.05	0.00	17.05	
PERIOD		1.13172	ug/m^3	S_241	980349.92	3741844.77	17.32	0.00	17.32	
PERIOD		1.00715	ug/m^3	S_242	980349.92	3741864.77	17.60	0.00	17.60	
PERIOD		0.91477	ug/m^3	S_243	980349.92	3741884.77	17.79	0.00	17.79	
PERIOD		0.84190	ug/m^3	S_244	980349.92	3741904.77	17.90	0.00	17.90	
PERIOD		0.79541	ug/m^3	S_245	980349.92	3741924.77	17.84	0.00	17.84	
PERIOD		0.76258	ug/m^3	S_246	980349.92	3741944.77	17.81	0.00	17.81	
PERIOD		0.74196	ug/m^3	S_247	980349.92	3741964.77	17.84	0.00	17.84	
PERIOD		0.74724	ug/m^3	S_248	980349.92	3741984.77	17.73	0.00	17.73	
PERIOD		0.77534	ug/m^3	S_249	980349.92	3742004.77	17.58	0.00	17.58	

Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.82672	ug/m^3	S_250	980349.92	3742024.77	17.33	0.00	17.33	
PERIOD		0.90709	ug/m^3	S_251	980349.92	3742044.77	17.37	0.00	17.37	
PERIOD		1.03029	ug/m^3	S_252	980349.92	3742064.77	17.53	0.00	17.53	
PERIOD		1.20807	ug/m^3	S_253	980349.92	3742084.77	17.81	0.00	17.81	
PERIOD		1.46560	ug/m^3	S_254	980349.92	3742104.77	17.98	0.00	17.98	
PERIOD		1.82549	ug/m^3	S_255	980349.92	3742124.77	18.10	0.00	18.10	
PERIOD		2.33333	ug/m^3	S_256	980349.92	3742144.77	18.16	0.00	18.16	
PERIOD		3.09183	ug/m^3	S_257	980349.92	3742164.77	18.18	0.00	18.18	
PERIOD		2.14076	ug/m^3	S_258	980369.92	3741824.77	17.01	0.00	17.01	
PERIOD		1.85302	ug/m^3	S_259	980369.92	3741844.77	17.24	0.00	17.24	
PERIOD		1.59574	ug/m^3	S_260	980369.92	3741864.77	17.49	0.00	17.49	
PERIOD		1.37039	ug/m^3	S_261	980369.92	3741884.77	17.68	0.00	17.68	
PERIOD		1.20394	ug/m^3	S_262	980369.92	3741904.77	17.82	0.00	17.82	
PERIOD		1.09794	ug/m^3	S_263	980369.92	3741924.77	17.71	0.00	17.71	
PERIOD		1.01521	ug/m^3	S_264	980369.92	3741944.77	17.60	0.00	17.60	
PERIOD		0.95388	ug/m^3	S_265	980369.92	3741964.77	17.52	0.00	17.52	
PERIOD		0.91633	ug/m^3	S_266	980369.92	3741984.77	17.46	0.00	17.46	
PERIOD		0.90577	ug/m^3	S_267	980369.92	3742004.77	17.39	0.00	17.39	
PERIOD		0.92702	ug/m^3	S_268	980369.92	3742024.77	17.26	0.00	17.26	
PERIOD		0.98230	ug/m^3	S_269	980369.92	3742044.77	17.32	0.00	17.32	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.07867	ug/m^3	S_270	980369.92	3742064.77	17.47	0.00	17.47	
PERIOD		1.22673	ug/m^3	S_271	980369.92	3742084.77	17.75	0.00	17.75	
PERIOD		1.45299	ug/m^3	S_272	980369.92	3742104.77	17.92	0.00	17.92	
PERIOD		1.78395	ug/m^3	S_273	980369.92	3742124.77	18.02	0.00	18.02	
PERIOD		2.27469	ug/m^3	S_274	980369.92	3742144.77	18.07	0.00	18.07	
PERIOD		2.27294	ug/m^3	S_275	980389.92	3741884.77	17.46	0.00	17.46	
PERIOD		1.88948	ug/m^3	S_276	980389.92	3741904.77	17.62	0.00	17.62	
PERIOD		1.62650	ug/m^3	S_277	980389.92	3741924.77	17.52	0.00	17.52	
PERIOD		1.43658	ug/m^3	S_278	980389.92	3741944.77	17.34	0.00	17.34	
PERIOD		1.28429	ug/m^3	S_279	980389.92	3741964.77	17.07	0.00	17.07	
PERIOD		1.17425	ug/m^3	S_280	980389.92	3741984.77	17.06	0.00	17.06	
PERIOD		1.11164	ug/m^3	S_281	980389.92	3742004.77	17.13	0.00	17.13	
PERIOD		1.09080	ug/m^3	S_282	980389.92	3742024.77	17.14	0.00	17.14	
PERIOD		1.11339	ug/m^3	S_283	980389.92	3742044.77	17.26	0.00	17.26	
PERIOD		1.18388	ug/m^3	S_284	980389.92	3742064.77	17.43	0.00	17.43	
PERIOD		1.31011	ug/m^3	S_285	980389.92	3742084.77	17.71	0.00	17.71	
PERIOD		1.52545	ug/m^3	S_286	980389.92	3742104.77	17.88	0.00	17.88	
PERIOD		1.87138	ug/m^3	S_287	980389.92	3742124.77	17.96	0.00	17.96	
PERIOD		2.12515	ug/m^3	S_288	980409.92	3741944.77	17.05	0.00	17.05	
PERIOD		1.79972	ug/m^3	S_289	980409.92	3741964.77	16.48	0.00	16.48	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.58256	ug/m^3	S_290	980409.92	3741984.77	16.56	0.00	16.56	
PERIOD		1.43103	ug/m^3	S_291	980409.92	3742004.77	16.85	0.00	16.85	
PERIOD		1.34552	ug/m^3	S_292	980409.92	3742024.77	16.99	0.00	16.99	
PERIOD		1.32314	ug/m^3	S_293	980409.92	3742044.77	17.19	0.00	17.19	
PERIOD		1.35899	ug/m^3	S_294	980409.92	3742064.77	17.43	0.00	17.43	
PERIOD		1.47026	ug/m^3	S_295	980409.92	3742084.77	17.69	0.00	17.69	
PERIOD		1.69937	ug/m^3	S_296	980409.92	3742104.77	17.82	0.00	17.82	
PERIOD		2.11026	ug/m^3	S_297	980409.92	3742124.77	17.86	0.00	17.86	
PERIOD		2.71382	ug/m^3	S_298	980429.92	3741964.77	16.39	0.00	16.39	
PERIOD		2.23446	ug/m^3	S_299	980429.92	3741984.77	16.38	0.00	16.38	
PERIOD		1.93856	ug/m^3	S_300	980429.92	3742004.77	16.60	0.00	16.60	
PERIOD		1.73837	ug/m^3	S_301	980429.92	3742024.77	16.84	0.00	16.84	
PERIOD		1.64010	ug/m^3	S_302	980429.92	3742044.77	17.14	0.00	17.14	
PERIOD		1.62950	ug/m^3	S_303	980429.92	3742064.77	17.46	0.00	17.46	
PERIOD		1.73397	ug/m^3	S_304	980429.92	3742084.77	17.66	0.00	17.66	
PERIOD		2.01254	ug/m^3	S_305	980429.92	3742104.77	17.75	0.00	17.75	
PERIOD		2.74195	ug/m^3	S_306	980449.92	3742004.77	16.68	0.00	16.68	
PERIOD		2.33639	ug/m^3	S_307	980449.92	3742024.77	16.90	0.00	16.90	
PERIOD		2.12054	ug/m^3	S_308	980449.92	3742044.77	17.15	0.00	17.15	
PERIOD		2.04037	ug/m^3	S_309	980449.92	3742064.77	17.44	0.00	17.44	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.14905	ug/m^3	S_310	980449.92	3742084.77	17.53	0.00	17.53	
PERIOD		3.28820	ug/m^3	S_311	980469.92	3742024.77	16.97	0.00	16.97	
PERIOD		2.82387	ug/m^3	S_312	980469.92	3742044.77	17.17	0.00	17.17	
PERIOD		2.66638	ug/m^3	S_313	980469.92	3742064.77	17.36	0.00	17.36	
PERIOD		2.79066	ug/m^3	S_314	980469.92	3742084.77	17.43	0.00	17.43	
PERIOD		3.95203	ug/m^3	S_315	980489.92	3742044.77	17.16	0.00	17.16	
PERIOD		3.58154	ug/m^3	S_316	980489.92	3742064.77	17.28	0.00	17.28	
PERIOD		5.04046	ug/m^3	W_001	980404.60	3742206.17	18.79	0.00	18.79	
PERIOD		4.99780	ug/m^3	W_002	980395.70	3742240.27	18.75	0.00	18.75	
PERIOD		3.48620	ug/m^3	W_003	980504.67	3742161.69	18.52	0.00	18.52	
PERIOD		3.30202	ug/m^3	W_004	980443.89	3742297.35	19.09	0.00	19.09	
PERIOD		3.23058	ug/m^3	W_005	980480.95	3742379.63	18.99	0.00	18.99	
PERIOD		2.12670	ug/m^3	W_006	980519.50	3742227.67	18.81	0.00	18.81	
PERIOD		1.83631	ug/m^3	W_007	980546.18	3742255.09	19.11	0.00	19.11	
PERIOD		1.60935	ug/m^3	W_008	980555.82	3742291.42	19.22	0.00	19.22	
PERIOD		1.50052	ug/m^3	W_009	980578.06	3742308.47	19.33	0.00	19.33	
PERIOD		1.29655	ug/m^3	W_010	980601.04	3742345.53	19.42	0.00	19.42	
PERIOD		3.12561	ug/m^3	W_011	980500.96	3742427.81	19.03	0.00	19.03	
PERIOD		2.42866	ug/m^3	W_012	980518.78	3742452.39	19.29	0.00	19.29	
PERIOD		1.12785	ug/m^3	W_013	980625.18	3742376.52	19.47	0.00	19.47	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.97412	ug/m^3	W_014	980640.01	3742414.89	19.45	0.00	19.45	
PERIOD		1.22630	ug/m^3	W_015	980561.52	3742496.87	19.93	0.00	19.93	
PERIOD		0.78032	ug/m^3	W_016	980665.30	3742472.45	19.69	0.00	19.69	
PERIOD		1.10007	ug/m^3	W_017	980513.48	3742577.06	19.19	0.00	19.19	
PERIOD		0.32564	ug/m^3	W_018	979899.40	3742334.47	19.24	0.00	19.24	
PERIOD		0.24546	ug/m^3	W_019	979936.77	3742099.68	17.99	0.00	17.99	
PERIOD		0.13627	ug/m^3	W_020	979761.24	3742285.82	19.04	0.00	19.04	
PERIOD		0.10781	ug/m^3	W_021	979733.51	3742181.86	18.30	0.00	18.30	
PERIOD		0.22684	ug/m^3	W_022	979924.14	3742077.70	17.92	0.00	17.92	
PERIOD		0.11859	ug/m^3	W_023	979822.04	3741883.42	17.43	0.00	17.43	
PERIOD		0.08660	ug/m^3	W_024	979674.08	3742101.64	18.09	0.00	18.09	
PERIOD		0.35293	ug/m^3	W_025	979851.61	3742394.38	19.48	0.00	19.48	
PERIOD		0.32572	ug/m^3	W_026	979873.78	3742356.02	19.42	0.00	19.42	
PERIOD		0.06797	ug/m^3	W_027	979586.82	3742234.43	19.12	0.00	19.12	
PERIOD		0.07080	ug/m^3	W_028	979600.20	3742183.36	18.86	0.00	18.86	
PERIOD		0.06147	ug/m^3	W_029	979550.35	3742193.09	18.98	0.00	18.98	
PERIOD		0.07442	ug/m^3	W_030	979618.44	3742121.35	18.69	0.00	18.69	
PERIOD		0.15479	ug/m^3	W_031	979858.81	3741944.73	17.56	0.00	17.56	
PERIOD		0.09492	ug/m^3	W_032	979760.89	3741849.21	17.63	0.00	17.63	
1-HR	1ST	22.76468	ug/m^3	RES_001	979660.30	3742498.81	19.96	0.00	19.96	12/11/2020, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	23.41061	ug/m^3	RES_002	979660.30	3742518.81	20.04	0.00	20.04	12/7/2022, 8
1-HR	1ST	25.88507	ug/m^3	RES_003	979660.30	3742538.81	20.10	0.00	20.10	12/7/2022, 8
1-HR	1ST	28.11582	ug/m^3	RES_004	979660.30	3742558.81	20.16	0.00	20.16	12/7/2022, 8
1-HR	1ST	29.83976	ug/m^3	RES_005	979660.30	3742578.81	20.25	0.00	20.25	12/7/2022, 8
1-HR	1ST	32.15243	ug/m^3	RES_006	979660.30	3742598.81	20.26	0.00	20.26	1/17/2023, 8
1-HR	1ST	34.89316	ug/m^3	RES_007	979660.30	3742618.81	20.30	0.00	20.30	1/17/2023, 8
1-HR	1ST	37.33063	ug/m^3	RES_008	979660.30	3742638.81	20.42	0.00	20.42	1/17/2023, 8
1-HR	1ST	39.35198	ug/m^3	RES_009	979660.30	3742658.81	20.49	0.00	20.49	1/17/2023, 8
1-HR	1ST	40.89421	ug/m^3	RES_010	979660.30	3742678.81	20.53	0.00	20.53	1/17/2023, 8
1-HR	1ST	41.93752	ug/m^3	RES_011	979660.30	3742698.81	20.51	0.00	20.51	1/17/2023, 8
1-HR	1ST	42.48863	ug/m^3	RES_012	979660.30	3742718.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	42.58274	ug/m^3	RES_013	979660.30	3742738.81	21.08	0.00	21.08	1/17/2023, 8
1-HR	1ST	42.29098	ug/m^3	RES_014	979660.30	3742758.81	21.12	0.00	21.12	1/17/2023, 8
1-HR	1ST	41.66175	ug/m^3	RES_015	979660.30	3742778.81	21.10	0.00	21.10	1/17/2023, 8
1-HR	1ST	23.38764	ug/m^3	RES_016	979680.30	3742498.81	20.06	0.00	20.06	12/11/2020, 8
1-HR	1ST	25.65948	ug/m^3	RES_017	979680.30	3742518.81	20.14	0.00	20.14	12/7/2022, 8
1-HR	1ST	28.38653	ug/m^3	RES_018	979680.30	3742538.81	20.21	0.00	20.21	12/7/2022, 8
1-HR	1ST	30.66231	ug/m^3	RES_019	979680.30	3742558.81	20.28	0.00	20.28	12/7/2022, 8
1-HR	1ST	32.68845	ug/m^3	RES_020	979680.30	3742578.81	20.34	0.00	20.34	1/17/2023, 8
1-HR	1ST	35.80008	ug/m^3	RES_021	979680.30	3742598.81	20.33	0.00	20.33	1/17/2023, 8

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Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	38.59508	ug/m^3	RES_022	979680.30	3742618.81	20.35	0.00	20.35	1/17/2023, 8
1-HR	1ST	40.92233	ug/m^3	RES_023	979680.30	3742638.81	20.51	0.00	20.51	1/17/2023, 8
1-HR	1ST	42.69349	ug/m^3	RES_024	979680.30	3742658.81	20.64	0.00	20.64	1/17/2023, 8
1-HR	1ST	43.88267	ug/m^3	RES_025	979680.30	3742678.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	44.51438	ug/m^3	RES_026	979680.30	3742698.81	20.68	0.00	20.68	1/17/2023, 8
1-HR	1ST	44.61931	ug/m^3	RES_027	979680.30	3742718.81	20.93	0.00	20.93	1/17/2023, 8
1-HR	1ST	44.13451	ug/m^3	RES_028	979680.30	3742738.81	21.36	0.00	21.36	1/17/2023, 8
1-HR	1ST	43.50775	ug/m^3	RES_029	979680.30	3742758.81	21.30	0.00	21.30	1/17/2023, 8
1-HR	1ST	42.53965	ug/m^3	RES_030	979680.30	3742778.81	21.17	0.00	21.17	1/17/2023, 8
1-HR	1ST	41.28676	ug/m^3	RES_031	979680.30	3742798.81	20.96	0.00	20.96	1/17/2023, 8
1-HR	1ST	25.10933	ug/m^3	RES_032	979700.30	3742498.81	20.19	0.00	20.19	12/7/2022, 8
1-HR	1ST	28.34929	ug/m^3	RES_033	979700.30	3742518.81	20.27	0.00	20.27	12/7/2022, 8
1-HR	1ST	31.28523	ug/m^3	RES_034	979700.30	3742538.81	20.36	0.00	20.36	12/7/2022, 8
1-HR	1ST	33.48177	ug/m^3	RES_035	979700.30	3742558.81	20.44	0.00	20.44	12/7/2022, 8
1-HR	1ST	36.67794	ug/m^3	RES_036	979700.30	3742578.81	20.47	0.00	20.47	1/17/2023, 8
1-HR	1ST	39.91644	ug/m^3	RES_037	979700.30	3742598.81	20.47	0.00	20.47	1/17/2023, 8
1-HR	1ST	42.62409	ug/m^3	RES_038	979700.30	3742618.81	20.50	0.00	20.50	1/17/2023, 8
1-HR	1ST	44.67946	ug/m^3	RES_039	979700.30	3742638.81	20.68	0.00	20.68	1/17/2023, 8
1-HR	1ST	46.04778	ug/m^3	RES_040	979700.30	3742658.81	20.81	0.00	20.81	1/17/2023, 8
1-HR	1ST	46.75774	ug/m^3	RES_041	979700.30	3742678.81	20.90	0.00	20.90	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	46.87789	ug/m^3	RES_042	979700.30	3742698.81	20.85	0.00	20.85	1/17/2023, 8
1-HR	1ST	46.47243	ug/m^3	RES_043	979700.30	3742718.81	21.07	0.00	21.07	1/17/2023, 8
1-HR	1ST	45.35007	ug/m^3	RES_044	979700.30	3742738.81	21.49	0.00	21.49	1/17/2023, 8
1-HR	1ST	44.33655	ug/m^3	RES_045	979700.30	3742758.81	21.39	0.00	21.39	1/17/2023, 8
1-HR	1ST	43.08231	ug/m^3	RES_046	979700.30	3742778.81	21.24	0.00	21.24	1/17/2023, 8
1-HR	1ST	41.49311	ug/m^3	RES_047	979700.30	3742798.81	21.05	0.00	21.05	1/17/2023, 8
1-HR	1ST	27.89310	ug/m^3	RES_048	979720.30	3742498.81	20.32	0.00	20.32	12/7/2022, 8
1-HR	1ST	31.58299	ug/m^3	RES_049	979720.30	3742518.81	20.42	0.00	20.42	12/7/2022, 8
1-HR	1ST	34.61766	ug/m^3	RES_050	979720.30	3742538.81	20.51	0.00	20.51	12/7/2022, 8
1-HR	1ST	37.48409	ug/m^3	RES_051	979720.30	3742558.81	20.58	0.00	20.58	1/17/2023, 8
1-HR	1ST	41.28268	ug/m^3	RES_052	979720.30	3742578.81	20.59	0.00	20.59	1/17/2023, 8
1-HR	1ST	44.47495	ug/m^3	RES_053	979720.30	3742598.81	20.61	0.00	20.61	1/17/2023, 8
1-HR	1ST	46.89281	ug/m^3	RES_054	979720.30	3742618.81	20.65	0.00	20.65	1/17/2023, 8
1-HR	1ST	48.47975	ug/m^3	RES_055	979720.30	3742638.81	20.85	0.00	20.85	1/17/2023, 8
1-HR	1ST	49.28361	ug/m^3	RES_056	979720.30	3742658.81	20.98	0.00	20.98	1/17/2023, 8
1-HR	1ST	49.39195	ug/m^3	RES_057	979720.30	3742678.81	21.05	0.00	21.05	1/17/2023, 8
1-HR	1ST	48.91665	ug/m^3	RES_058	979720.30	3742698.81	21.03	0.00	21.03	1/17/2023, 8
1-HR	1ST	47.95585	ug/m^3	RES_059	979720.30	3742718.81	21.21	0.00	21.21	1/17/2023, 8
1-HR	1ST	46.31381	ug/m^3	RES_060	979720.30	3742738.81	21.59	0.00	21.59	1/17/2023, 8
1-HR	1ST	44.74031	ug/m^3	RES_061	979720.30	3742758.81	21.48	0.00	21.48	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	43.11173	ug/m^3	RES_062	979720.30	3742778.81	21.36	0.00	21.36	1/17/2023, 8
1-HR	1ST	33.82710	ug/m^3	RES_063	979740.30	3742478.81	20.28	0.00	20.28	12/11/2020, 8
1-HR	1ST	31.37663	ug/m^3	RES_064	979740.30	3742498.81	20.42	0.00	20.42	12/7/2022, 8
1-HR	1ST	35.46827	ug/m^3	RES_065	979740.30	3742518.81	20.52	0.00	20.52	12/7/2022, 8
1-HR	1ST	38.38420	ug/m^3	RES_066	979740.30	3742538.81	20.61	0.00	20.61	12/7/2022, 8
1-HR	1ST	42.66895	ug/m^3	RES_067	979740.30	3742558.81	20.68	0.00	20.68	1/17/2023, 8
1-HR	1ST	46.49489	ug/m^3	RES_068	979740.30	3742578.81	20.70	0.00	20.70	1/17/2023, 8
1-HR	1ST	49.37684	ug/m^3	RES_069	979740.30	3742598.81	20.74	0.00	20.74	1/17/2023, 8
1-HR	1ST	51.24747	ug/m^3	RES_070	979740.30	3742618.81	20.80	0.00	20.80	1/17/2023, 8
1-HR	1ST	52.15599	ug/m^3	RES_071	979740.30	3742638.81	21.00	0.00	21.00	1/17/2023, 8
1-HR	1ST	52.23992	ug/m^3	RES_072	979740.30	3742658.81	21.11	0.00	21.11	1/17/2023, 8
1-HR	1ST	51.64774	ug/m^3	RES_073	979740.30	3742678.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	50.52288	ug/m^3	RES_074	979740.30	3742698.81	21.19	0.00	21.19	1/17/2023, 8
1-HR	1ST	48.83237	ug/m^3	RES_075	979740.30	3742718.81	21.35	0.00	21.35	1/17/2023, 8
1-HR	1ST	46.80950	ug/m^3	RES_076	979740.30	3742738.81	21.67	0.00	21.67	1/17/2023, 8
1-HR	1ST	44.88159	ug/m^3	RES_077	979740.30	3742758.81	21.55	0.00	21.55	1/17/2023, 8
1-HR	1ST	42.92857	ug/m^3	RES_078	979740.30	3742778.81	21.39	0.00	21.39	1/17/2023, 8
1-HR	1ST	35.64716	ug/m^3	RES_079	979760.30	3742478.81	20.37	0.00	20.37	12/11/2020, 8
1-HR	1ST	35.78271	ug/m^3	RES_080	979760.30	3742498.81	20.44	0.00	20.44	12/7/2022, 8
1-HR	1ST	40.09362	ug/m^3	RES_081	979760.30	3742518.81	20.54	0.00	20.54	12/7/2022, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	44.03174	ug/m^3	RES_082	979760.30	3742538.81	20.64	0.00	20.64	1/17/2023, 8
1-HR	1ST	48.71091	ug/m^3	RES_083	979760.30	3742558.81	20.74	0.00	20.74	1/17/2023, 8
1-HR	1ST	52.21044	ug/m^3	RES_084	979760.30	3742578.81	20.80	0.00	20.80	1/17/2023, 8
1-HR	1ST	54.43150	ug/m^3	RES_085	979760.30	3742598.81	20.87	0.00	20.87	1/17/2023, 8
1-HR	1ST	55.46704	ug/m^3	RES_086	979760.30	3742618.81	20.96	0.00	20.96	1/17/2023, 8
1-HR	1ST	55.49469	ug/m^3	RES_087	979760.30	3742638.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	54.73641	ug/m^3	RES_088	979760.30	3742658.81	21.25	0.00	21.25	1/17/2023, 8
1-HR	1ST	53.38868	ug/m^3	RES_089	979760.30	3742678.81	21.25	0.00	21.25	1/17/2023, 8
1-HR	1ST	51.44071	ug/m^3	RES_090	979760.30	3742698.81	21.33	0.00	21.33	1/17/2023, 8
1-HR	1ST	49.21316	ug/m^3	RES_091	979760.30	3742718.81	21.49	0.00	21.49	1/17/2023, 8
1-HR	1ST	47.00321	ug/m^3	RES_092	979760.30	3742738.81	21.72	0.00	21.72	1/17/2023, 8
1-HR	1ST	44.62169	ug/m^3	RES_093	979760.30	3742758.81	21.61	0.00	21.61	1/17/2023, 8
1-HR	1ST	42.35044	ug/m^3	RES_094	979760.30	3742778.81	21.46	0.00	21.46	1/17/2023, 8
1-HR	1ST	37.62434	ug/m^3	RES_095	979780.30	3742478.81	20.44	0.00	20.44	12/11/2020, 8
1-HR	1ST	41.37948	ug/m^3	RES_096	979780.30	3742498.81	20.50	0.00	20.50	12/7/2022, 8
1-HR	1ST	45.47234	ug/m^3	RES_097	979780.30	3742518.81	20.56	0.00	20.56	12/7/2022, 8
1-HR	1ST	51.15023	ug/m^3	RES_098	979780.30	3742538.81	20.66	0.00	20.66	1/17/2023, 8
1-HR	1ST	55.50437	ug/m^3	RES_099	979780.30	3742558.81	20.77	0.00	20.77	1/17/2023, 8
1-HR	1ST	58.18103	ug/m^3	RES_100	979780.30	3742578.81	20.84	0.00	20.84	1/17/2023, 8
1-HR	1ST	59.33929	ug/m^3	RES_101	979780.30	3742598.81	20.96	0.00	20.96	1/17/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	59.26629	ug/m^3	RES_102	979780.30	3742618.81	21.13	0.00	21.13	1/17/2023, 8
1-HR	1ST	58.09497	ug/m^3	RES_103	979780.30	3742638.81	21.32	0.00	21.32	1/17/2023, 8
1-HR	1ST	56.43272	ug/m^3	RES_104	979780.30	3742658.81	21.40	0.00	21.40	1/17/2023, 8
1-HR	1ST	54.33649	ug/m^3	RES_105	979780.30	3742678.81	21.35	0.00	21.35	1/17/2023, 8
1-HR	1ST	51.88897	ug/m^3	RES_106	979780.30	3742698.81	21.44	0.00	21.44	1/17/2023, 8
1-HR	1ST	49.22861	ug/m^3	RES_107	979780.30	3742718.81	21.57	0.00	21.57	1/17/2023, 8
1-HR	1ST	46.54047	ug/m^3	RES_108	979780.30	3742738.81	21.71	0.00	21.71	1/17/2023, 8
1-HR	1ST	43.98535	ug/m^3	RES_109	979780.30	3742758.81	21.60	0.00	21.60	1/17/2023, 8
1-HR	1ST	41.41077	ug/m^3	RES_110	979780.30	3742778.81	21.48	0.00	21.48	1/17/2023, 8
1-HR	1ST	41.65289	ug/m^3	RES_111	979800.30	3742478.81	20.53	0.00	20.53	12/7/2022, 8
1-HR	1ST	48.41495	ug/m^3	RES_112	979800.30	3742498.81	20.59	0.00	20.59	12/7/2022, 8
1-HR	1ST	53.80320	ug/m^3	RES_113	979800.30	3742518.81	20.62	0.00	20.62	1/17/2023, 8
1-HR	1ST	59.41607	ug/m^3	RES_114	979800.30	3742538.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	62.69122	ug/m^3	RES_115	979800.30	3742558.81	20.91	0.00	20.91	1/17/2023, 8
1-HR	1ST	63.96127	ug/m^3	RES_116	979800.30	3742578.81	21.00	0.00	21.00	1/17/2023, 8
1-HR	1ST	63.69815	ug/m^3	RES_117	979800.30	3742598.81	21.10	0.00	21.10	1/17/2023, 8
1-HR	1ST	62.34932	ug/m^3	RES_118	979800.30	3742618.81	21.22	0.00	21.22	1/17/2023, 8
1-HR	1ST	60.02716	ug/m^3	RES_119	979800.30	3742638.81	21.42	0.00	21.42	1/17/2023, 8
1-HR	1ST	57.39300	ug/m^3	RES_120	979800.30	3742658.81	21.51	0.00	21.51	1/17/2023, 8
1-HR	1ST	54.72839	ug/m^3	RES_121	979800.30	3742678.81	21.41	0.00	21.41	1/17/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	51.74903	ug/m^3	RES_122	979800.30	3742698.81	21.47	0.00	21.47	1/17/2023, 8
1-HR	1ST	48.75471	ug/m^3	RES_123	979800.30	3742718.81	21.56	0.00	21.56	1/17/2023, 8
1-HR	1ST	45.83705	ug/m^3	RES_124	979800.30	3742738.81	21.62	0.00	21.62	1/17/2023, 8
1-HR	1ST	43.01259	ug/m^3	RES_125	979800.30	3742758.81	21.50	0.00	21.50	1/17/2023, 8
1-HR	1ST	42.32141	ug/m^3	RES_126	979800.30	3742778.81	21.39	0.00	21.39	12/13/2023, 8
1-HR	1ST	50.70428	ug/m^3	RES_127	979820.30	3742478.81	20.72	0.00	20.72	12/7/2022, 8
1-HR	1ST	56.90340	ug/m^3	RES_128	979820.30	3742498.81	20.79	0.00	20.79	12/7/2022, 8
1-HR	1ST	64.19177	ug/m^3	RES_129	979820.30	3742518.81	20.81	0.00	20.81	1/17/2023, 8
1-HR	1ST	68.31990	ug/m^3	RES_130	979820.30	3742538.81	20.90	0.00	20.90	1/17/2023, 8
1-HR	1ST	69.62527	ug/m^3	RES_131	979820.30	3742558.81	21.04	0.00	21.04	1/17/2023, 8
1-HR	1ST	68.99315	ug/m^3	RES_132	979820.30	3742578.81	21.08	0.00	21.08	1/17/2023, 8
1-HR	1ST	67.11002	ug/m^3	RES_133	979820.30	3742598.81	21.14	0.00	21.14	1/17/2023, 8
1-HR	1ST	64.46323	ug/m^3	RES_134	979820.30	3742618.81	21.24	0.00	21.24	1/17/2023, 8
1-HR	1ST	61.06696	ug/m^3	RES_135	979820.30	3742638.81	21.47	0.00	21.47	1/17/2023, 8
1-HR	1ST	57.73109	ug/m^3	RES_136	979820.30	3742658.81	21.57	0.00	21.57	1/17/2023, 8
1-HR	1ST	54.55953	ug/m^3	RES_137	979820.30	3742678.81	21.38	0.00	21.38	1/17/2023, 8
1-HR	1ST	51.22631	ug/m^3	RES_138	979820.30	3742698.81	21.37	0.00	21.37	1/17/2023, 8
1-HR	1ST	47.93261	ug/m^3	RES_139	979820.30	3742718.81	21.41	0.00	21.41	1/17/2023, 8
1-HR	1ST	45.47902	ug/m^3	RES_140	979820.30	3742738.81	21.44	0.00	21.44	12/13/2023, 8
1-HR	1ST	44.60163	ug/m^3	RES_141	979820.30	3742758.81	21.28	0.00	21.28	12/13/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	43.87593	ug/m^3	RES_142	979820.30	3742778.81	21.08	0.00	21.08	12/13/2023, 8
1-HR	1ST	63.10662	ug/m^3	RES_143	979840.30	3742478.81	20.99	0.00	20.99	12/7/2022, 8
1-HR	1ST	70.22384	ug/m^3	RES_144	979840.30	3742498.81	21.12	0.00	21.12	1/17/2023, 8
1-HR	1ST	75.61894	ug/m^3	RES_145	979840.30	3742518.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	76.77141	ug/m^3	RES_146	979840.30	3742538.81	21.18	0.00	21.18	1/17/2023, 8
1-HR	1ST	75.41653	ug/m^3	RES_147	979840.30	3742558.81	21.19	0.00	21.19	1/17/2023, 8
1-HR	1ST	72.70546	ug/m^3	RES_148	979840.30	3742578.81	21.11	0.00	21.11	1/17/2023, 8
1-HR	1ST	69.27257	ug/m^3	RES_149	979840.30	3742598.81	21.08	0.00	21.08	1/17/2023, 8
1-HR	1ST	65.48796	ug/m^3	RES_150	979840.30	3742618.81	21.14	0.00	21.14	1/17/2023, 8
1-HR	1ST	61.51377	ug/m^3	RES_151	979840.30	3742638.81	21.27	0.00	21.27	1/17/2023, 8
1-HR	1ST	57.51211	ug/m^3	RES_152	979840.30	3742658.81	21.32	0.00	21.32	1/17/2023, 8
1-HR	1ST	53.90913	ug/m^3	RES_153	979840.30	3742678.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	50.26647	ug/m^3	RES_154	979840.30	3742698.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	47.93572	ug/m^3	RES_155	979840.30	3742718.81	21.20	0.00	21.20	12/13/2023, 8
1-HR	1ST	47.12928	ug/m^3	RES_156	979840.30	3742738.81	21.19	0.00	21.19	12/13/2023, 8
1-HR	1ST	46.26917	ug/m^3	RES_157	979840.30	3742758.81	21.07	0.00	21.07	12/13/2023, 8
1-HR	1ST	45.36481	ug/m^3	RES_158	979840.30	3742778.81	20.91	0.00	20.91	12/13/2023, 8
1-HR	1ST	78.52812	ug/m^3	RES_159	979860.30	3742478.81	21.09	0.00	21.09	12/7/2022, 8
1-HR	1ST	85.67117	ug/m^3	RES_160	979860.30	3742498.81	21.28	0.00	21.28	1/17/2023, 8
1-HR	1ST	85.82436	ug/m^3	RES_161	979860.30	3742518.81	21.44	0.00	21.44	1/17/2023, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	82.90224	ug/m^3	RES_162	979860.30	3742538.81	21.51	0.00	21.51	1/17/2023, 8
1-HR	1ST	78.98507	ug/m^3	RES_163	979860.30	3742558.81	21.42	0.00	21.42	1/17/2023, 8
1-HR	1ST	74.75617	ug/m^3	RES_164	979860.30	3742578.81	21.18	0.00	21.18	1/17/2023, 8
1-HR	1ST	70.10126	ug/m^3	RES_165	979860.30	3742598.81	20.98	0.00	20.98	1/17/2023, 8
1-HR	1ST	65.45945	ug/m^3	RES_166	979860.30	3742618.81	20.95	0.00	20.95	1/17/2023, 8
1-HR	1ST	60.95232	ug/m^3	RES_167	979860.30	3742638.81	20.95	0.00	20.95	1/17/2023, 8
1-HR	1ST	56.64320	ug/m^3	RES_168	979860.30	3742658.81	20.95	0.00	20.95	1/17/2023, 8
1-HR	1ST	52.56953	ug/m^3	RES_169	979860.30	3742678.81	20.92	0.00	20.92	1/17/2023, 8
1-HR	1ST	51.01222	ug/m^3	RES_170	979860.30	3742698.81	20.98	0.00	20.98	12/13/2023, 8
1-HR	1ST	49.88635	ug/m^3	RES_171	979860.30	3742718.81	21.06	0.00	21.06	12/13/2023, 8
1-HR	1ST	48.74738	ug/m^3	RES_172	979860.30	3742738.81	21.00	0.00	21.00	12/13/2023, 8
1-HR	1ST	47.59615	ug/m^3	RES_173	979860.30	3742758.81	20.91	0.00	20.91	12/13/2023, 8
1-HR	1ST	46.43831	ug/m^3	RES_174	979860.30	3742778.81	20.80	0.00	20.80	12/13/2023, 8
1-HR	1ST	95.07156	ug/m^3	RES_175	979880.30	3742458.81	20.87	0.00	20.87	12/7/2022, 8
1-HR	1ST	100.74754	ug/m^3	RES_176	979880.30	3742478.81	21.14	0.00	21.14	1/17/2023, 8
1-HR	1ST	98.52268	ug/m^3	RES_177	979880.30	3742498.81	21.35	0.00	21.35	1/17/2023, 8
1-HR	1ST	92.69184	ug/m^3	RES_178	979880.30	3742518.81	21.52	0.00	21.52	1/17/2023, 8
1-HR	1ST	86.55071	ug/m^3	RES_179	979880.30	3742538.81	21.61	0.00	21.61	1/17/2023, 8
1-HR	1ST	80.56320	ug/m^3	RES_180	979880.30	3742558.81	21.56	0.00	21.56	1/17/2023, 8
1-HR	1ST	75.16229	ug/m^3	RES_181	979880.30	3742578.81	21.27	0.00	21.27	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	69.73418	ug/m^3	RES_182	979880.30	3742598.81	21.04	0.00	21.04	1/17/2023, 8
1-HR	1ST	64.49050	ug/m^3	RES_183	979880.30	3742618.81	21.14	0.00	21.14	1/17/2023, 8
1-HR	1ST	59.58259	ug/m^3	RES_184	979880.30	3742638.81	21.17	0.00	21.17	1/17/2023, 8
1-HR	1ST	55.68805	ug/m^3	RES_185	979880.30	3742658.81	21.16	0.00	21.16	12/13/2023, 8
1-HR	1ST	54.19957	ug/m^3	RES_186	979880.30	3742678.81	21.04	0.00	21.04	12/13/2023, 8
1-HR	1ST	52.72915	ug/m^3	RES_187	979880.30	3742698.81	21.05	0.00	21.05	12/13/2023, 8
1-HR	1ST	51.28135	ug/m^3	RES_188	979880.30	3742718.81	21.11	0.00	21.11	12/13/2023, 8
1-HR	1ST	49.87066	ug/m^3	RES_189	979880.30	3742738.81	20.96	0.00	20.96	12/13/2023, 8
1-HR	1ST	48.48290	ug/m^3	RES_190	979880.30	3742758.81	20.81	0.00	20.81	12/13/2023, 8
1-HR	1ST	99.56117	ug/m^3	RES_191	979900.30	3742458.81	20.86	0.00	20.86	12/7/2022, 8
1-HR	1ST	114.97845	ug/m^3	RES_192	979900.30	3742478.81	21.10	0.00	21.10	1/17/2023, 8
1-HR	1ST	104.80450	ug/m^3	RES_193	979900.30	3742498.81	21.29	0.00	21.29	1/17/2023, 8
1-HR	1ST	95.64542	ug/m^3	RES_194	979900.30	3742518.81	21.47	0.00	21.47	1/17/2023, 8
1-HR	1ST	87.74330	ug/m^3	RES_195	979900.30	3742538.81	21.58	0.00	21.58	1/17/2023, 8
1-HR	1ST	80.63758	ug/m^3	RES_196	979900.30	3742558.81	21.58	0.00	21.58	1/17/2023, 8
1-HR	1ST	74.30994	ug/m^3	RES_197	979900.30	3742578.81	21.34	0.00	21.34	1/17/2023, 8
1-HR	1ST	68.45118	ug/m^3	RES_198	979900.30	3742598.81	21.13	0.00	21.13	1/17/2023, 8
1-HR	1ST	62.82478	ug/m^3	RES_199	979900.30	3742618.81	21.26	0.00	21.26	1/17/2023, 8
1-HR	1ST	59.77927	ug/m^3	RES_200	979900.30	3742638.81	21.32	0.00	21.32	12/13/2023, 8
1-HR	1ST	57.80284	ug/m^3	RES_201	979900.30	3742658.81	21.32	0.00	21.32	12/13/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	55.63471	ug/m^3	RES_202	979900.30	3742678.81	21.20	0.00	21.20	12/13/2023, 8
1-HR	1ST	53.86602	ug/m^3	RES_203	979900.30	3742698.81	21.23	0.00	21.23	12/13/2023, 8
1-HR	1ST	52.37893	ug/m^3	RES_204	979900.30	3742718.81	21.34	0.00	21.34	12/13/2023, 8
1-HR	1ST	50.53386	ug/m^3	RES_205	979900.30	3742738.81	21.12	0.00	21.12	12/13/2023, 8
1-HR	1ST	48.96461	ug/m^3	RES_206	979900.30	3742758.81	20.80	0.00	20.80	12/13/2023, 8
1-HR	1ST	103.82735	ug/m^3	RES_207	979920.30	3742458.81	20.79	0.00	20.79	1/17/2023, 8
1-HR	1ST	118.61970	ug/m^3	RES_208	979920.30	3742478.81	20.98	0.00	20.98	1/17/2023, 8
1-HR	1ST	106.86587	ug/m^3	RES_209	979920.30	3742498.81	21.17	0.00	21.17	1/17/2023, 8
1-HR	1ST	96.55533	ug/m^3	RES_210	979920.30	3742518.81	21.36	0.00	21.36	1/17/2023, 8
1-HR	1ST	87.51178	ug/m^3	RES_211	979920.30	3742538.81	21.52	0.00	21.52	1/17/2023, 8
1-HR	1ST	79.62894	ug/m^3	RES_212	979920.30	3742558.81	21.53	0.00	21.53	1/17/2023, 8
1-HR	1ST	72.71351	ug/m^3	RES_213	979920.30	3742578.81	21.34	0.00	21.34	1/17/2023, 8
1-HR	1ST	66.46023	ug/m^3	RES_214	979920.30	3742598.81	21.16	0.00	21.16	1/17/2023, 8
1-HR	1ST	63.62185	ug/m^3	RES_215	979920.30	3742618.81	21.36	0.00	21.36	12/13/2023, 8
1-HR	1ST	61.22554	ug/m^3	RES_216	979920.30	3742638.81	21.43	0.00	21.43	12/13/2023, 8
1-HR	1ST	58.92915	ug/m^3	RES_217	979920.30	3742658.81	21.41	0.00	21.41	12/13/2023, 8
1-HR	1ST	56.73807	ug/m^3	RES_218	979920.30	3742678.81	21.33	0.00	21.33	12/13/2023, 8
1-HR	1ST	54.69934	ug/m^3	RES_219	979920.30	3742698.81	21.37	0.00	21.37	12/13/2023, 8
1-HR	1ST	52.85806	ug/m^3	RES_220	979920.30	3742718.81	21.50	0.00	21.50	12/13/2023, 8
1-HR	1ST	50.80443	ug/m^3	RES_221	979920.30	3742738.81	21.21	0.00	21.21	12/13/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	49.08431	ug/m^3	RES_222	979920.30	3742758.81	20.94	0.00	20.94	12/13/2023, 8
1-HR	1ST	134.11850	ug/m^3	RES_223	979940.30	3742458.81	20.69	0.00	20.69	1/17/2023, 8
1-HR	1ST	120.88960	ug/m^3	RES_224	979940.30	3742478.81	20.87	0.00	20.87	1/17/2023, 8
1-HR	1ST	107.62905	ug/m^3	RES_225	979940.30	3742498.81	21.09	0.00	21.09	1/17/2023, 8
1-HR	1ST	96.10074	ug/m^3	RES_226	979940.30	3742518.81	21.34	0.00	21.34	1/17/2023, 8
1-HR	1ST	86.16530	ug/m^3	RES_227	979940.30	3742538.81	21.51	0.00	21.51	1/17/2023, 8
1-HR	1ST	77.80108	ug/m^3	RES_228	979940.30	3742558.81	21.42	0.00	21.42	1/17/2023, 8
1-HR	1ST	70.56896	ug/m^3	RES_229	979940.30	3742578.81	21.26	0.00	21.26	12/13/2023, 8
1-HR	1ST	67.34409	ug/m^3	RES_230	979940.30	3742598.81	21.12	0.00	21.12	12/13/2023, 8
1-HR	1ST	64.67794	ug/m^3	RES_231	979940.30	3742618.81	21.38	0.00	21.38	12/13/2023, 8
1-HR	1ST	62.11165	ug/m^3	RES_232	979940.30	3742638.81	21.47	0.00	21.47	12/13/2023, 8
1-HR	1ST	59.44669	ug/m^3	RES_233	979940.30	3742658.81	21.42	0.00	21.42	12/13/2023, 8
1-HR	1ST	57.06688	ug/m^3	RES_234	979940.30	3742678.81	21.39	0.00	21.39	12/13/2023, 8
1-HR	1ST	54.84968	ug/m^3	RES_235	979940.30	3742698.81	21.43	0.00	21.43	12/13/2023, 8
1-HR	1ST	53.12027	ug/m^3	RES_236	979940.30	3742718.81	21.54	0.00	21.54	1/28/2020, 8
1-HR	1ST	50.95331	ug/m^3	RES_237	979940.30	3742738.81	21.21	0.00	21.21	1/28/2020, 8
1-HR	1ST	49.52174	ug/m^3	RES_238	979940.30	3742758.81	20.96	0.00	20.96	1/28/2020, 8
1-HR	1ST	138.55114	ug/m^3	RES_239	979960.30	3742458.81	20.56	0.00	20.56	1/17/2023, 8
1-HR	1ST	121.76235	ug/m^3	RES_240	979960.30	3742478.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	106.91653	ug/m^3	RES_241	979960.30	3742498.81	20.96	0.00	20.96	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	94.52146	ug/m^3	RES_242	979960.30	3742518.81	21.20	0.00	21.20	1/17/2023, 8
1-HR	1ST	83.86121	ug/m^3	RES_243	979960.30	3742538.81	21.38	0.00	21.38	1/17/2023, 8
1-HR	1ST	75.72680	ug/m^3	RES_244	979960.30	3742558.81	21.25	0.00	21.25	12/13/2023, 8
1-HR	1ST	71.74147	ug/m^3	RES_245	979960.30	3742578.81	21.11	0.00	21.11	12/13/2023, 8
1-HR	1ST	68.20676	ug/m^3	RES_246	979960.30	3742598.81	21.00	0.00	21.00	12/13/2023, 8
1-HR	1ST	65.04628	ug/m^3	RES_247	979960.30	3742618.81	21.29	0.00	21.29	12/13/2023, 8
1-HR	1ST	62.22625	ug/m^3	RES_248	979960.30	3742638.81	21.40	0.00	21.40	12/13/2023, 8
1-HR	1ST	59.51266	ug/m^3	RES_249	979960.30	3742658.81	21.34	0.00	21.34	12/13/2023, 8
1-HR	1ST	56.98936	ug/m^3	RES_250	979960.30	3742678.81	21.35	0.00	21.35	12/13/2023, 8
1-HR	1ST	55.06734	ug/m^3	RES_251	979960.30	3742698.81	21.38	0.00	21.38	1/28/2020, 8
1-HR	1ST	53.34765	ug/m^3	RES_252	979960.30	3742718.81	21.45	0.00	21.45	1/28/2020, 8
1-HR	1ST	51.35517	ug/m^3	RES_253	979960.30	3742738.81	21.12	0.00	21.12	1/28/2020, 8
1-HR	1ST	49.81040	ug/m^3	RES_254	979960.30	3742758.81	20.84	0.00	20.84	1/28/2020, 8
1-HR	1ST	140.24523	ug/m^3	RES_255	979980.30	3742458.81	20.41	0.00	20.41	1/17/2023, 8
1-HR	1ST	120.59096	ug/m^3	RES_256	979980.30	3742478.81	20.57	0.00	20.57	1/17/2023, 8
1-HR	1ST	104.40521	ug/m^3	RES_257	979980.30	3742498.81	20.78	0.00	20.78	1/17/2023, 8
1-HR	1ST	91.27996	ug/m^3	RES_258	979980.30	3742518.81	20.98	0.00	20.98	1/17/2023, 8
1-HR	1ST	81.61948	ug/m^3	RES_259	979980.30	3742538.81	21.14	0.00	21.14	12/13/2023, 8
1-HR	1ST	76.63339	ug/m^3	RES_260	979980.30	3742558.81	21.05	0.00	21.05	12/13/2023, 8
1-HR	1ST	72.32661	ug/m^3	RES_261	979980.30	3742578.81	20.93	0.00	20.93	12/13/2023, 8

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Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	68.52655	ug/m^3	RES_262	979980.30	3742598.81	20.80	0.00	20.80	12/13/2023, 8
1-HR	1ST	65.07583	ug/m^3	RES_263	979980.30	3742618.81	21.07	0.00	21.07	12/13/2023, 8
1-HR	1ST	61.97352	ug/m^3	RES_264	979980.30	3742638.81	21.17	0.00	21.17	12/13/2023, 8
1-HR	1ST	59.18934	ug/m^3	RES_265	979980.30	3742658.81	21.11	0.00	21.11	1/28/2020, 8
1-HR	1ST	57.04709	ug/m^3	RES_266	979980.30	3742678.81	21.15	0.00	21.15	1/28/2020, 8
1-HR	1ST	55.05472	ug/m^3	RES_267	979980.30	3742698.81	21.21	0.00	21.21	1/28/2020, 8
1-HR	1ST	53.27120	ug/m^3	RES_268	979980.30	3742718.81	21.27	0.00	21.27	1/28/2020, 8
1-HR	1ST	51.47032	ug/m^3	RES_269	979980.30	3742738.81	20.91	0.00	20.91	1/28/2020, 8
1-HR	1ST	49.83587	ug/m^3	RES_270	979980.30	3742758.81	20.58	0.00	20.58	1/28/2020, 8
1-HR	1ST	138.77937	ug/m^3	RES_271	980000.30	3742458.81	20.18	0.00	20.18	1/17/2023, 8
1-HR	1ST	116.88297	ug/m^3	RES_272	980000.30	3742478.81	20.34	0.00	20.34	1/17/2023, 8
1-HR	1ST	99.98853	ug/m^3	RES_273	980000.30	3742498.81	20.51	0.00	20.51	1/17/2023, 8
1-HR	1ST	88.47865	ug/m^3	RES_274	980000.30	3742518.81	20.69	0.00	20.69	12/13/2023, 8
1-HR	1ST	82.12909	ug/m^3	RES_275	980000.30	3742538.81	20.86	0.00	20.86	12/13/2023, 8
1-HR	1ST	76.83944	ug/m^3	RES_276	980000.30	3742558.81	20.80	0.00	20.80	12/13/2023, 8
1-HR	1ST	72.28555	ug/m^3	RES_277	980000.30	3742578.81	20.71	0.00	20.71	12/13/2023, 8
1-HR	1ST	68.28755	ug/m^3	RES_278	980000.30	3742598.81	20.61	0.00	20.61	12/13/2023, 8
1-HR	1ST	64.69063	ug/m^3	RES_279	980000.30	3742618.81	20.84	0.00	20.84	12/13/2023, 8
1-HR	1ST	61.87929	ug/m^3	RES_280	980000.30	3742638.81	20.89	0.00	20.89	1/28/2020, 8
1-HR	1ST	59.44174	ug/m^3	RES_281	980000.30	3742658.81	20.70	0.00	20.70	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	57.17881	ug/m^3	RES_282	980000.30	3742678.81	20.78	0.00	20.78	1/28/2020, 8
1-HR	1ST	55.08135	ug/m^3	RES_283	980000.30	3742698.81	20.88	0.00	20.88	1/28/2020, 8
1-HR	1ST	53.12804	ug/m^3	RES_284	980000.30	3742718.81	20.97	0.00	20.97	1/28/2020, 8
1-HR	1ST	51.31937	ug/m^3	RES_285	980000.30	3742738.81	20.73	0.00	20.73	1/28/2020, 8
1-HR	1ST	49.61210	ug/m^3	RES_286	980000.30	3742758.81	20.49	0.00	20.49	1/28/2020, 8
1-HR	1ST	88.34146	ug/m^3	RES_287	980020.30	3742518.81	20.33	0.00	20.33	12/13/2023, 8
1-HR	1ST	81.78420	ug/m^3	RES_288	980020.30	3742538.81	20.52	0.00	20.52	12/13/2023, 8
1-HR	1ST	76.31871	ug/m^3	RES_289	980020.30	3742558.81	20.48	0.00	20.48	12/13/2023, 8
1-HR	1ST	71.62582	ug/m^3	RES_290	980020.30	3742578.81	20.43	0.00	20.43	12/13/2023, 8
1-HR	1ST	67.79693	ug/m^3	RES_291	980020.30	3742598.81	20.40	0.00	20.40	1/28/2020, 8
1-HR	1ST	64.65573	ug/m^3	RES_292	980020.30	3742618.81	20.58	0.00	20.58	1/28/2020, 8
1-HR	1ST	61.84848	ug/m^3	RES_293	980020.30	3742638.81	20.61	0.00	20.61	1/28/2020, 8
1-HR	1ST	59.31947	ug/m^3	RES_294	980020.30	3742658.81	20.38	0.00	20.38	1/28/2020, 8
1-HR	1ST	56.97707	ug/m^3	RES_295	980020.30	3742678.81	20.49	0.00	20.49	1/28/2020, 8
1-HR	1ST	54.80932	ug/m^3	RES_296	980020.30	3742698.81	20.65	0.00	20.65	1/28/2020, 8
1-HR	1ST	52.79821	ug/m^3	RES_297	980020.30	3742718.81	20.75	0.00	20.75	1/28/2020, 8
1-HR	1ST	50.93188	ug/m^3	RES_298	980020.30	3742738.81	20.61	0.00	20.61	1/28/2020, 8
1-HR	1ST	49.17468	ug/m^3	RES_299	980020.30	3742758.81	20.47	0.00	20.47	1/28/2020, 8
1-HR	1ST	61.44173	ug/m^3	RES_300	980040.30	3742638.81	20.36	0.00	20.36	1/28/2020, 8
1-HR	1ST	58.85968	ug/m^3	RES_301	980040.30	3742658.81	20.23	0.00	20.23	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	56.48091	ug/m^3	RES_302	980040.30	3742678.81	20.34	0.00	20.34	1/28/2020, 8
1-HR	1ST	54.28356	ug/m^3	RES_303	980040.30	3742698.81	20.47	0.00	20.47	1/28/2020, 8
1-HR	1ST	52.24583	ug/m^3	RES_304	980040.30	3742718.81	20.54	0.00	20.54	1/28/2020, 8
1-HR	1ST	50.34827	ug/m^3	RES_305	980040.30	3742738.81	20.47	0.00	20.47	1/28/2020, 8
1-HR	1ST	149.53106	ug/m^3	RES_306	980047.32	3742438.94	19.50	0.00	19.50	1/17/2023, 8
1-HR	1ST	119.88229	ug/m^3	RES_307	980047.32	3742458.94	19.54	0.00	19.54	1/17/2023, 8
1-HR	1ST	104.65999	ug/m^3	RES_308	980047.32	3742478.94	19.63	0.00	19.63	12/13/2023, 8
1-HR	1ST	94.52785	ug/m^3	RES_309	980047.32	3742498.94	19.73	0.00	19.73	12/13/2023, 8
1-HR	1ST	86.52594	ug/m^3	RES_310	980047.32	3742518.94	19.83	0.00	19.83	12/13/2023, 8
1-HR	1ST	79.99635	ug/m^3	RES_311	980047.32	3742538.94	19.93	0.00	19.93	12/13/2023, 8
1-HR	1ST	157.36061	ug/m^3	RES_312	980067.32	3742418.94	19.54	0.00	19.54	1/17/2023, 8
1-HR	1ST	134.95707	ug/m^3	RES_313	980067.32	3742438.94	19.61	0.00	19.61	1/17/2023, 8
1-HR	1ST	114.40877	ug/m^3	RES_314	980067.32	3742458.94	19.66	0.00	19.66	12/13/2023, 8
1-HR	1ST	101.62791	ug/m^3	RES_315	980067.32	3742478.94	19.67	0.00	19.67	12/13/2023, 8
1-HR	1ST	91.88669	ug/m^3	RES_316	980067.32	3742498.94	19.74	0.00	19.74	12/13/2023, 8
1-HR	1ST	84.36680	ug/m^3	RES_317	980067.32	3742518.94	19.80	0.00	19.80	1/28/2020, 8
1-HR	1ST	78.75310	ug/m^3	RES_318	980067.32	3742538.94	19.83	0.00	19.83	1/28/2020, 8
1-HR	1ST	74.02969	ug/m^3	RES_319	980067.32	3742558.94	19.82	0.00	19.82	1/28/2020, 8
1-HR	1ST	69.96567	ug/m^3	RES_320	980067.32	3742578.94	19.83	0.00	19.83	1/28/2020, 8
1-HR	1ST	154.20235	ug/m^3	RES_321	980087.32	3742418.94	19.57	0.00	19.57	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	125.35810	ug/m^3	RES_322	980087.32	3742438.94	19.76	0.00	19.76	12/13/2023, 8
1-HR	1ST	109.21628	ug/m^3	RES_323	980087.32	3742458.94	19.86	0.00	19.86	12/13/2023, 8
1-HR	1ST	97.44758	ug/m^3	RES_324	980087.32	3742478.94	19.84	0.00	19.84	12/13/2023, 8
1-HR	1ST	89.02121	ug/m^3	RES_325	980087.32	3742498.94	19.90	0.00	19.90	1/28/2020, 8
1-HR	1ST	82.52343	ug/m^3	RES_326	980087.32	3742518.94	19.93	0.00	19.93	1/28/2020, 8
1-HR	1ST	77.17130	ug/m^3	RES_327	980087.32	3742538.94	19.90	0.00	19.90	1/28/2020, 8
1-HR	1ST	72.63201	ug/m^3	RES_328	980087.32	3742558.94	19.87	0.00	19.87	1/28/2020, 8
1-HR	1ST	68.70003	ug/m^3	RES_329	980087.32	3742578.94	19.87	0.00	19.87	1/28/2020, 8
1-HR	1ST	163.31132	ug/m^3	RES_330	980107.32	3742398.94	19.38	0.00	19.38	1/17/2023, 8
1-HR	1ST	136.97122	ug/m^3	RES_331	980107.32	3742418.94	19.62	0.00	19.62	12/13/2023, 8
1-HR	1ST	117.10253	ug/m^3	RES_332	980107.32	3742438.94	19.87	0.00	19.87	12/13/2023, 8
1-HR	1ST	103.06927	ug/m^3	RES_333	980107.32	3742458.94	20.01	0.00	20.01	1/28/2020, 8
1-HR	1ST	93.63429	ug/m^3	RES_334	980107.32	3742478.94	20.03	0.00	20.03	1/28/2020, 8
1-HR	1ST	86.24817	ug/m^3	RES_335	980107.32	3742498.94	20.07	0.00	20.07	1/28/2020, 8
1-HR	1ST	80.25415	ug/m^3	RES_336	980107.32	3742518.94	20.08	0.00	20.08	1/28/2020, 8
1-HR	1ST	75.24968	ug/m^3	RES_337	980107.32	3742538.94	20.05	0.00	20.05	1/28/2020, 8
1-HR	1ST	70.95658	ug/m^3	RES_338	980107.32	3742558.94	20.01	0.00	20.01	1/28/2020, 8
1-HR	1ST	67.20531	ug/m^3	RES_339	980107.32	3742578.94	19.98	0.00	19.98	1/28/2020, 8
1-HR	1ST	148.90294	ug/m^3	RES_340	980127.32	3742398.94	19.43	0.00	19.43	12/13/2023, 8
1-HR	1ST	124.99639	ug/m^3	RES_341	980127.32	3742418.94	19.68	0.00	19.68	12/13/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	108.91775	ug/m^3	RES_342	980127.32	3742438.94	19.89	0.00	19.89	1/28/2020, 8
1-HR	1ST	98.16214	ug/m^3	RES_343	980127.32	3742458.94	20.05	0.00	20.05	1/28/2020, 8
1-HR	1ST	89.90726	ug/m^3	RES_344	980127.32	3742478.94	20.16	0.00	20.16	1/28/2020, 8
1-HR	1ST	83.30574	ug/m^3	RES_345	980127.32	3742498.94	20.20	0.00	20.20	1/28/2020, 8
1-HR	1ST	77.83757	ug/m^3	RES_346	980127.32	3742518.94	20.21	0.00	20.21	1/28/2020, 8
1-HR	1ST	73.19400	ug/m^3	RES_347	980127.32	3742538.94	20.20	0.00	20.20	1/28/2020, 8
1-HR	1ST	69.15940	ug/m^3	RES_348	980127.32	3742558.94	20.17	0.00	20.17	1/28/2020, 8
1-HR	1ST	65.59660	ug/m^3	RES_349	980127.32	3742578.94	20.15	0.00	20.15	1/28/2020, 8
1-HR	1ST	62.41169	ug/m^3	RES_350	980127.32	3742598.94	20.14	0.00	20.14	1/28/2020, 8
1-HR	1ST	154.44513	ug/m^3	RES_351	980147.32	3742378.94	19.27	0.00	19.27	1/17/2023, 8
1-HR	1ST	132.96245	ug/m^3	RES_352	980147.32	3742398.94	19.54	0.00	19.54	12/13/2023, 8
1-HR	1ST	114.77758	ug/m^3	RES_353	980147.32	3742418.94	19.69	0.00	19.69	1/28/2020, 8
1-HR	1ST	102.76013	ug/m^3	RES_354	980147.32	3742438.94	19.83	0.00	19.83	1/28/2020, 8
1-HR	1ST	93.65155	ug/m^3	RES_355	980147.32	3742458.94	19.97	0.00	19.97	1/28/2020, 8
1-HR	1ST	86.41998	ug/m^3	RES_356	980147.32	3742478.94	20.13	0.00	20.13	1/28/2020, 8
1-HR	1ST	80.48288	ug/m^3	RES_357	980147.32	3742498.94	20.24	0.00	20.24	1/28/2020, 8
1-HR	1ST	75.46698	ug/m^3	RES_358	980147.32	3742518.94	20.31	0.00	20.31	1/28/2020, 8
1-HR	1ST	71.14832	ug/m^3	RES_359	980147.32	3742538.94	20.30	0.00	20.30	1/28/2020, 8
1-HR	1ST	67.34565	ug/m^3	RES_360	980147.32	3742558.94	20.31	0.00	20.31	1/28/2020, 8
1-HR	1ST	63.95804	ug/m^3	RES_361	980147.32	3742578.94	20.32	0.00	20.32	1/28/2020, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	60.90795	ug/m^3	RES_362	980147.32	3742598.94	20.34	0.00	20.34	1/28/2020, 8
1-HR	1ST	58.12905	ug/m^3	RES_363	980147.32	3742618.94	20.43	0.00	20.43	1/28/2020, 8
1-HR	1ST	141.31810	ug/m^3	RES_364	980167.32	3742378.94	19.31	0.00	19.31	12/13/2023, 8
1-HR	1ST	120.91056	ug/m^3	RES_365	980167.32	3742398.94	19.53	0.00	19.53	1/28/2020, 8
1-HR	1ST	107.54044	ug/m^3	RES_366	980167.32	3742418.94	19.73	0.00	19.73	1/28/2020, 8
1-HR	1ST	97.54048	ug/m^3	RES_367	980167.32	3742438.94	19.87	0.00	19.87	1/28/2020, 8
1-HR	1ST	89.68527	ug/m^3	RES_368	980167.32	3742458.94	20.01	0.00	20.01	1/28/2020, 8
1-HR	1ST	83.25812	ug/m^3	RES_369	980167.32	3742478.94	20.19	0.00	20.19	1/28/2020, 8
1-HR	1ST	77.86497	ug/m^3	RES_370	980167.32	3742498.94	20.29	0.00	20.29	1/28/2020, 8
1-HR	1ST	73.23502	ug/m^3	RES_371	980167.32	3742518.94	20.33	0.00	20.33	1/28/2020, 8
1-HR	1ST	69.17905	ug/m^3	RES_372	980167.32	3742538.94	20.36	0.00	20.36	1/28/2020, 8
1-HR	1ST	65.58384	ug/m^3	RES_373	980167.32	3742558.94	20.34	0.00	20.34	1/28/2020, 8
1-HR	1ST	62.35907	ug/m^3	RES_374	980167.32	3742578.94	20.29	0.00	20.29	1/28/2020, 8
1-HR	1ST	59.43376	ug/m^3	RES_375	980167.32	3742598.94	20.31	0.00	20.31	1/28/2020, 8
1-HR	1ST	56.75314	ug/m^3	RES_376	980167.32	3742618.94	20.43	0.00	20.43	1/28/2020, 8
1-HR	1ST	54.27939	ug/m^3	RES_377	980167.32	3742638.94	20.62	0.00	20.62	1/28/2020, 8
1-HR	1ST	51.98169	ug/m^3	RES_378	980167.32	3742658.94	20.80	0.00	20.80	1/28/2020, 8
1-HR	1ST	149.73348	ug/m^3	RES_379	980187.32	3742358.94	19.11	0.00	19.11	12/13/2023, 8
1-HR	1ST	127.64212	ug/m^3	RES_380	980187.32	3742378.94	19.26	0.00	19.26	1/28/2020, 8
1-HR	1ST	112.79697	ug/m^3	RES_381	980187.32	3742398.94	19.43	0.00	19.43	1/28/2020, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	101.77711	ug/m^3	RES_382	980187.32	3742418.94	19.67	0.00	19.67	1/28/2020, 8
1-HR	1ST	93.20781	ug/m^3	RES_383	980187.32	3742438.94	19.85	0.00	19.85	1/28/2020, 8
1-HR	1ST	86.26172	ug/m^3	RES_384	980187.32	3742458.94	20.02	0.00	20.02	1/28/2020, 8
1-HR	1ST	80.44872	ug/m^3	RES_385	980187.32	3742478.94	20.17	0.00	20.17	1/28/2020, 8
1-HR	1ST	75.48125	ug/m^3	RES_386	980187.32	3742498.94	20.22	0.00	20.22	1/28/2020, 8
1-HR	1ST	71.15382	ug/m^3	RES_387	980187.32	3742518.94	20.22	0.00	20.22	1/28/2020, 8
1-HR	1ST	67.32075	ug/m^3	RES_388	980187.32	3742538.94	20.25	0.00	20.25	1/28/2020, 8
1-HR	1ST	63.89284	ug/m^3	RES_389	980187.32	3742558.94	20.29	0.00	20.29	1/28/2020, 8
1-HR	1ST	60.79673	ug/m^3	RES_390	980187.32	3742578.94	20.36	0.00	20.36	1/28/2020, 8
1-HR	1ST	57.98210	ug/m^3	RES_391	980187.32	3742598.94	20.44	0.00	20.44	1/28/2020, 8
1-HR	1ST	55.39132	ug/m^3	RES_392	980187.32	3742618.94	20.61	0.00	20.61	1/28/2020, 8
1-HR	1ST	52.98509	ug/m^3	RES_393	980187.32	3742638.94	20.86	0.00	20.86	1/28/2020, 8
1-HR	1ST	51.23945	ug/m^3	RES_394	980187.32	3742658.94	20.93	0.00	20.93	12/29/2023, 8
1-HR	1ST	49.79199	ug/m^3	RES_395	980187.32	3742678.94	20.90	0.00	20.90	12/29/2023, 8
1-HR	1ST	160.96138	ug/m^3	RES_396	980207.32	3742338.94	18.87	0.00	18.87	12/13/2023, 8
1-HR	1ST	134.92271	ug/m^3	RES_397	980207.32	3742358.94	19.03	0.00	19.03	1/28/2020, 8
1-HR	1ST	118.53267	ug/m^3	RES_398	980207.32	3742378.94	19.15	0.00	19.15	1/28/2020, 8
1-HR	1ST	106.46257	ug/m^3	RES_399	980207.32	3742398.94	19.30	0.00	19.30	1/28/2020, 8
1-HR	1ST	97.11041	ug/m^3	RES_400	980207.32	3742418.94	19.53	0.00	19.53	1/28/2020, 8
1-HR	1ST	89.55845	ug/m^3	RES_401	980207.32	3742438.94	19.78	0.00	19.78	1/28/2020, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	83.27366	ug/m^3	RES_402	980207.32	3742458.94	20.00	0.00	20.00	1/28/2020, 8
1-HR	1ST	77.92903	ug/m^3	RES_403	980207.32	3742478.94	20.08	0.00	20.08	1/28/2020, 8
1-HR	1ST	73.29039	ug/m^3	RES_404	980207.32	3742498.94	20.10	0.00	20.10	1/28/2020, 8
1-HR	1ST	69.20497	ug/m^3	RES_405	980207.32	3742518.94	20.08	0.00	20.08	1/28/2020, 8
1-HR	1ST	65.56601	ug/m^3	RES_406	980207.32	3742538.94	20.10	0.00	20.10	1/28/2020, 8
1-HR	1ST	62.28627	ug/m^3	RES_407	980207.32	3742558.94	20.20	0.00	20.20	1/28/2020, 8
1-HR	1ST	59.31045	ug/m^3	RES_408	980207.32	3742578.94	20.37	0.00	20.37	1/28/2020, 8
1-HR	1ST	56.58924	ug/m^3	RES_409	980207.32	3742598.94	20.58	0.00	20.58	1/28/2020, 8
1-HR	1ST	54.54552	ug/m^3	RES_410	980207.32	3742618.94	20.79	0.00	20.79	12/29/2023, 8
1-HR	1ST	52.85777	ug/m^3	RES_411	980207.32	3742638.94	20.97	0.00	20.97	12/29/2023, 8
1-HR	1ST	51.30697	ug/m^3	RES_412	980207.32	3742658.94	20.92	0.00	20.92	12/29/2023, 8
1-HR	1ST	49.84657	ug/m^3	RES_413	980207.32	3742678.94	20.88	0.00	20.88	12/29/2023, 8
1-HR	1ST	48.45653	ug/m^3	RES_414	980207.32	3742698.94	20.93	0.00	20.93	12/29/2023, 8
1-HR	1ST	143.13264	ug/m^3	RES_415	980227.32	3742338.94	18.91	0.00	18.91	1/28/2020, 8
1-HR	1ST	124.99772	ug/m^3	RES_416	980227.32	3742358.94	18.95	0.00	18.95	1/28/2020, 8
1-HR	1ST	111.67401	ug/m^3	RES_417	980227.32	3742378.94	19.13	0.00	19.13	1/28/2020, 8
1-HR	1ST	101.44519	ug/m^3	RES_418	980227.32	3742398.94	19.35	0.00	19.35	1/28/2020, 8
1-HR	1ST	93.24136	ug/m^3	RES_419	980227.32	3742418.94	19.53	0.00	19.53	1/28/2020, 8
1-HR	1ST	86.42300	ug/m^3	RES_420	980227.32	3742438.94	19.76	0.00	19.76	1/28/2020, 8
1-HR	1ST	80.62918	ug/m^3	RES_421	980227.32	3742458.94	19.98	0.00	19.98	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	75.64293	ug/m^3	RES_422	980227.32	3742478.94	19.98	0.00	19.98	1/28/2020, 8
1-HR	1ST	71.26661	ug/m^3	RES_423	980227.32	3742498.94	19.98	0.00	19.98	1/28/2020, 8
1-HR	1ST	67.38705	ug/m^3	RES_424	980227.32	3742518.94	19.97	0.00	19.97	1/28/2020, 8
1-HR	1ST	63.91921	ug/m^3	RES_425	980227.32	3742538.94	19.99	0.00	19.99	1/28/2020, 8
1-HR	1ST	60.78228	ug/m^3	RES_426	980227.32	3742558.94	20.12	0.00	20.12	1/28/2020, 8
1-HR	1ST	58.38778	ug/m^3	RES_427	980227.32	3742578.94	20.36	0.00	20.36	12/29/2023, 8
1-HR	1ST	56.40706	ug/m^3	RES_428	980227.32	3742598.94	20.66	0.00	20.66	12/29/2023, 8
1-HR	1ST	54.58081	ug/m^3	RES_429	980227.32	3742618.94	20.88	0.00	20.88	12/29/2023, 8
1-HR	1ST	52.89587	ug/m^3	RES_430	980227.32	3742638.94	20.96	0.00	20.96	12/29/2023, 8
1-HR	1ST	51.33299	ug/m^3	RES_431	980227.32	3742658.94	20.89	0.00	20.89	12/29/2023, 8
1-HR	1ST	49.84939	ug/m^3	RES_432	980227.32	3742678.94	20.88	0.00	20.88	12/29/2023, 8
1-HR	1ST	48.41813	ug/m^3	RES_433	980227.32	3742698.94	21.04	0.00	21.04	12/29/2023, 8
1-HR	1ST	47.05205	ug/m^3	RES_434	980227.32	3742718.94	21.12	0.00	21.12	12/29/2023, 8
1-HR	1ST	45.73013	ug/m^3	RES_435	980227.32	3742738.94	21.20	0.00	21.20	12/29/2023, 8
1-HR	1ST	152.70219	ug/m^3	RES_436	980247.32	3742318.94	18.81	0.00	18.81	1/28/2020, 8
1-HR	1ST	132.45546	ug/m^3	RES_437	980247.32	3742338.94	18.91	0.00	18.91	1/28/2020, 8
1-HR	1ST	117.67818	ug/m^3	RES_438	980247.32	3742358.94	19.02	0.00	19.02	1/28/2020, 8
1-HR	1ST	106.40635	ug/m^3	RES_439	980247.32	3742378.94	19.18	0.00	19.18	1/28/2020, 8
1-HR	1ST	97.41879	ug/m^3	RES_440	980247.32	3742398.94	19.35	0.00	19.35	1/28/2020, 8
1-HR	1ST	89.98683	ug/m^3	RES_441	980247.32	3742418.94	19.55	0.00	19.55	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	83.68661	ug/m^3	RES_442	980247.32	3742438.94	19.78	0.00	19.78	1/28/2020, 8
1-HR	1ST	78.26242	ug/m^3	RES_443	980247.32	3742458.94	19.99	0.00	19.99	1/28/2020, 8
1-HR	1ST	73.55612	ug/m^3	RES_444	980247.32	3742478.94	19.99	0.00	19.99	1/28/2020, 8
1-HR	1ST	69.40898	ug/m^3	RES_445	980247.32	3742498.94	19.95	0.00	19.95	1/28/2020, 8
1-HR	1ST	65.72246	ug/m^3	RES_446	980247.32	3742518.94	19.89	0.00	19.89	1/28/2020, 8
1-HR	1ST	62.87147	ug/m^3	RES_447	980247.32	3742538.94	19.98	0.00	19.98	12/29/2023, 8
1-HR	1ST	60.55426	ug/m^3	RES_448	980247.32	3742558.94	20.15	0.00	20.15	12/29/2023, 8
1-HR	1ST	58.41258	ug/m^3	RES_449	980247.32	3742578.94	20.42	0.00	20.42	12/29/2023, 8
1-HR	1ST	56.43552	ug/m^3	RES_450	980247.32	3742598.94	20.65	0.00	20.65	12/29/2023, 8
1-HR	1ST	54.61152	ug/m^3	RES_451	980247.32	3742618.94	20.79	0.00	20.79	12/29/2023, 8
1-HR	1ST	52.91837	ug/m^3	RES_452	980247.32	3742638.94	20.82	0.00	20.82	12/29/2023, 8
1-HR	1ST	51.32193	ug/m^3	RES_453	980247.32	3742658.94	20.84	0.00	20.84	12/29/2023, 8
1-HR	1ST	49.79804	ug/m^3	RES_454	980247.32	3742678.94	20.90	0.00	20.90	12/29/2023, 8
1-HR	1ST	48.32482	ug/m^3	RES_455	980247.32	3742698.94	21.03	0.00	21.03	12/29/2023, 8
1-HR	1ST	46.92836	ug/m^3	RES_456	980247.32	3742718.94	21.14	0.00	21.14	1/18/2021, 8
1-HR	1ST	45.81245	ug/m^3	RES_457	980247.32	3742738.94	21.26	0.00	21.26	1/18/2021, 8
1-HR	1ST	45.06307	ug/m^3	RES_458	980247.32	3742758.94	21.37	0.00	21.37	1/18/2021, 8
1-HR	1ST	163.01162	ug/m^3	RES_459	980267.32	3742298.94	18.83	0.00	18.83	12/13/2023, 8
1-HR	1ST	141.30568	ug/m^3	RES_460	980267.32	3742318.94	18.86	0.00	18.86	1/28/2020, 8
1-HR	1ST	124.77852	ug/m^3	RES_461	980267.32	3742338.94	18.88	0.00	18.88	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	112.22200	ug/m^3	RES_462	980267.32	3742358.94	19.08	0.00	19.08	1/28/2020, 8
1-HR	1ST	102.27312	ug/m^3	RES_463	980267.32	3742378.94	19.23	0.00	19.23	1/28/2020, 8
1-HR	1ST	94.10697	ug/m^3	RES_464	980267.32	3742398.94	19.36	0.00	19.36	1/28/2020, 8
1-HR	1ST	87.21326	ug/m^3	RES_465	980267.32	3742418.94	19.54	0.00	19.54	1/28/2020, 8
1-HR	1ST	81.30037	ug/m^3	RES_466	980267.32	3742438.94	19.74	0.00	19.74	1/28/2020, 8
1-HR	1ST	76.17278	ug/m^3	RES_467	980267.32	3742458.94	19.93	0.00	19.93	1/28/2020, 8
1-HR	1ST	71.70584	ug/m^3	RES_468	980267.32	3742478.94	19.93	0.00	19.93	1/28/2020, 8
1-HR	1ST	68.17116	ug/m^3	RES_469	980267.32	3742498.94	19.92	0.00	19.92	12/29/2023, 8
1-HR	1ST	65.42277	ug/m^3	RES_470	980267.32	3742518.94	19.90	0.00	19.90	12/29/2023, 8
1-HR	1ST	62.97921	ug/m^3	RES_471	980267.32	3742538.94	20.00	0.00	20.00	1/18/2021, 8
1-HR	1ST	60.78850	ug/m^3	RES_472	980267.32	3742558.94	20.16	0.00	20.16	1/18/2021, 8
1-HR	1ST	58.77988	ug/m^3	RES_473	980267.32	3742578.94	20.41	0.00	20.41	1/18/2021, 8
1-HR	1ST	56.95248	ug/m^3	RES_474	980267.32	3742598.94	20.50	0.00	20.50	1/18/2021, 8
1-HR	1ST	55.26918	ug/m^3	RES_475	980267.32	3742618.94	20.55	0.00	20.55	1/18/2021, 8
1-HR	1ST	53.70908	ug/m^3	RES_476	980267.32	3742638.94	20.57	0.00	20.57	1/18/2021, 8
1-HR	1ST	52.24649	ug/m^3	RES_477	980267.32	3742658.94	20.74	0.00	20.74	1/18/2021, 8
1-HR	1ST	50.87678	ug/m^3	RES_478	980267.32	3742678.94	20.91	0.00	20.91	1/18/2021, 8
1-HR	1ST	49.59886	ug/m^3	RES_479	980267.32	3742698.94	20.90	0.00	20.90	1/18/2021, 8
1-HR	1ST	48.37916	ug/m^3	RES_480	980267.32	3742718.94	21.07	0.00	21.07	1/18/2021, 8
1-HR	1ST	47.35077	ug/m^3	RES_481	980267.32	3742738.94	21.30	0.00	21.30	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	46.93000	ug/m^3	RES_482	980267.32	3742758.94	21.49	0.00	21.49	1/18/2021, 8
1-HR	1ST	45.87406	ug/m^3	RES_483	980267.32	3742778.94	21.48	0.00	21.48	1/18/2021, 8
1-HR	1ST	178.30410	ug/m^3	RES_484	980287.32	3742278.94	18.85	0.00	18.85	12/13/2023, 8
1-HR	1ST	152.06208	ug/m^3	RES_485	980287.32	3742298.94	18.91	0.00	18.91	1/28/2020, 8
1-HR	1ST	133.37073	ug/m^3	RES_486	980287.32	3742318.94	18.89	0.00	18.89	1/28/2020, 8
1-HR	1ST	119.26054	ug/m^3	RES_487	980287.32	3742338.94	18.90	0.00	18.90	1/28/2020, 8
1-HR	1ST	108.10344	ug/m^3	RES_488	980287.32	3742358.94	19.08	0.00	19.08	1/28/2020, 8
1-HR	1ST	98.99028	ug/m^3	RES_489	980287.32	3742378.94	19.24	0.00	19.24	1/28/2020, 8
1-HR	1ST	91.36221	ug/m^3	RES_490	980287.32	3742398.94	19.39	0.00	19.39	1/28/2020, 8
1-HR	1ST	84.86214	ug/m^3	RES_491	980287.32	3742418.94	19.53	0.00	19.53	1/28/2020, 8
1-HR	1ST	80.19476	ug/m^3	RES_492	980287.32	3742438.94	19.66	0.00	19.66	1/18/2021, 8
1-HR	1ST	76.38029	ug/m^3	RES_493	980287.32	3742458.94	19.80	0.00	19.80	1/18/2021, 8
1-HR	1ST	73.02545	ug/m^3	RES_494	980287.32	3742478.94	19.82	0.00	19.82	1/18/2021, 8
1-HR	1ST	70.03461	ug/m^3	RES_495	980287.32	3742498.94	19.86	0.00	19.86	1/18/2021, 8
1-HR	1ST	67.34247	ug/m^3	RES_496	980287.32	3742518.94	19.93	0.00	19.93	1/18/2021, 8
1-HR	1ST	64.89924	ug/m^3	RES_497	980287.32	3742538.94	20.05	0.00	20.05	1/18/2021, 8
1-HR	1ST	62.67706	ug/m^3	RES_498	980287.32	3742558.94	20.20	0.00	20.20	1/18/2021, 8
1-HR	1ST	60.64204	ug/m^3	RES_499	980287.32	3742578.94	20.37	0.00	20.37	1/18/2021, 8
1-HR	1ST	58.78556	ug/m^3	RES_500	980287.32	3742598.94	20.34	0.00	20.34	1/18/2021, 8
1-HR	1ST	57.06904	ug/m^3	RES_501	980287.32	3742618.94	20.31	0.00	20.31	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	55.45744	ug/m^3	RES_502	980287.32	3742638.94	20.49	0.00	20.49	1/18/2021, 8
1-HR	1ST	53.94789	ug/m^3	RES_503	980287.32	3742658.94	20.68	0.00	20.68	1/18/2021, 8
1-HR	1ST	52.52889	ug/m^3	RES_504	980287.32	3742678.94	20.85	0.00	20.85	1/18/2021, 8
1-HR	1ST	51.19160	ug/m^3	RES_505	980287.32	3742698.94	20.92	0.00	20.92	1/18/2021, 8
1-HR	1ST	49.91623	ug/m^3	RES_506	980287.32	3742718.94	21.01	0.00	21.01	1/18/2021, 8
1-HR	1ST	48.69663	ug/m^3	RES_507	980287.32	3742738.94	21.11	0.00	21.11	1/18/2021, 8
1-HR	1ST	47.68104	ug/m^3	RES_508	980287.32	3742758.94	21.29	0.00	21.29	1/18/2021, 8
1-HR	1ST	46.40297	ug/m^3	RES_509	980287.32	3742778.94	21.26	0.00	21.26	1/18/2021, 8
1-HR	1ST	165.63410	ug/m^3	RES_510	980307.32	3742278.94	18.95	0.00	18.95	1/28/2020, 8
1-HR	1ST	144.16344	ug/m^3	RES_511	980307.32	3742298.94	19.01	0.00	19.01	1/28/2020, 8
1-HR	1ST	127.96307	ug/m^3	RES_512	980307.32	3742318.94	19.09	0.00	19.09	1/28/2020, 8
1-HR	1ST	115.26956	ug/m^3	RES_513	980307.32	3742338.94	19.19	0.00	19.19	1/28/2020, 8
1-HR	1ST	105.48514	ug/m^3	RES_514	980307.32	3742358.94	19.13	0.00	19.13	1/18/2021, 8
1-HR	1ST	98.43286	ug/m^3	RES_515	980307.32	3742378.94	19.22	0.00	19.22	1/18/2021, 8
1-HR	1ST	92.45620	ug/m^3	RES_516	980307.32	3742398.94	19.42	0.00	19.42	1/18/2021, 8
1-HR	1ST	87.34269	ug/m^3	RES_517	980307.32	3742418.94	19.52	0.00	19.52	1/18/2021, 8
1-HR	1ST	82.89922	ug/m^3	RES_518	980307.32	3742438.94	19.60	0.00	19.60	1/18/2021, 8
1-HR	1ST	79.00785	ug/m^3	RES_519	980307.32	3742458.94	19.64	0.00	19.64	1/18/2021, 8
1-HR	1ST	75.55912	ug/m^3	RES_520	980307.32	3742478.94	19.69	0.00	19.69	1/18/2021, 8
1-HR	1ST	72.47242	ug/m^3	RES_521	980307.32	3742498.94	19.79	0.00	19.79	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	69.68776	ug/m^3	RES_522	980307.32	3742518.94	19.96	0.00	19.96	1/18/2021, 8
1-HR	1ST	67.17094	ug/m^3	RES_523	980307.32	3742538.94	20.12	0.00	20.12	1/18/2021, 8
1-HR	1ST	64.88025	ug/m^3	RES_524	980307.32	3742558.94	20.24	0.00	20.24	1/18/2021, 8
1-HR	1ST	62.78811	ug/m^3	RES_525	980307.32	3742578.94	20.31	0.00	20.31	1/18/2021, 8
1-HR	1ST	60.87051	ug/m^3	RES_526	980307.32	3742598.94	20.25	0.00	20.25	1/18/2021, 8
1-HR	1ST	59.08623	ug/m^3	RES_527	980307.32	3742618.94	20.24	0.00	20.24	1/18/2021, 8
1-HR	1ST	57.40014	ug/m^3	RES_528	980307.32	3742638.94	20.49	0.00	20.49	1/18/2021, 8
1-HR	1ST	55.81597	ug/m^3	RES_529	980307.32	3742658.94	20.66	0.00	20.66	1/18/2021, 8
1-HR	1ST	54.31756	ug/m^3	RES_530	980307.32	3742678.94	20.78	0.00	20.78	1/18/2021, 8
1-HR	1ST	52.88589	ug/m^3	RES_531	980307.32	3742698.94	20.92	0.00	20.92	1/18/2021, 8
1-HR	1ST	51.51651	ug/m^3	RES_532	980307.32	3742718.94	21.01	0.00	21.01	1/18/2021, 8
1-HR	1ST	50.20488	ug/m^3	RES_533	980307.32	3742738.94	21.04	0.00	21.04	1/18/2021, 8
1-HR	1ST	48.94438	ug/m^3	RES_534	980307.32	3742758.94	21.02	0.00	21.02	1/18/2021, 8
1-HR	1ST	47.73032	ug/m^3	RES_535	980307.32	3742778.94	20.96	0.00	20.96	1/18/2021, 8
1-HR	1ST	200.13814	ug/m^3	RES_536	980327.32	3742258.94	18.84	0.00	18.84	2/5/2021, 8
1-HR	1ST	168.08008	ug/m^3	RES_537	980327.32	3742278.94	19.00	0.00	19.00	2/5/2021, 8
1-HR	1ST	144.41724	ug/m^3	RES_538	980327.32	3742298.94	19.09	0.00	19.09	2/5/2021, 8
1-HR	1ST	129.72432	ug/m^3	RES_539	980327.32	3742318.94	19.20	0.00	19.20	1/18/2021, 8
1-HR	1ST	118.89226	ug/m^3	RES_540	980327.32	3742338.94	19.30	0.00	19.30	1/18/2021, 8
1-HR	1ST	110.05039	ug/m^3	RES_541	980327.32	3742358.94	19.30	0.00	19.30	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	102.66412	ug/m^3	RES_542	980327.32	3742378.94	19.33	0.00	19.33	1/18/2021, 8
1-HR	1ST	96.40082	ug/m^3	RES_543	980327.32	3742398.94	19.36	0.00	19.36	1/18/2021, 8
1-HR	1ST	91.02191	ug/m^3	RES_544	980327.32	3742418.94	19.43	0.00	19.43	1/18/2021, 8
1-HR	1ST	86.34906	ug/m^3	RES_545	980327.32	3742438.94	19.51	0.00	19.51	1/18/2021, 8
1-HR	1ST	82.25066	ug/m^3	RES_546	980327.32	3742458.94	19.60	0.00	19.60	1/18/2021, 8
1-HR	1ST	78.63049	ug/m^3	RES_547	980327.32	3742478.94	19.68	0.00	19.68	1/18/2021, 8
1-HR	1ST	75.39302	ug/m^3	RES_548	980327.32	3742498.94	19.81	0.00	19.81	1/18/2021, 8
1-HR	1ST	72.47322	ug/m^3	RES_549	980327.32	3742518.94	20.06	0.00	20.06	1/18/2021, 8
1-HR	1ST	69.84189	ug/m^3	RES_550	980327.32	3742538.94	20.20	0.00	20.20	1/18/2021, 8
1-HR	1ST	67.45066	ug/m^3	RES_551	980327.32	3742558.94	20.27	0.00	20.27	1/18/2021, 8
1-HR	1ST	65.27083	ug/m^3	RES_552	980327.32	3742578.94	20.22	0.00	20.22	1/18/2021, 8
1-HR	1ST	63.24766	ug/m^3	RES_553	980327.32	3742598.94	20.24	0.00	20.24	1/18/2021, 8
1-HR	1ST	61.35119	ug/m^3	RES_554	980327.32	3742618.94	20.32	0.00	20.32	1/18/2021, 8
1-HR	1ST	59.55450	ug/m^3	RES_555	980327.32	3742638.94	20.50	0.00	20.50	1/18/2021, 8
1-HR	1ST	57.84738	ug/m^3	RES_556	980327.32	3742658.94	20.64	0.00	20.64	1/18/2021, 8
1-HR	1ST	56.21473	ug/m^3	RES_557	980327.32	3742678.94	20.75	0.00	20.75	1/18/2021, 8
1-HR	1ST	54.64565	ug/m^3	RES_558	980327.32	3742698.94	20.88	0.00	20.88	1/18/2021, 8
1-HR	1ST	53.13973	ug/m^3	RES_559	980327.32	3742718.94	20.94	0.00	20.94	1/18/2021, 8
1-HR	1ST	51.69543	ug/m^3	RES_560	980327.32	3742738.94	20.92	0.00	20.92	1/18/2021, 8
1-HR	1ST	50.30839	ug/m^3	RES_561	980327.32	3742758.94	20.82	0.00	20.82	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	212.91322	ug/m^3	RES_562	980347.32	3742258.94	18.77	0.00	18.77	2/5/2021, 8
1-HR	1ST	186.09964	ug/m^3	RES_563	980347.32	3742278.94	19.00	0.00	19.00	2/5/2021, 8
1-HR	1ST	159.05824	ug/m^3	RES_564	980347.32	3742298.94	19.17	0.00	19.17	2/5/2021, 8
1-HR	1ST	138.43532	ug/m^3	RES_565	980347.32	3742318.94	19.29	0.00	19.29	1/18/2021, 8
1-HR	1ST	126.35345	ug/m^3	RES_566	980347.32	3742338.94	19.35	0.00	19.35	1/18/2021, 8
1-HR	1ST	116.50835	ug/m^3	RES_567	980347.32	3742358.94	19.42	0.00	19.42	1/18/2021, 8
1-HR	1ST	108.35257	ug/m^3	RES_568	980347.32	3742378.94	19.44	0.00	19.44	1/18/2021, 8
1-HR	1ST	101.50397	ug/m^3	RES_569	980347.32	3742398.94	19.40	0.00	19.40	1/18/2021, 8
1-HR	1ST	95.67603	ug/m^3	RES_570	980347.32	3742418.94	19.35	0.00	19.35	1/18/2021, 8
1-HR	1ST	90.64912	ug/m^3	RES_571	980347.32	3742438.94	19.35	0.00	19.35	1/18/2021, 8
1-HR	1ST	86.25564	ug/m^3	RES_572	980347.32	3742458.94	19.47	0.00	19.47	1/18/2021, 8
1-HR	1ST	82.38409	ug/m^3	RES_573	980347.32	3742478.94	19.60	0.00	19.60	1/18/2021, 8
1-HR	1ST	78.93728	ug/m^3	RES_574	980347.32	3742498.94	19.77	0.00	19.77	1/18/2021, 8
1-HR	1ST	75.83287	ug/m^3	RES_575	980347.32	3742518.94	19.99	0.00	19.99	1/18/2021, 8
1-HR	1ST	73.03765	ug/m^3	RES_576	980347.32	3742538.94	20.11	0.00	20.11	1/18/2021, 8
1-HR	1ST	70.49747	ug/m^3	RES_577	980347.32	3742558.94	20.16	0.00	20.16	1/18/2021, 8
1-HR	1ST	68.16645	ug/m^3	RES_578	980347.32	3742578.94	20.10	0.00	20.10	1/18/2021, 8
1-HR	1ST	65.97565	ug/m^3	RES_579	980347.32	3742598.94	20.18	0.00	20.18	1/18/2021, 8
1-HR	1ST	63.89376	ug/m^3	RES_580	980347.32	3742618.94	20.33	0.00	20.33	1/18/2021, 8
1-HR	1ST	61.90474	ug/m^3	RES_581	980347.32	3742638.94	20.45	0.00	20.45	1/18/2021, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	59.99193	ug/m^3	RES_582	980347.32	3742658.94	20.60	0.00	20.60	1/18/2021, 8
1-HR	1ST	58.14784	ug/m^3	RES_583	980347.32	3742678.94	20.78	0.00	20.78	1/18/2021, 8
1-HR	1ST	56.38713	ug/m^3	RES_584	980347.32	3742698.94	20.80	0.00	20.80	1/18/2021, 8
1-HR	1ST	54.69724	ug/m^3	RES_585	980347.32	3742718.94	20.78	0.00	20.78	1/18/2021, 8
1-HR	1ST	53.07737	ug/m^3	RES_586	980347.32	3742738.94	20.71	0.00	20.71	1/18/2021, 8
1-HR	1ST	186.02823	ug/m^3	RES_587	980367.32	3742298.94	19.21	0.00	19.21	2/5/2021, 8
1-HR	1ST	156.62103	ug/m^3	RES_588	980367.32	3742318.94	19.35	0.00	19.35	2/5/2021, 8
1-HR	1ST	136.82958	ug/m^3	RES_589	980367.32	3742338.94	19.38	0.00	19.38	1/18/2021, 8
1-HR	1ST	125.25735	ug/m^3	RES_590	980367.32	3742358.94	19.47	0.00	19.47	1/18/2021, 8
1-HR	1ST	115.84869	ug/m^3	RES_591	980367.32	3742378.94	19.49	0.00	19.49	1/18/2021, 8
1-HR	1ST	108.11498	ug/m^3	RES_592	980367.32	3742398.94	19.44	0.00	19.44	1/18/2021, 8
1-HR	1ST	101.64376	ug/m^3	RES_593	980367.32	3742418.94	19.35	0.00	19.35	1/18/2021, 8
1-HR	1ST	96.12020	ug/m^3	RES_594	980367.32	3742438.94	19.30	0.00	19.30	1/18/2021, 8
1-HR	1ST	91.33066	ug/m^3	RES_595	980367.32	3742458.94	19.31	0.00	19.31	1/18/2021, 8
1-HR	1ST	87.10516	ug/m^3	RES_596	980367.32	3742478.94	19.45	0.00	19.45	1/18/2021, 8
1-HR	1ST	83.34415	ug/m^3	RES_597	980367.32	3742498.94	19.63	0.00	19.63	1/18/2021, 8
1-HR	1ST	79.96852	ug/m^3	RES_598	980367.32	3742518.94	19.84	0.00	19.84	1/18/2021, 8
1-HR	1ST	76.93230	ug/m^3	RES_599	980367.32	3742538.94	19.92	0.00	19.92	1/18/2021, 8
1-HR	1ST	74.15486	ug/m^3	RES_600	980367.32	3742558.94	19.96	0.00	19.96	1/18/2021, 8
1-HR	1ST	71.54638	ug/m^3	RES_601	980367.32	3742578.94	20.06	0.00	20.06	1/18/2021, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	69.05681	ug/m^3	RES_602	980367.32	3742598.94	20.16	0.00	20.16	1/18/2021, 8
1-HR	1ST	66.66095	ug/m^3	RES_603	980367.32	3742618.94	20.26	0.00	20.26	1/18/2021, 8
1-HR	1ST	64.34488	ug/m^3	RES_604	980367.32	3742638.94	20.42	0.00	20.42	1/18/2021, 8
1-HR	1ST	62.11939	ug/m^3	RES_605	980367.32	3742658.94	20.57	0.00	20.57	1/18/2021, 8
1-HR	1ST	59.98824	ug/m^3	RES_606	980367.32	3742678.94	20.70	0.00	20.70	1/18/2021, 8
1-HR	1ST	57.96538	ug/m^3	RES_607	980367.32	3742698.94	20.66	0.00	20.66	1/18/2021, 8
1-HR	1ST	56.03901	ug/m^3	RES_608	980367.32	3742718.94	20.61	0.00	20.61	1/18/2021, 8
1-HR	1ST	189.99973	ug/m^3	RES_609	980387.32	3742318.94	19.26	0.00	19.26	2/5/2021, 8
1-HR	1ST	161.52771	ug/m^3	RES_610	980387.32	3742338.94	19.45	0.00	19.45	2/5/2021, 8
1-HR	1ST	138.90275	ug/m^3	RES_611	980387.32	3742358.94	19.49	0.00	19.49	2/5/2021, 8
1-HR	1ST	126.30682	ug/m^3	RES_612	980387.32	3742378.94	19.47	0.00	19.47	1/18/2021, 8
1-HR	1ST	117.34251	ug/m^3	RES_613	980387.32	3742398.94	19.40	0.00	19.40	1/18/2021, 8
1-HR	1ST	109.90046	ug/m^3	RES_614	980387.32	3742418.94	19.39	0.00	19.39	1/18/2021, 8
1-HR	1ST	103.58080	ug/m^3	RES_615	980387.32	3742438.94	19.32	0.00	19.32	1/18/2021, 8
1-HR	1ST	98.11892	ug/m^3	RES_616	980387.32	3742458.94	19.17	0.00	19.17	1/18/2021, 8
1-HR	1ST	93.30423	ug/m^3	RES_617	980387.32	3742478.94	19.25	0.00	19.25	1/18/2021, 8
1-HR	1ST	89.03304	ug/m^3	RES_618	980387.32	3742498.94	19.41	0.00	19.41	1/18/2021, 8
1-HR	1ST	85.23654	ug/m^3	RES_619	980387.32	3742518.94	19.62	0.00	19.62	1/18/2021, 8
1-HR	1ST	81.78998	ug/m^3	RES_620	980387.32	3742538.94	19.73	0.00	19.73	1/18/2021, 8
1-HR	1ST	78.54853	ug/m^3	RES_621	980387.32	3742558.94	19.81	0.00	19.81	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	75.40729	ug/m^3	RES_622	980387.32	3742578.94	19.99	0.00	19.99	1/18/2021, 8
1-HR	1ST	72.36560	ug/m^3	RES_623	980387.32	3742598.94	20.12	0.00	20.12	1/18/2021, 8
1-HR	1ST	69.44147	ug/m^3	RES_624	980387.32	3742618.94	20.20	0.00	20.20	1/18/2021, 8
1-HR	1ST	66.64038	ug/m^3	RES_625	980387.32	3742638.94	20.37	0.00	20.37	1/18/2021, 8
1-HR	1ST	63.98961	ug/m^3	RES_626	980387.32	3742658.94	20.49	0.00	20.49	1/18/2021, 8
1-HR	1ST	61.49721	ug/m^3	RES_627	980387.32	3742678.94	20.54	0.00	20.54	1/18/2021, 8
1-HR	1ST	59.16026	ug/m^3	RES_628	980387.32	3742698.94	20.51	0.00	20.51	1/18/2021, 8
1-HR	1ST	166.91232	ug/m^3	RES_629	980407.32	3742358.94	19.32	0.00	19.32	2/5/2021, 8
1-HR	1ST	147.63246	ug/m^3	RES_630	980407.32	3742378.94	19.39	0.00	19.39	2/5/2021, 8
1-HR	1ST	131.93285	ug/m^3	RES_631	980407.32	3742398.94	19.39	0.00	19.39	1/18/2021, 8
1-HR	1ST	122.58521	ug/m^3	RES_632	980407.32	3742418.94	19.20	0.00	19.20	1/18/2021, 8
1-HR	1ST	114.62738	ug/m^3	RES_633	980407.32	3742438.94	19.00	0.00	19.00	1/18/2021, 8
1-HR	1ST	107.77459	ug/m^3	RES_634	980407.32	3742458.94	19.04	0.00	19.04	1/18/2021, 8
1-HR	1ST	101.87577	ug/m^3	RES_635	980407.32	3742478.94	19.09	0.00	19.09	1/18/2021, 8
1-HR	1ST	96.76808	ug/m^3	RES_636	980407.32	3742498.94	19.17	0.00	19.17	1/18/2021, 8
1-HR	1ST	92.19695	ug/m^3	RES_637	980407.32	3742518.94	19.39	0.00	19.39	1/18/2021, 8
1-HR	1ST	87.84331	ug/m^3	RES_638	980407.32	3742538.94	19.59	0.00	19.59	1/18/2021, 8
1-HR	1ST	83.56203	ug/m^3	RES_639	980407.32	3742558.94	19.78	0.00	19.78	1/18/2021, 8
1-HR	1ST	79.41130	ug/m^3	RES_640	980407.32	3742578.94	19.92	0.00	19.92	1/18/2021, 8
1-HR	1ST	75.46694	ug/m^3	RES_641	980407.32	3742598.94	20.05	0.00	20.05	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	71.77865	ug/m^3	RES_642	980407.32	3742618.94	20.18	0.00	20.18	1/18/2021, 8
1-HR	1ST	68.36546	ug/m^3	RES_643	980407.32	3742638.94	20.31	0.00	20.31	1/18/2021, 8
1-HR	1ST	65.22677	ug/m^3	RES_644	980407.32	3742658.94	20.38	0.00	20.38	1/18/2021, 8
1-HR	1ST	62.34604	ug/m^3	RES_645	980407.32	3742678.94	20.40	0.00	20.40	1/18/2021, 8
1-HR	1ST	59.69795	ug/m^3	RES_646	980407.32	3742698.94	20.39	0.00	20.39	1/18/2021, 8
1-HR	1ST	168.35286	ug/m^3	RES_647	980427.32	3742378.94	19.03	0.00	19.03	2/5/2021, 8
1-HR	1ST	164.78134	ug/m^3	RES_648	980427.32	3742398.94	19.02	0.00	19.02	2/5/2021, 8
1-HR	1ST	143.33586	ug/m^3	RES_649	980427.32	3742418.94	18.85	0.00	18.85	1/18/2021, 8
1-HR	1ST	131.71694	ug/m^3	RES_650	980427.32	3742438.94	18.71	0.00	18.71	1/18/2021, 8
1-HR	1ST	122.35888	ug/m^3	RES_651	980427.32	3742458.94	18.94	0.00	18.94	1/18/2021, 8
1-HR	1ST	114.54480	ug/m^3	RES_652	980427.32	3742478.94	19.10	0.00	19.10	1/18/2021, 8
1-HR	1ST	107.79387	ug/m^3	RES_653	980427.32	3742498.94	19.22	0.00	19.22	1/18/2021, 8
1-HR	1ST	101.19692	ug/m^3	RES_654	980427.32	3742518.94	19.44	0.00	19.44	1/18/2021, 8
1-HR	1ST	94.57405	ug/m^3	RES_655	980427.32	3742538.94	19.64	0.00	19.64	1/18/2021, 8
1-HR	1ST	88.28887	ug/m^3	RES_656	980427.32	3742558.94	19.82	0.00	19.82	1/18/2021, 8
1-HR	1ST	82.58571	ug/m^3	RES_657	980427.32	3742578.94	19.86	0.00	19.86	1/18/2021, 8
1-HR	1ST	77.48450	ug/m^3	RES_658	980427.32	3742598.94	19.98	0.00	19.98	1/18/2021, 8
1-HR	1ST	72.94900	ug/m^3	RES_659	980427.32	3742618.94	20.19	0.00	20.19	1/18/2021, 8
1-HR	1ST	68.94220	ug/m^3	RES_660	980427.32	3742638.94	20.23	0.00	20.23	1/18/2021, 8
1-HR	1ST	65.37310	ug/m^3	RES_661	980427.32	3742658.94	20.26	0.00	20.26	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	62.17729	ug/m^3	RES_662	980427.32	3742678.94	20.28	0.00	20.28	1/18/2021, 8
1-HR	1ST	171.61400	ug/m^3	RES_663	980447.32	3742438.94	18.48	0.00	18.48	2/5/2021, 8
1-HR	1ST	148.11921	ug/m^3	RES_664	980447.32	3742458.94	18.79	0.00	18.79	2/5/2021, 8
1-HR	1ST	134.78863	ug/m^3	RES_665	980447.32	3742478.94	19.05	0.00	19.05	1/18/2021, 8
1-HR	1ST	122.51351	ug/m^3	RES_666	980447.32	3742498.94	19.26	0.00	19.26	1/18/2021, 8
1-HR	1ST	110.13112	ug/m^3	RES_667	980447.32	3742518.94	19.45	0.00	19.45	1/18/2021, 8
1-HR	1ST	99.40876	ug/m^3	RES_668	980447.32	3742538.94	19.55	0.00	19.55	1/18/2021, 8
1-HR	1ST	90.57205	ug/m^3	RES_669	980447.32	3742558.94	19.57	0.00	19.57	1/18/2021, 8
1-HR	1ST	83.29031	ug/m^3	RES_670	980447.32	3742578.94	19.72	0.00	19.72	1/18/2021, 8
1-HR	1ST	77.23841	ug/m^3	RES_671	980447.32	3742598.94	19.90	0.00	19.90	1/18/2021, 8
1-HR	1ST	72.13790	ug/m^3	RES_672	980447.32	3742618.94	20.06	0.00	20.06	1/18/2021, 8
1-HR	1ST	67.78307	ug/m^3	RES_673	980447.32	3742638.94	20.11	0.00	20.11	1/18/2021, 8
1-HR	1ST	64.00690	ug/m^3	RES_674	980447.32	3742658.94	20.15	0.00	20.15	1/18/2021, 8
1-HR	1ST	178.22776	ug/m^3	RES_675	980467.32	3742478.94	18.84	0.00	18.84	2/5/2021, 8
1-HR	1ST	140.61196	ug/m^3	RES_676	980467.32	3742498.94	19.14	0.00	19.14	2/5/2021, 8
1-HR	1ST	117.40327	ug/m^3	RES_677	980467.32	3742518.94	19.33	0.00	19.33	2/5/2021, 8
1-HR	1ST	101.96242	ug/m^3	RES_678	980467.32	3742538.94	19.38	0.00	19.38	2/5/2021, 8
1-HR	1ST	90.98805	ug/m^3	RES_679	980467.32	3742558.94	19.26	0.00	19.26	12/27/2023, 8
1-HR	1ST	71.86068	ug/m^3	RES_680	980467.32	3742618.94	19.89	0.00	19.89	12/27/2023, 8
1-HR	1ST	67.44142	ug/m^3	RES_681	980467.32	3742638.94	20.00	0.00	20.00	12/27/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	122.61644	ug/m^3	RES_682	980487.32	3742518.94	19.06	0.00	19.06	2/5/2021, 8
1-HR	1ST	106.38484	ug/m^3	RES_683	980487.32	3742538.94	19.14	0.00	19.14	2/5/2021, 8
1-HR	1ST	63.03257	ug/m^3	P_001	980077.18	3742616.83	20.05	0.00	20.05	1/28/2020, 8
1-HR	1ST	60.16818	ug/m^3	P_002	980077.18	3742636.83	20.26	0.00	20.26	1/28/2020, 8
1-HR	1ST	57.55972	ug/m^3	P_003	980077.18	3742656.83	20.55	0.00	20.55	1/28/2020, 8
1-HR	1ST	55.17843	ug/m^3	P_004	980077.18	3742676.83	20.68	0.00	20.68	1/28/2020, 8
1-HR	1ST	52.98697	ug/m^3	P_005	980077.18	3742696.83	20.68	0.00	20.68	1/28/2020, 8
1-HR	1ST	50.95419	ug/m^3	P_006	980077.18	3742716.83	20.55	0.00	20.55	1/28/2020, 8
1-HR	1ST	49.04512	ug/m^3	P_007	980077.18	3742736.83	20.45	0.00	20.45	1/28/2020, 8
1-HR	1ST	61.83483	ug/m^3	P_008	980097.18	3742616.83	20.12	0.00	20.12	1/28/2020, 8
1-HR	1ST	59.03449	ug/m^3	P_009	980097.18	3742636.83	20.39	0.00	20.39	1/28/2020, 8
1-HR	1ST	56.47073	ug/m^3	P_010	980097.18	3742656.83	20.78	0.00	20.78	1/28/2020, 8
1-HR	1ST	54.12745	ug/m^3	P_011	980097.18	3742676.83	20.96	0.00	20.96	1/28/2020, 8
1-HR	1ST	51.96915	ug/m^3	P_012	980097.18	3742696.83	20.96	0.00	20.96	1/28/2020, 8
1-HR	1ST	49.97002	ug/m^3	P_013	980097.18	3742716.83	20.69	0.00	20.69	1/28/2020, 8
1-HR	1ST	48.07757	ug/m^3	P_014	980097.18	3742736.83	20.55	0.00	20.55	1/28/2020, 8
1-HR	1ST	57.79407	ug/m^3	P_015	980117.18	3742636.83	20.48	0.00	20.48	1/28/2020, 8
1-HR	1ST	55.29968	ug/m^3	P_016	980117.18	3742656.83	20.83	0.00	20.83	1/28/2020, 8
1-HR	1ST	53.00843	ug/m^3	P_017	980117.18	3742676.83	21.00	0.00	21.00	1/28/2020, 8
1-HR	1ST	50.89056	ug/m^3	P_018	980117.18	3742696.83	20.97	0.00	20.97	1/28/2020, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	48.91719	ug/m^3	P_019	980117.18	3742716.83	20.70	0.00	20.70	1/28/2020, 8
1-HR	1ST	47.03811	ug/m^3	P_020	980117.18	3742736.83	20.59	0.00	20.59	1/28/2020, 8
1-HR	1ST	54.08206	ug/m^3	P_021	980137.18	3742656.83	20.81	0.00	20.81	1/28/2020, 8
1-HR	1ST	51.84701	ug/m^3	P_022	980137.18	3742676.83	20.94	0.00	20.94	1/28/2020, 8
1-HR	1ST	49.76986	ug/m^3	P_023	980137.18	3742696.83	20.86	0.00	20.86	1/28/2020, 8
1-HR	1ST	47.81649	ug/m^3	P_024	980137.18	3742716.83	20.62	0.00	20.62	1/28/2020, 8
1-HR	1ST	45.94351	ug/m^3	P_025	980137.18	3742736.83	20.58	0.00	20.58	1/28/2020, 8
1-HR	1ST	48.61931	ug/m^3	P_026	980157.18	3742696.83	20.73	0.00	20.73	1/28/2020, 8
1-HR	1ST	47.14935	ug/m^3	P_027	980157.18	3742716.83	20.61	0.00	20.61	12/29/2023, 8
1-HR	1ST	47.24625	ug/m^3	P_028	980177.18	3742716.83	20.77	0.00	20.77	12/29/2023, 8
1-HR	1ST	34.03420	ug/m^3	S_001	980089.92	3741804.77	17.51	0.00	17.51	1/4/2022, 8
1-HR	1ST	35.58682	ug/m^3	S_002	980089.92	3741824.77	17.50	0.00	17.50	1/4/2022, 8
1-HR	1ST	37.44636	ug/m^3	S_003	980089.92	3741844.77	17.49	0.00	17.49	1/4/2022, 8
1-HR	1ST	39.67725	ug/m^3	S_004	980089.92	3741864.77	17.48	0.00	17.48	1/4/2022, 8
1-HR	1ST	42.37088	ug/m^3	S_005	980089.92	3741884.77	17.50	0.00	17.50	1/4/2022, 8
1-HR	1ST	45.63304	ug/m^3	S_006	980089.92	3741904.77	17.51	0.00	17.51	1/4/2022, 8
1-HR	1ST	49.62418	ug/m^3	S_007	980089.92	3741924.77	17.51	0.00	17.51	1/4/2022, 8
1-HR	1ST	54.60223	ug/m^3	S_008	980089.92	3741944.77	17.53	0.00	17.53	1/4/2022, 8
1-HR	1ST	61.03608	ug/m^3	S_009	980089.92	3741964.77	17.60	0.00	17.60	1/4/2022, 8
1-HR	1ST	73.47344	ug/m^3	S_010	980089.92	3741984.77	17.73	0.00	17.73	1/2/2019, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	96.60834	ug/m^3	S_011	980089.92	3742004.77	17.79	0.00	17.79	1/2/2019, 8
1-HR	1ST	134.36124	ug/m^3	S_012	980089.92	3742024.77	17.88	0.00	17.88	1/2/2019, 8
1-HR	1ST	33.80292	ug/m^3	S_013	980109.92	3741804.77	17.01	0.00	17.01	1/4/2022, 8
1-HR	1ST	35.22130	ug/m^3	S_014	980109.92	3741824.77	17.12	0.00	17.12	1/4/2022, 8
1-HR	1ST	36.92493	ug/m^3	S_015	980109.92	3741844.77	17.17	0.00	17.17	1/4/2022, 8
1-HR	1ST	38.97379	ug/m^3	S_016	980109.92	3741864.77	17.19	0.00	17.19	1/4/2022, 8
1-HR	1ST	41.43172	ug/m^3	S_017	980109.92	3741884.77	17.14	0.00	17.14	1/4/2022, 8
1-HR	1ST	44.41907	ug/m^3	S_018	980109.92	3741904.77	17.12	0.00	17.12	1/4/2022, 8
1-HR	1ST	48.09129	ug/m^3	S_019	980109.92	3741924.77	17.14	0.00	17.14	1/4/2022, 8
1-HR	1ST	52.70683	ug/m^3	S_020	980109.92	3741944.77	17.24	0.00	17.24	1/4/2022, 8
1-HR	1ST	58.64371	ug/m^3	S_021	980109.92	3741964.77	17.37	0.00	17.37	1/4/2022, 8
1-HR	1ST	66.56435	ug/m^3	S_022	980109.92	3741984.77	17.53	0.00	17.53	1/4/2022, 8
1-HR	1ST	84.28811	ug/m^3	S_023	980109.92	3742004.77	17.68	0.00	17.68	1/2/2019, 8
1-HR	1ST	116.63641	ug/m^3	S_024	980109.92	3742024.77	17.81	0.00	17.81	1/2/2019, 8
1-HR	1ST	33.33743	ug/m^3	S_025	980129.92	3741784.77	16.84	0.00	16.84	1/2/2019, 8
1-HR	1ST	33.60109	ug/m^3	S_026	980129.92	3741804.77	16.83	0.00	16.83	1/4/2022, 8
1-HR	1ST	34.85852	ug/m^3	S_027	980129.92	3741824.77	16.98	0.00	16.98	1/4/2022, 8
1-HR	1ST	36.38797	ug/m^3	S_028	980129.92	3741844.77	17.06	0.00	17.06	1/4/2022, 8
1-HR	1ST	38.24475	ug/m^3	S_029	980129.92	3741864.77	17.08	0.00	17.08	1/4/2022, 8
1-HR	1ST	40.47164	ug/m^3	S_030	980129.92	3741884.77	16.92	0.00	16.92	1/4/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	43.20808	ug/m^3	S_031	980129.92	3741904.77	16.85	0.00	16.85	1/4/2022, 8
1-HR	1ST	46.60029	ug/m^3	S_032	980129.92	3741924.77	16.84	0.00	16.84	1/4/2022, 8
1-HR	1ST	50.89588	ug/m^3	S_033	980129.92	3741944.77	17.00	0.00	17.00	1/4/2022, 8
1-HR	1ST	56.38041	ug/m^3	S_034	980129.92	3741964.77	17.17	0.00	17.17	1/4/2022, 8
1-HR	1ST	63.61431	ug/m^3	S_035	980129.92	3741984.77	17.36	0.00	17.36	1/4/2022, 8
1-HR	1ST	73.58245	ug/m^3	S_036	980129.92	3742004.77	17.59	0.00	17.59	1/4/2022, 8
1-HR	1ST	99.80857	ug/m^3	S_037	980129.92	3742024.77	17.79	0.00	17.79	1/2/2019, 8
1-HR	1ST	34.77306	ug/m^3	S_038	980149.92	3741764.77	16.72	0.00	16.72	1/2/2019, 8
1-HR	1ST	34.70127	ug/m^3	S_039	980149.92	3741784.77	16.69	0.00	16.69	1/2/2019, 8
1-HR	1ST	34.61684	ug/m^3	S_040	980149.92	3741804.77	16.79	0.00	16.79	1/2/2019, 8
1-HR	1ST	34.56910	ug/m^3	S_041	980149.92	3741824.77	16.94	0.00	16.94	1/4/2022, 8
1-HR	1ST	35.91489	ug/m^3	S_042	980149.92	3741844.77	17.06	0.00	17.06	1/4/2022, 8
1-HR	1ST	37.58263	ug/m^3	S_043	980149.92	3741864.77	17.15	0.00	17.15	1/4/2022, 8
1-HR	1ST	39.60790	ug/m^3	S_044	980149.92	3741884.77	17.01	0.00	17.01	1/4/2022, 8
1-HR	1ST	42.09910	ug/m^3	S_045	980149.92	3741904.77	16.86	0.00	16.86	1/4/2022, 8
1-HR	1ST	45.17200	ug/m^3	S_046	980149.92	3741924.77	16.70	0.00	16.70	1/4/2022, 8
1-HR	1ST	49.11765	ug/m^3	S_047	980149.92	3741944.77	16.84	0.00	16.84	1/4/2022, 8
1-HR	1ST	54.16789	ug/m^3	S_048	980149.92	3741964.77	17.04	0.00	17.04	1/4/2022, 8
1-HR	1ST	60.77754	ug/m^3	S_049	980149.92	3741984.77	17.25	0.00	17.25	1/4/2022, 8
1-HR	1ST	69.81817	ug/m^3	S_050	980149.92	3742004.77	17.53	0.00	17.53	1/4/2022, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	84.11537	ug/m^3	S_051	980149.92	3742024.77	17.79	0.00	17.79	1/2/2019, 8
1-HR	1ST	122.84692	ug/m^3	S_052	980149.92	3742044.77	17.92	0.00	17.92	1/2/2019, 8
1-HR	1ST	36.43696	ug/m^3	S_053	980169.92	3741744.77	16.64	0.00	16.64	1/2/2019, 8
1-HR	1ST	36.40319	ug/m^3	S_054	980169.92	3741764.77	16.56	0.00	16.56	1/2/2019, 8
1-HR	1ST	36.31463	ug/m^3	S_055	980169.92	3741784.77	16.62	0.00	16.62	1/2/2019, 8
1-HR	1ST	36.17727	ug/m^3	S_056	980169.92	3741804.77	16.78	0.00	16.78	1/2/2019, 8
1-HR	1ST	35.99376	ug/m^3	S_057	980169.92	3741824.77	16.89	0.00	16.89	1/2/2019, 8
1-HR	1ST	35.81286	ug/m^3	S_058	980169.92	3741844.77	16.99	0.00	16.99	1/2/2019, 8
1-HR	1ST	36.98646	ug/m^3	S_059	980169.92	3741864.77	17.09	0.00	17.09	1/4/2022, 8
1-HR	1ST	38.79679	ug/m^3	S_060	980169.92	3741884.77	17.08	0.00	17.08	1/4/2022, 8
1-HR	1ST	41.06098	ug/m^3	S_061	980169.92	3741904.77	17.05	0.00	17.05	1/4/2022, 8
1-HR	1ST	43.87897	ug/m^3	S_062	980169.92	3741924.77	16.98	0.00	16.98	1/4/2022, 8
1-HR	1ST	47.44329	ug/m^3	S_063	980169.92	3741944.77	16.98	0.00	16.98	1/4/2022, 8
1-HR	1ST	51.98610	ug/m^3	S_064	980169.92	3741964.77	17.02	0.00	17.02	1/4/2022, 8
1-HR	1ST	57.94843	ug/m^3	S_065	980169.92	3741984.77	17.17	0.00	17.17	1/4/2022, 8
1-HR	1ST	66.07199	ug/m^3	S_066	980169.92	3742004.77	17.45	0.00	17.45	1/4/2022, 8
1-HR	1ST	77.58958	ug/m^3	S_067	980169.92	3742024.77	17.74	0.00	17.74	1/4/2022, 8
1-HR	1ST	100.01286	ug/m^3	S_068	980169.92	3742044.77	17.96	0.00	17.96	1/2/2019, 8
1-HR	1ST	38.28612	ug/m^3	S_069	980189.92	3741744.77	16.36	0.00	16.36	1/2/2019, 8
1-HR	1ST	38.28572	ug/m^3	S_070	980189.92	3741764.77	16.46	0.00	16.46	1/2/2019, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	38.19398	ug/m^3	S_071	980189.92	3741784.77	16.60	0.00	16.60	1/2/2019, 8
1-HR	1ST	38.01412	ug/m^3	S_072	980189.92	3741804.77	16.77	0.00	16.77	1/2/2019, 8
1-HR	1ST	37.74562	ug/m^3	S_073	980189.92	3741824.77	16.85	0.00	16.85	1/2/2019, 8
1-HR	1ST	37.44932	ug/m^3	S_074	980189.92	3741844.77	16.94	0.00	16.94	1/2/2019, 8
1-HR	1ST	37.17472	ug/m^3	S_075	980189.92	3741864.77	17.03	0.00	17.03	1/2/2019, 8
1-HR	1ST	38.08123	ug/m^3	S_076	980189.92	3741884.77	17.15	0.00	17.15	1/4/2022, 8
1-HR	1ST	40.08457	ug/m^3	S_077	980189.92	3741904.77	17.25	0.00	17.25	1/4/2022, 8
1-HR	1ST	42.62265	ug/m^3	S_078	980189.92	3741924.77	17.33	0.00	17.33	1/4/2022, 8
1-HR	1ST	45.81005	ug/m^3	S_079	980189.92	3741944.77	17.28	0.00	17.28	1/4/2022, 8
1-HR	1ST	49.86401	ug/m^3	S_080	980189.92	3741964.77	17.21	0.00	17.21	1/4/2022, 8
1-HR	1ST	55.10259	ug/m^3	S_081	980189.92	3741984.77	17.14	0.00	17.14	1/4/2022, 8
1-HR	1ST	62.21306	ug/m^3	S_082	980189.92	3742004.77	17.30	0.00	17.30	1/4/2022, 8
1-HR	1ST	72.20179	ug/m^3	S_083	980189.92	3742024.77	17.56	0.00	17.56	1/4/2022, 8
1-HR	1ST	87.36324	ug/m^3	S_084	980189.92	3742044.77	17.88	0.00	17.88	1/4/2022, 8
1-HR	1ST	40.40634	ug/m^3	S_085	980209.92	3741724.77	16.33	0.00	16.33	1/2/2019, 8
1-HR	1ST	40.44817	ug/m^3	S_086	980209.92	3741744.77	16.26	0.00	16.26	1/2/2019, 8
1-HR	1ST	40.47380	ug/m^3	S_087	980209.92	3741764.77	16.43	0.00	16.43	1/2/2019, 8
1-HR	1ST	40.37261	ug/m^3	S_088	980209.92	3741784.77	16.59	0.00	16.59	1/2/2019, 8
1-HR	1ST	40.15017	ug/m^3	S_089	980209.92	3741804.77	16.75	0.00	16.75	1/2/2019, 8
1-HR	1ST	39.81180	ug/m^3	S_090	980209.92	3741824.77	16.83	0.00	16.83	1/2/2019, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	39.42115	ug/m^3	S_091	980209.92	3741844.77	16.93	0.00	16.93	1/2/2019, 8
1-HR	1ST	39.02137	ug/m^3	S_092	980209.92	3741864.77	17.05	0.00	17.05	1/2/2019, 8
1-HR	1ST	38.66712	ug/m^3	S_093	980209.92	3741884.77	17.24	0.00	17.24	1/2/2019, 8
1-HR	1ST	39.21882	ug/m^3	S_094	980209.92	3741904.77	17.43	0.00	17.43	1/4/2022, 8
1-HR	1ST	41.42415	ug/m^3	S_095	980209.92	3741924.77	17.63	0.00	17.63	1/4/2022, 8
1-HR	1ST	44.21582	ug/m^3	S_096	980209.92	3741944.77	17.60	0.00	17.60	1/4/2022, 8
1-HR	1ST	47.76188	ug/m^3	S_097	980209.92	3741964.77	17.46	0.00	17.46	1/4/2022, 8
1-HR	1ST	52.28662	ug/m^3	S_098	980209.92	3741984.77	17.20	0.00	17.20	1/4/2022, 8
1-HR	1ST	58.35664	ug/m^3	S_099	980209.92	3742004.77	17.19	0.00	17.19	1/4/2022, 8
1-HR	1ST	66.74586	ug/m^3	S_100	980209.92	3742024.77	17.35	0.00	17.35	1/4/2022, 8
1-HR	1ST	79.37561	ug/m^3	S_101	980209.92	3742044.77	17.75	0.00	17.75	12/19/2023, 8
1-HR	1ST	103.43309	ug/m^3	S_102	980209.92	3742064.77	17.97	0.00	17.97	12/19/2023, 8
1-HR	1ST	42.85210	ug/m^3	S_103	980229.92	3741704.77	16.26	0.00	16.26	1/2/2019, 8
1-HR	1ST	42.89847	ug/m^3	S_104	980229.92	3741724.77	16.15	0.00	16.15	1/2/2019, 8
1-HR	1ST	42.99187	ug/m^3	S_105	980229.92	3741744.77	16.23	0.00	16.23	1/2/2019, 8
1-HR	1ST	43.01237	ug/m^3	S_106	980229.92	3741764.77	16.38	0.00	16.38	1/2/2019, 8
1-HR	1ST	42.88913	ug/m^3	S_107	980229.92	3741784.77	16.52	0.00	16.52	1/2/2019, 8
1-HR	1ST	42.61895	ug/m^3	S_108	980229.92	3741804.77	16.65	0.00	16.65	1/2/2019, 8
1-HR	1ST	42.22402	ug/m^3	S_109	980229.92	3741824.77	16.79	0.00	16.79	1/2/2019, 8
1-HR	1ST	41.75063	ug/m^3	S_110	980229.92	3741844.77	16.95	0.00	16.95	1/2/2019, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	41.24554	ug/m^3	S_111	980229.92	3741864.77	17.16	0.00	17.16	1/2/2019, 8
1-HR	1ST	40.74812	ug/m^3	S_112	980229.92	3741884.77	17.36	0.00	17.36	1/2/2019, 8
1-HR	1ST	40.30805	ug/m^3	S_113	980229.92	3741904.77	17.57	0.00	17.57	1/2/2019, 8
1-HR	1ST	40.35427	ug/m^3	S_114	980229.92	3741924.77	17.81	0.00	17.81	1/4/2022, 8
1-HR	1ST	42.71465	ug/m^3	S_115	980229.92	3741944.77	17.82	0.00	17.82	1/4/2022, 8
1-HR	1ST	45.74471	ug/m^3	S_116	980229.92	3741964.77	17.68	0.00	17.68	1/4/2022, 8
1-HR	1ST	49.57540	ug/m^3	S_117	980229.92	3741984.77	17.30	0.00	17.30	1/4/2022, 8
1-HR	1ST	54.66191	ug/m^3	S_118	980229.92	3742004.77	17.17	0.00	17.17	1/4/2022, 8
1-HR	1ST	61.54309	ug/m^3	S_119	980229.92	3742024.77	17.20	0.00	17.20	1/4/2022, 8
1-HR	1ST	71.57877	ug/m^3	S_120	980229.92	3742044.77	17.62	0.00	17.62	1/4/2022, 8
1-HR	1ST	96.74753	ug/m^3	S_121	980229.92	3742064.77	17.87	0.00	17.87	12/19/2023, 8
1-HR	1ST	45.88013	ug/m^3	S_122	980249.92	3741704.77	16.07	0.00	16.07	1/2/2019, 8
1-HR	1ST	45.89217	ug/m^3	S_123	980249.92	3741724.77	16.05	0.00	16.05	1/2/2019, 8
1-HR	1ST	45.99720	ug/m^3	S_124	980249.92	3741744.77	16.19	0.00	16.19	1/2/2019, 8
1-HR	1ST	46.01153	ug/m^3	S_125	980249.92	3741764.77	16.33	0.00	16.33	1/2/2019, 8
1-HR	1ST	45.86217	ug/m^3	S_126	980249.92	3741784.77	16.45	0.00	16.45	1/2/2019, 8
1-HR	1ST	45.52690	ug/m^3	S_127	980249.92	3741804.77	16.57	0.00	16.57	1/2/2019, 8
1-HR	1ST	45.05827	ug/m^3	S_128	980249.92	3741824.77	16.74	0.00	16.74	1/2/2019, 8
1-HR	1ST	44.48767	ug/m^3	S_129	980249.92	3741844.77	16.95	0.00	16.95	1/2/2019, 8
1-HR	1ST	43.85886	ug/m^3	S_130	980249.92	3741864.77	17.20	0.00	17.20	1/2/2019, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	43.22381	ug/m^3	S_131	980249.92	3741884.77	17.41	0.00	17.41	1/2/2019, 8
1-HR	1ST	42.62699	ug/m^3	S_132	980249.92	3741904.77	17.62	0.00	17.62	1/2/2019, 8
1-HR	1ST	42.10996	ug/m^3	S_133	980249.92	3741924.77	17.91	0.00	17.91	1/2/2019, 8
1-HR	1ST	41.69822	ug/m^3	S_134	980249.92	3741944.77	17.95	0.00	17.95	1/2/2019, 8
1-HR	1ST	43.92937	ug/m^3	S_135	980249.92	3741964.77	17.83	0.00	17.83	1/4/2022, 8
1-HR	1ST	47.12069	ug/m^3	S_136	980249.92	3741984.77	17.44	0.00	17.44	1/4/2022, 8
1-HR	1ST	51.33152	ug/m^3	S_137	980249.92	3742004.77	17.23	0.00	17.23	1/4/2022, 8
1-HR	1ST	56.96789	ug/m^3	S_138	980249.92	3742024.77	17.19	0.00	17.19	1/4/2022, 8
1-HR	1ST	64.96568	ug/m^3	S_139	980249.92	3742044.77	17.55	0.00	17.55	1/4/2022, 8
1-HR	1ST	81.88677	ug/m^3	S_140	980249.92	3742064.77	17.82	0.00	17.82	12/19/2023, 8
1-HR	1ST	116.98536	ug/m^3	S_141	980249.92	3742084.77	17.99	0.00	17.99	12/19/2023, 8
1-HR	1ST	49.87125	ug/m^3	S_142	980269.92	3741684.77	15.98	0.00	15.98	1/2/2019, 8
1-HR	1ST	49.62264	ug/m^3	S_143	980269.92	3741704.77	15.93	0.00	15.93	1/2/2019, 8
1-HR	1ST	49.56293	ug/m^3	S_144	980269.92	3741724.77	16.00	0.00	16.00	1/2/2019, 8
1-HR	1ST	49.62398	ug/m^3	S_145	980269.92	3741744.77	16.14	0.00	16.14	1/2/2019, 8
1-HR	1ST	49.62211	ug/m^3	S_146	980269.92	3741764.77	16.28	0.00	16.28	1/2/2019, 8
1-HR	1ST	49.44410	ug/m^3	S_147	980269.92	3741784.77	16.41	0.00	16.41	1/2/2019, 8
1-HR	1ST	49.03656	ug/m^3	S_148	980269.92	3741804.77	16.54	0.00	16.54	1/2/2019, 8
1-HR	1ST	48.45804	ug/m^3	S_149	980269.92	3741824.77	16.74	0.00	16.74	1/2/2019, 8
1-HR	1ST	47.74054	ug/m^3	S_150	980269.92	3741844.77	16.96	0.00	16.96	1/2/2019, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	46.94492	ug/m^3	S_151	980269.92	3741864.77	17.20	0.00	17.20	1/2/2019, 8
1-HR	1ST	46.14665	ug/m^3	S_152	980269.92	3741884.77	17.42	0.00	17.42	1/2/2019, 8
1-HR	1ST	45.38445	ug/m^3	S_153	980269.92	3741904.77	17.65	0.00	17.65	1/2/2019, 8
1-HR	1ST	44.68501	ug/m^3	S_154	980269.92	3741924.77	17.83	0.00	17.83	1/2/2019, 8
1-HR	1ST	44.09675	ug/m^3	S_155	980269.92	3741944.77	17.87	0.00	17.87	1/2/2019, 8
1-HR	1ST	44.08841	ug/m^3	S_156	980269.92	3741964.77	17.81	0.00	17.81	12/23/2022, 8
1-HR	1ST	45.03775	ug/m^3	S_157	980269.92	3741984.77	17.53	0.00	17.53	1/4/2022, 8
1-HR	1ST	48.49996	ug/m^3	S_158	980269.92	3742004.77	17.37	0.00	17.37	1/4/2022, 8
1-HR	1ST	53.09311	ug/m^3	S_159	980269.92	3742024.77	17.32	0.00	17.32	1/4/2022, 8
1-HR	1ST	59.40916	ug/m^3	S_160	980269.92	3742044.77	17.57	0.00	17.57	1/4/2022, 8
1-HR	1ST	68.94443	ug/m^3	S_161	980269.92	3742064.77	17.80	0.00	17.80	12/19/2023, 8
1-HR	1ST	93.06585	ug/m^3	S_162	980269.92	3742084.77	18.02	0.00	18.02	12/19/2023, 8
1-HR	1ST	138.10285	ug/m^3	S_163	980269.92	3742104.77	18.10	0.00	18.10	12/19/2023, 8
1-HR	1ST	55.04284	ug/m^3	S_164	980289.92	3741684.77	15.88	0.00	19.14	1/2/2019, 8
1-HR	1ST	54.96153	ug/m^3	S_165	980289.92	3741704.77	15.82	0.00	15.82	12/23/2022, 8
1-HR	1ST	55.01964	ug/m^3	S_166	980289.92	3741724.77	15.94	0.00	15.94	12/23/2022, 8
1-HR	1ST	54.19224	ug/m^3	S_167	980289.92	3741744.77	16.09	0.00	16.09	12/23/2022, 8
1-HR	1ST	54.06779	ug/m^3	S_168	980289.92	3741764.77	16.24	0.00	16.24	1/2/2019, 8
1-HR	1ST	53.87001	ug/m^3	S_169	980289.92	3741784.77	16.40	0.00	16.40	1/2/2019, 8
1-HR	1ST	53.39439	ug/m^3	S_170	980289.92	3741804.77	16.58	0.00	16.58	1/2/2019, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	52.64398	ug/m^3	S_171	980289.92	3741824.77	16.80	0.00	16.80	1/2/2019, 8
1-HR	1ST	51.68468	ug/m^3	S_172	980289.92	3741844.77	17.02	0.00	17.02	1/2/2019, 8
1-HR	1ST	50.65103	ug/m^3	S_173	980289.92	3741864.77	17.23	0.00	17.23	1/2/2019, 8
1-HR	1ST	49.63429	ug/m^3	S_174	980289.92	3741884.77	17.46	0.00	17.46	1/2/2019, 8
1-HR	1ST	48.65607	ug/m^3	S_175	980289.92	3741904.77	17.66	0.00	17.66	1/2/2019, 8
1-HR	1ST	47.74028	ug/m^3	S_176	980289.92	3741924.77	17.71	0.00	17.71	1/2/2019, 8
1-HR	1ST	46.95876	ug/m^3	S_177	980289.92	3741944.77	17.76	0.00	17.76	1/2/2019, 8
1-HR	1ST	46.54282	ug/m^3	S_178	980289.92	3741964.77	17.80	0.00	17.80	12/23/2022, 8
1-HR	1ST	47.24350	ug/m^3	S_179	980289.92	3741984.77	17.62	0.00	17.62	12/23/2022, 8
1-HR	1ST	48.44361	ug/m^3	S_180	980289.92	3742004.77	17.48	0.00	17.48	12/23/2022, 8
1-HR	1ST	50.19517	ug/m^3	S_181	980289.92	3742024.77	17.36	0.00	17.36	12/23/2022, 8
1-HR	1ST	54.89014	ug/m^3	S_182	980289.92	3742044.77	17.56	0.00	17.56	1/4/2022, 8
1-HR	1ST	61.64418	ug/m^3	S_183	980289.92	3742064.77	17.78	0.00	17.78	1/4/2022, 8
1-HR	1ST	76.21888	ug/m^3	S_184	980289.92	3742084.77	18.02	0.00	18.02	12/19/2023, 8
1-HR	1ST	103.90744	ug/m^3	S_185	980289.92	3742104.77	18.15	0.00	18.15	12/19/2023, 8
1-HR	1ST	155.66073	ug/m^3	S_186	980289.92	3742124.77	18.24	0.00	18.24	12/19/2023, 8
1-HR	1ST	63.25388	ug/m^3	S_187	980309.92	3741684.77	15.84	0.00	15.84	12/23/2022, 8
1-HR	1ST	64.38024	ug/m^3	S_188	980309.92	3741704.77	15.78	0.00	15.78	12/23/2022, 8
1-HR	1ST	63.12063	ug/m^3	S_189	980309.92	3741724.77	15.91	0.00	15.91	12/23/2022, 8
1-HR	1ST	61.54697	ug/m^3	S_190	980309.92	3741744.77	16.07	0.00	16.07	12/23/2022, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	60.17245	ug/m^3	S_191	980309.92	3741764.77	16.25	0.00	16.25	12/23/2022, 8
1-HR	1ST	59.50485	ug/m^3	S_192	980309.92	3741784.77	16.44	0.00	16.44	1/2/2019, 8
1-HR	1ST	58.94376	ug/m^3	S_193	980309.92	3741804.77	16.66	0.00	16.66	1/2/2019, 8
1-HR	1ST	57.92486	ug/m^3	S_194	980309.92	3741824.77	16.89	0.00	16.89	1/2/2019, 8
1-HR	1ST	56.59689	ug/m^3	S_195	980309.92	3741844.77	17.13	0.00	17.13	1/2/2019, 8
1-HR	1ST	55.19632	ug/m^3	S_196	980309.92	3741864.77	17.37	0.00	17.37	1/2/2019, 8
1-HR	1ST	53.86850	ug/m^3	S_197	980309.92	3741884.77	17.55	0.00	17.55	1/2/2019, 8
1-HR	1ST	52.59222	ug/m^3	S_198	980309.92	3741904.77	17.68	0.00	17.68	1/2/2019, 8
1-HR	1ST	51.38458	ug/m^3	S_199	980309.92	3741924.77	17.67	0.00	17.67	1/2/2019, 8
1-HR	1ST	50.35154	ug/m^3	S_200	980309.92	3741944.77	17.76	0.00	17.76	1/2/2019, 8
1-HR	1ST	49.57673	ug/m^3	S_201	980309.92	3741964.77	17.93	0.00	17.93	1/2/2019, 8
1-HR	1ST	49.95912	ug/m^3	S_202	980309.92	3741984.77	17.75	0.00	17.75	12/23/2022, 8
1-HR	1ST	51.11399	ug/m^3	S_203	980309.92	3742004.77	17.56	0.00	17.56	12/23/2022, 8
1-HR	1ST	52.95045	ug/m^3	S_204	980309.92	3742024.77	17.38	0.00	17.38	12/23/2022, 8
1-HR	1ST	55.57513	ug/m^3	S_205	980309.92	3742044.77	17.53	0.00	17.53	12/23/2022, 8
1-HR	1ST	58.96017	ug/m^3	S_206	980309.92	3742064.77	17.73	0.00	17.73	12/23/2022, 8
1-HR	1ST	64.73979	ug/m^3	S_207	980309.92	3742084.77	17.96	0.00	17.96	12/19/2023, 8
1-HR	1ST	83.73373	ug/m^3	S_208	980309.92	3742104.77	18.13	0.00	18.13	12/19/2023, 8
1-HR	1ST	113.22692	ug/m^3	S_209	980309.92	3742124.77	18.25	0.00	18.25	12/19/2023, 8
1-HR	1ST	163.26771	ug/m^3	S_210	980309.92	3742144.77	18.25	0.00	18.25	12/19/2023, 8

Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	78.93590	ug/m^3	S_211	980329.92	3741684.77	16.06	0.00	16.06	12/23/2022, 8
1-HR	1ST	77.09042	ug/m^3	S_212	980329.92	3741704.77	16.00	0.00	16.00	12/23/2022, 8
1-HR	1ST	74.20822	ug/m^3	S_213	980329.92	3741724.77	16.05	0.00	16.05	12/23/2022, 8
1-HR	1ST	71.68325	ug/m^3	S_214	980329.92	3741744.77	16.15	0.00	16.15	12/23/2022, 8
1-HR	1ST	69.61374	ug/m^3	S_215	980329.92	3741764.77	16.32	0.00	16.32	12/23/2022, 8
1-HR	1ST	67.75282	ug/m^3	S_216	980329.92	3741784.77	16.51	0.00	16.51	12/23/2022, 8
1-HR	1ST	66.19916	ug/m^3	S_217	980329.92	3741804.77	16.74	0.00	16.74	1/2/2019, 8
1-HR	1ST	64.81337	ug/m^3	S_218	980329.92	3741824.77	17.00	0.00	17.00	1/2/2019, 8
1-HR	1ST	62.85619	ug/m^3	S_219	980329.92	3741844.77	17.28	0.00	17.28	1/2/2019, 8
1-HR	1ST	60.91863	ug/m^3	S_220	980329.92	3741864.77	17.57	0.00	17.57	1/2/2019, 8
1-HR	1ST	59.14070	ug/m^3	S_221	980329.92	3741884.77	17.75	0.00	17.75	1/2/2019, 8
1-HR	1ST	57.43800	ug/m^3	S_222	980329.92	3741904.77	17.84	0.00	17.84	1/2/2019, 8
1-HR	1ST	55.82125	ug/m^3	S_223	980329.92	3741924.77	17.88	0.00	17.88	1/2/2019, 8
1-HR	1ST	54.40595	ug/m^3	S_224	980329.92	3741944.77	18.03	0.00	18.03	1/2/2019, 8
1-HR	1ST	53.34563	ug/m^3	S_225	980329.92	3741964.77	18.30	0.00	18.30	1/2/2019, 8
1-HR	1ST	53.13320	ug/m^3	S_226	980329.92	3741984.77	17.94	0.00	17.94	12/23/2022, 8
1-HR	1ST	54.16685	ug/m^3	S_227	980329.92	3742004.77	17.62	0.00	17.62	12/23/2022, 8
1-HR	1ST	56.06208	ug/m^3	S_228	980329.92	3742024.77	17.39	0.00	17.39	12/23/2022, 8
1-HR	1ST	58.96337	ug/m^3	S_229	980329.92	3742044.77	17.47	0.00	17.47	12/23/2022, 8
1-HR	1ST	62.85778	ug/m^3	S_230	980329.92	3742064.77	17.64	0.00	17.64	12/23/2022, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	67.71078	ug/m^3	S_231	980329.92	3742084.77	17.88	0.00	17.88	12/23/2022, 8
1-HR	1ST	73.59194	ug/m^3	S_232	980329.92	3742104.77	18.07	0.00	18.07	12/23/2022, 8
1-HR	1ST	91.77143	ug/m^3	S_233	980329.92	3742124.77	18.21	0.00	18.21	12/19/2023, 8
1-HR	1ST	119.49585	ug/m^3	S_234	980329.92	3742144.77	18.22	0.00	18.22	12/19/2023, 8
1-HR	1ST	162.70385	ug/m^3	S_235	980329.92	3742164.77	18.20	0.00	18.20	12/19/2023, 8
1-HR	1ST	85.33305	ug/m^3	S_236	980349.92	3741744.77	16.24	0.00	16.24	12/23/2022, 8
1-HR	1ST	82.37119	ug/m^3	S_237	980349.92	3741764.77	16.37	0.00	16.37	12/23/2022, 8
1-HR	1ST	79.85052	ug/m^3	S_238	980349.92	3741784.77	16.56	0.00	16.56	12/23/2022, 8
1-HR	1ST	77.48805	ug/m^3	S_239	980349.92	3741804.77	16.80	0.00	16.80	12/23/2022, 8
1-HR	1ST	74.64911	ug/m^3	S_240	980349.92	3741824.77	17.05	0.00	17.05	12/23/2022, 8
1-HR	1ST	71.15272	ug/m^3	S_241	980349.92	3741844.77	17.32	0.00	17.32	1/2/2019, 8
1-HR	1ST	68.36260	ug/m^3	S_242	980349.92	3741864.77	17.60	0.00	17.60	1/2/2019, 8
1-HR	1ST	65.91327	ug/m^3	S_243	980349.92	3741884.77	17.79	0.00	17.79	1/2/2019, 8
1-HR	1ST	63.61192	ug/m^3	S_244	980349.92	3741904.77	17.90	0.00	17.90	1/2/2019, 8
1-HR	1ST	61.37186	ug/m^3	S_245	980349.92	3741924.77	17.84	0.00	17.84	1/2/2019, 8
1-HR	1ST	59.33239	ug/m^3	S_246	980349.92	3741944.77	17.81	0.00	17.81	1/2/2019, 8
1-HR	1ST	57.75937	ug/m^3	S_247	980349.92	3741964.77	17.84	0.00	17.84	1/2/2019, 8
1-HR	1ST	56.92677	ug/m^3	S_248	980349.92	3741984.77	17.73	0.00	17.73	12/23/2022, 8
1-HR	1ST	57.69892	ug/m^3	S_249	980349.92	3742004.77	17.58	0.00	17.58	12/23/2022, 8
1-HR	1ST	59.60277	ug/m^3	S_250	980349.92	3742024.77	17.33	0.00	17.33	12/23/2022, 8

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PM2.5 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	62.81463	ug/m^3	S_251	980349.92	3742044.77	17.37	0.00	17.37	12/23/2022, 8
1-HR	1ST	67.33700	ug/m^3	S_252	980349.92	3742064.77	17.53	0.00	17.53	12/23/2022, 8
1-HR	1ST	73.16480	ug/m^3	S_253	980349.92	3742084.77	17.81	0.00	17.81	12/23/2022, 8
1-HR	1ST	80.31365	ug/m^3	S_254	980349.92	3742104.77	17.98	0.00	17.98	12/23/2022, 8
1-HR	1ST	89.12483	ug/m^3	S_255	980349.92	3742124.77	18.10	0.00	18.10	12/23/2022, 8
1-HR	1ST	100.80919	ug/m^3	S_256	980349.92	3742144.77	18.16	0.00	18.16	12/19/2023, 8
1-HR	1ST	122.03523	ug/m^3	S_257	980349.92	3742164.77	18.18	0.00	18.18	12/19/2023, 8
1-HR	1ST	89.24628	ug/m^3	S_258	980369.92	3741824.77	17.01	0.00	17.01	12/23/2022, 8
1-HR	1ST	84.07971	ug/m^3	S_259	980369.92	3741844.77	17.24	0.00	17.24	12/23/2022, 8
1-HR	1ST	78.57363	ug/m^3	S_260	980369.92	3741864.77	17.49	0.00	17.49	12/23/2022, 8
1-HR	1ST	74.94949	ug/m^3	S_261	980369.92	3741884.77	17.68	0.00	17.68	1/2/2019, 8
1-HR	1ST	71.77108	ug/m^3	S_262	980369.92	3741904.77	17.82	0.00	17.82	1/2/2019, 8
1-HR	1ST	68.63018	ug/m^3	S_263	980369.92	3741924.77	17.71	0.00	17.71	1/2/2019, 8
1-HR	1ST	65.60093	ug/m^3	S_264	980369.92	3741944.77	17.60	0.00	17.60	1/2/2019, 8
1-HR	1ST	63.15264	ug/m^3	S_265	980369.92	3741964.77	17.52	0.00	17.52	1/2/2019, 8
1-HR	1ST	61.64823	ug/m^3	S_266	980369.92	3741984.77	17.46	0.00	17.46	1/2/2019, 8
1-HR	1ST	61.86203	ug/m^3	S_267	980369.92	3742004.77	17.39	0.00	17.39	12/23/2022, 8
1-HR	1ST	63.69175	ug/m^3	S_268	980369.92	3742024.77	17.26	0.00	17.26	12/23/2022, 8
1-HR	1ST	67.26175	ug/m^3	S_269	980369.92	3742044.77	17.32	0.00	17.32	12/23/2022, 8
1-HR	1ST	72.58228	ug/m^3	S_270	980369.92	3742064.77	17.47	0.00	17.47	12/23/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	79.67882	ug/m^3	S_271	980369.92	3742084.77	17.75	0.00	17.75	12/23/2022, 8
1-HR	1ST	88.54776	ug/m^3	S_272	980369.92	3742104.77	17.92	0.00	17.92	12/23/2022, 8
1-HR	1ST	99.70905	ug/m^3	S_273	980369.92	3742124.77	18.02	0.00	18.02	12/23/2022, 8
1-HR	1ST	114.03082	ug/m^3	S_274	980369.92	3742144.77	18.07	0.00	18.07	12/23/2022, 8
1-HR	1ST	87.26175	ug/m^3	S_275	980389.92	3741884.77	17.46	0.00	17.46	1/2/2019, 8
1-HR	1ST	82.94565	ug/m^3	S_276	980389.92	3741904.77	17.62	0.00	17.62	1/2/2019, 8
1-HR	1ST	78.55141	ug/m^3	S_277	980389.92	3741924.77	17.52	0.00	17.52	1/2/2019, 8
1-HR	1ST	73.97577	ug/m^3	S_278	980389.92	3741944.77	17.34	0.00	17.34	1/2/2019, 8
1-HR	1ST	69.93985	ug/m^3	S_279	980389.92	3741964.77	17.07	0.00	17.07	1/2/2019, 8
1-HR	1ST	67.41051	ug/m^3	S_280	980389.92	3741984.77	17.06	0.00	17.06	12/23/2022, 8
1-HR	1ST	66.88432	ug/m^3	S_281	980389.92	3742004.77	17.13	0.00	17.13	12/23/2022, 8
1-HR	1ST	68.48209	ug/m^3	S_282	980389.92	3742024.77	17.14	0.00	17.14	12/23/2022, 8
1-HR	1ST	72.45078	ug/m^3	S_283	980389.92	3742044.77	17.26	0.00	17.26	12/23/2022, 8
1-HR	1ST	78.78460	ug/m^3	S_284	980389.92	3742064.77	17.43	0.00	17.43	12/23/2022, 8
1-HR	1ST	87.56856	ug/m^3	S_285	980389.92	3742084.77	17.71	0.00	17.71	12/23/2022, 8
1-HR	1ST	98.79930	ug/m^3	S_286	980389.92	3742104.77	17.88	0.00	17.88	12/23/2022, 8
1-HR	1ST	113.24722	ug/m^3	S_287	980389.92	3742124.77	17.96	0.00	17.96	12/23/2022, 8
1-HR	1ST	85.79650	ug/m^3	S_288	980409.92	3741944.77	17.05	0.00	17.05	1/2/2019, 8
1-HR	1ST	78.86443	ug/m^3	S_289	980409.92	3741964.77	16.48	0.00	16.48	12/23/2022, 8
1-HR	1ST	74.74689	ug/m^3	S_290	980409.92	3741984.77	16.56	0.00	16.56	12/23/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	73.13189	ug/m^3	S_291	980409.92	3742004.77	16.85	0.00	16.85	12/23/2022, 8
1-HR	1ST	74.23021	ug/m^3	S_292	980409.92	3742024.77	16.99	0.00	16.99	12/23/2022, 8
1-HR	1ST	78.58482	ug/m^3	S_293	980409.92	3742044.77	17.19	0.00	17.19	12/23/2022, 8
1-HR	1ST	86.25293	ug/m^3	S_294	980409.92	3742064.77	17.43	0.00	17.43	12/23/2022, 8
1-HR	1ST	97.31792	ug/m^3	S_295	980409.92	3742084.77	17.69	0.00	17.69	12/23/2022, 8
1-HR	1ST	111.72203	ug/m^3	S_296	980409.92	3742104.77	17.82	0.00	17.82	12/23/2022, 8
1-HR	1ST	130.36745	ug/m^3	S_297	980409.92	3742124.77	17.86	0.00	17.86	12/23/2022, 8
1-HR	1ST	94.43189	ug/m^3	S_298	980429.92	3741964.77	16.39	0.00	16.39	1/18/2021, 8
1-HR	1ST	84.58148	ug/m^3	S_299	980429.92	3741984.77	16.38	0.00	16.38	12/23/2022, 8
1-HR	1ST	81.04146	ug/m^3	S_300	980429.92	3742004.77	16.60	0.00	16.60	12/23/2022, 8
1-HR	1ST	81.32186	ug/m^3	S_301	980429.92	3742024.77	16.84	0.00	16.84	12/23/2022, 8
1-HR	1ST	85.99887	ug/m^3	S_302	980429.92	3742044.77	17.14	0.00	17.14	12/23/2022, 8
1-HR	1ST	95.41269	ug/m^3	S_303	980429.92	3742064.77	17.46	0.00	17.46	12/23/2022, 8
1-HR	1ST	109.54642	ug/m^3	S_304	980429.92	3742084.77	17.66	0.00	17.66	12/23/2022, 8
1-HR	1ST	127.98572	ug/m^3	S_305	980429.92	3742104.77	17.75	0.00	17.75	12/23/2022, 8
1-HR	1ST	92.19637	ug/m^3	S_306	980449.92	3742004.77	16.68	0.00	16.68	12/23/2022, 8
1-HR	1ST	90.61280	ug/m^3	S_307	980449.92	3742024.77	16.90	0.00	16.90	12/23/2022, 8
1-HR	1ST	95.21713	ug/m^3	S_308	980449.92	3742044.77	17.15	0.00	17.15	12/23/2022, 8
1-HR	1ST	106.72268	ug/m^3	S_309	980449.92	3742064.77	17.44	0.00	17.44	12/23/2022, 8
1-HR	1ST	124.70480	ug/m^3	S_310	980449.92	3742084.77	17.53	0.00	17.53	12/23/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	102.78800	ug/m^3	S_311	980469.92	3742024.77	16.97	0.00	16.97	12/23/2022, 8
1-HR	1ST	106.66450	ug/m^3	S_312	980469.92	3742044.77	17.17	0.00	17.17	12/23/2022, 8
1-HR	1ST	120.81877	ug/m^3	S_313	980469.92	3742064.77	17.36	0.00	17.36	12/23/2022, 8
1-HR	1ST	142.84387	ug/m^3	S_314	980469.92	3742084.77	17.43	0.00	17.43	12/23/2022, 8
1-HR	1ST	119.90889	ug/m^3	S_315	980489.92	3742044.77	17.16	0.00	17.16	12/23/2022, 8
1-HR	1ST	138.25844	ug/m^3	S_316	980489.92	3742064.77	17.28	0.00	17.28	12/23/2022, 8
1-HR	1ST	116.47110	ug/m^3	W_001	980404.60	3742206.17	18.79	0.00	18.79	2/5/2021, 8
1-HR	1ST	130.85051	ug/m^3	W_002	980395.70	3742240.27	18.75	0.00	18.75	2/5/2021, 8
1-HR	1ST	119.43463	ug/m^3	W_003	980504.67	3742161.69	18.52	0.00	18.52	2/5/2021, 8
1-HR	1ST	103.18413	ug/m^3	W_004	980443.89	3742297.35	19.09	0.00	19.09	2/5/2021, 8
1-HR	1ST	120.57211	ug/m^3	W_005	980480.95	3742379.63	18.99	0.00	18.99	2/5/2021, 8
1-HR	1ST	83.67594	ug/m^3	W_006	980519.50	3742227.67	18.81	0.00	18.81	2/5/2021, 8
1-HR	1ST	77.92419	ug/m^3	W_007	980546.18	3742255.09	19.11	0.00	19.11	2/5/2021, 8
1-HR	1ST	70.59150	ug/m^3	W_008	980555.82	3742291.42	19.22	0.00	19.22	2/5/2021, 8
1-HR	1ST	70.52857	ug/m^3	W_009	980578.06	3742308.47	19.33	0.00	19.33	2/5/2021, 8
1-HR	1ST	67.18574	ug/m^3	W_010	980601.04	3742345.53	19.42	0.00	19.42	2/5/2021, 8
1-HR	1ST	127.94849	ug/m^3	W_011	980500.96	3742427.81	19.03	0.00	19.03	2/5/2021, 8
1-HR	1ST	113.47342	ug/m^3	W_012	980518.78	3742452.39	19.29	0.00	19.29	2/5/2021, 8
1-HR	1ST	63.31196	ug/m^3	W_013	980625.18	3742376.52	19.47	0.00	19.47	2/5/2021, 8
1-HR	1ST	57.78446	ug/m^3	W_014	980640.01	3742414.89	19.45	0.00	19.45	2/5/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	82.94845	ug/m^3	W_015	980561.52	3742496.87	19.93	0.00	19.93	2/5/2021, 8
1-HR	1ST	51.47243	ug/m^3	W_016	980665.30	3742472.45	19.69	0.00	19.69	2/5/2021, 8
1-HR	1ST	86.50632	ug/m^3	W_017	980513.48	3742577.06	19.19	0.00	19.19	2/5/2021, 8
1-HR	1ST	60.29512	ug/m^3	W_018	979899.40	3742334.47	19.24	0.00	19.24	12/23/2022, 8
1-HR	1ST	74.08913	ug/m^3	W_019	979936.77	3742099.68	17.99	0.00	17.99	12/23/2022, 8
1-HR	1ST	46.11247	ug/m^3	W_020	979761.24	3742285.82	19.04	0.00	19.04	12/23/2022, 8
1-HR	1ST	44.94864	ug/m^3	W_021	979733.51	3742181.86	18.30	0.00	18.30	12/11/2020, 8
1-HR	1ST	75.43839	ug/m^3	W_022	979924.14	3742077.70	17.92	0.00	17.92	12/23/2022, 8
1-HR	1ST	50.39581	ug/m^3	W_023	979822.04	3741883.42	17.43	0.00	17.43	1/2/2019, 8
1-HR	1ST	42.91136	ug/m^3	W_024	979674.08	3742101.64	18.09	0.00	18.09	12/11/2020, 8
1-HR	1ST	76.00560	ug/m^3	W_025	979851.61	3742394.38	19.48	0.00	19.48	12/23/2022, 8
1-HR	1ST	63.59662	ug/m^3	W_026	979873.78	3742356.02	19.42	0.00	19.42	12/23/2022, 8
1-HR	1ST	37.50913	ug/m^3	W_027	979586.82	3742234.43	19.12	0.00	19.12	12/11/2020, 8
1-HR	1ST	38.65541	ug/m^3	W_028	979600.20	3742183.36	18.86	0.00	18.86	12/11/2020, 8
1-HR	1ST	36.62481	ug/m^3	W_029	979550.35	3742193.09	18.98	0.00	18.98	12/11/2020, 8
1-HR	1ST	39.90873	ug/m^3	W_030	979618.44	3742121.35	18.69	0.00	18.69	12/11/2020, 8
1-HR	1ST	58.76679	ug/m^3	W_031	979858.81	3741944.73	17.56	0.00	17.56	1/2/2019, 8
1-HR	1ST	43.52462	ug/m^3	W_032	979760.89	3741849.21	17.63	0.00	17.63	1/2/2019, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.08970	ug/m^3	RES_001	979660.30	3742498.81	19.96	0.00	19.96	
PERIOD		0.08741	ug/m^3	RES_002	979660.30	3742518.81	20.04	0.00	20.04	
PERIOD		0.08490	ug/m^3	RES_003	979660.30	3742538.81	20.10	0.00	20.10	
PERIOD		0.08218	ug/m^3	RES_004	979660.30	3742558.81	20.16	0.00	20.16	
PERIOD		0.07926	ug/m^3	RES_005	979660.30	3742578.81	20.25	0.00	20.25	
PERIOD		0.07623	ug/m^3	RES_006	979660.30	3742598.81	20.26	0.00	20.26	
PERIOD		0.07310	ug/m^3	RES_007	979660.30	3742618.81	20.30	0.00	20.30	
PERIOD		0.06989	ug/m^3	RES_008	979660.30	3742638.81	20.42	0.00	20.42	
PERIOD		0.06670	ug/m^3	RES_009	979660.30	3742658.81	20.49	0.00	20.49	
PERIOD		0.06357	ug/m^3	RES_010	979660.30	3742678.81	20.53	0.00	20.53	
PERIOD		0.06054	ug/m^3	RES_011	979660.30	3742698.81	20.51	0.00	20.51	
PERIOD		0.05754	ug/m^3	RES_012	979660.30	3742718.81	20.73	0.00	20.73	
PERIOD		0.05464	ug/m^3	RES_013	979660.30	3742738.81	21.08	0.00	21.08	
PERIOD		0.05198	ug/m^3	RES_014	979660.30	3742758.81	21.12	0.00	21.12	
PERIOD		0.04950	ug/m^3	RES_015	979660.30	3742778.81	21.10	0.00	21.10	
PERIOD		0.09523	ug/m^3	RES_016	979680.30	3742498.81	20.06	0.00	20.06	
PERIOD		0.09246	ug/m^3	RES_017	979680.30	3742518.81	20.14	0.00	20.14	
PERIOD		0.08946	ug/m^3	RES_018	979680.30	3742538.81	20.21	0.00	20.21	
PERIOD		0.08624	ug/m^3	RES_019	979680.30	3742558.81	20.28	0.00	20.28	
PERIOD		0.08287	ug/m^3	RES_020	979680.30	3742578.81	20.34	0.00	20.34	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.07943	ug/m^3	RES_021	979680.30	3742598.81	20.33	0.00	20.33	
PERIOD		0.07591	ug/m^3	RES_022	979680.30	3742618.81	20.35	0.00	20.35	
PERIOD		0.07232	ug/m^3	RES_023	979680.30	3742638.81	20.51	0.00	20.51	
PERIOD		0.06879	ug/m^3	RES_024	979680.30	3742658.81	20.64	0.00	20.64	
PERIOD		0.06538	ug/m^3	RES_025	979680.30	3742678.81	20.73	0.00	20.73	
PERIOD		0.06213	ug/m^3	RES_026	979680.30	3742698.81	20.68	0.00	20.68	
PERIOD		0.05893	ug/m^3	RES_027	979680.30	3742718.81	20.93	0.00	20.93	
PERIOD		0.05586	ug/m^3	RES_028	979680.30	3742738.81	21.36	0.00	21.36	
PERIOD		0.05311	ug/m^3	RES_029	979680.30	3742758.81	21.30	0.00	21.30	
PERIOD		0.05057	ug/m^3	RES_030	979680.30	3742778.81	21.17	0.00	21.17	
PERIOD		0.04823	ug/m^3	RES_031	979680.30	3742798.81	20.96	0.00	20.96	
PERIOD		0.10109	ug/m^3	RES_032	979700.30	3742498.81	20.19	0.00	20.19	
PERIOD		0.09776	ug/m^3	RES_033	979700.30	3742518.81	20.27	0.00	20.27	
PERIOD		0.09419	ug/m^3	RES_034	979700.30	3742538.81	20.36	0.00	20.36	
PERIOD		0.09044	ug/m^3	RES_035	979700.30	3742558.81	20.44	0.00	20.44	
PERIOD		0.08658	ug/m^3	RES_036	979700.30	3742578.81	20.47	0.00	20.47	
PERIOD		0.08267	ug/m^3	RES_037	979700.30	3742598.81	20.47	0.00	20.47	
PERIOD		0.07873	ug/m^3	RES_038	979700.30	3742618.81	20.50	0.00	20.50	
PERIOD		0.07476	ug/m^3	RES_039	979700.30	3742638.81	20.68	0.00	20.68	
PERIOD		0.07091	ug/m^3	RES_040	979700.30	3742658.81	20.81	0.00	20.81	

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PERIOD		0.06723	ug/m^3	RES_041	979700.30	3742678.81	20.90	0.00	20.90	
PERIOD		0.06377	ug/m^3	RES_042	979700.30	3742698.81	20.85	0.00	20.85	
PERIOD		0.06040	ug/m^3	RES_043	979700.30	3742718.81	21.07	0.00	21.07	
PERIOD		0.05718	ug/m^3	RES_044	979700.30	3742738.81	21.49	0.00	21.49	
PERIOD		0.05434	ug/m^3	RES_045	979700.30	3742758.81	21.39	0.00	21.39	
PERIOD		0.05172	ug/m^3	RES_046	979700.30	3742778.81	21.24	0.00	21.24	
PERIOD		0.04930	ug/m^3	RES_047	979700.30	3742798.81	21.05	0.00	21.05	
PERIOD		0.10731	ug/m^3	RES_048	979720.30	3742498.81	20.32	0.00	20.32	
PERIOD		0.10333	ug/m^3	RES_049	979720.30	3742518.81	20.42	0.00	20.42	
PERIOD		0.09914	ug/m^3	RES_050	979720.30	3742538.81	20.51	0.00	20.51	
PERIOD		0.09480	ug/m^3	RES_051	979720.30	3742558.81	20.58	0.00	20.58	
PERIOD		0.09041	ug/m^3	RES_052	979720.30	3742578.81	20.59	0.00	20.59	
PERIOD		0.08600	ug/m^3	RES_053	979720.30	3742598.81	20.61	0.00	20.61	
PERIOD		0.08161	ug/m^3	RES_054	979720.30	3742618.81	20.65	0.00	20.65	
PERIOD		0.07726	ug/m^3	RES_055	979720.30	3742638.81	20.85	0.00	20.85	
PERIOD		0.07309	ug/m^3	RES_056	979720.30	3742658.81	20.98	0.00	20.98	
PERIOD		0.06915	ug/m^3	RES_057	979720.30	3742678.81	21.05	0.00	21.05	
PERIOD		0.06546	ug/m^3	RES_058	979720.30	3742698.81	21.03	0.00	21.03	
PERIOD		0.06194	ug/m^3	RES_059	979720.30	3742718.81	21.21	0.00	21.21	
PERIOD		0.05859	ug/m^3	RES_060	979720.30	3742738.81	21.59	0.00	21.59	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.05565	ug/m^3	RES_061	979720.30	3742758.81	21.48	0.00	21.48	
PERIOD		0.05295	ug/m^3	RES_062	979720.30	3742778.81	21.36	0.00	21.36	
PERIOD		0.11844	ug/m^3	RES_063	979740.30	3742478.81	20.28	0.00	20.28	
PERIOD		0.11393	ug/m^3	RES_064	979740.30	3742498.81	20.42	0.00	20.42	
PERIOD		0.10922	ug/m^3	RES_065	979740.30	3742518.81	20.52	0.00	20.52	
PERIOD		0.10433	ug/m^3	RES_066	979740.30	3742538.81	20.61	0.00	20.61	
PERIOD		0.09935	ug/m^3	RES_067	979740.30	3742558.81	20.68	0.00	20.68	
PERIOD		0.09437	ug/m^3	RES_068	979740.30	3742578.81	20.70	0.00	20.70	
PERIOD		0.08943	ug/m^3	RES_069	979740.30	3742598.81	20.74	0.00	20.74	
PERIOD		0.08458	ug/m^3	RES_070	979740.30	3742618.81	20.80	0.00	20.80	
PERIOD		0.07983	ug/m^3	RES_071	979740.30	3742638.81	21.00	0.00	21.00	
PERIOD		0.07535	ug/m^3	RES_072	979740.30	3742658.81	21.11	0.00	21.11	
PERIOD		0.07117	ug/m^3	RES_073	979740.30	3742678.81	21.15	0.00	21.15	
PERIOD		0.06725	ug/m^3	RES_074	979740.30	3742698.81	21.19	0.00	21.19	
PERIOD		0.06357	ug/m^3	RES_075	979740.30	3742718.81	21.35	0.00	21.35	
PERIOD		0.06011	ug/m^3	RES_076	979740.30	3742738.81	21.67	0.00	21.67	
PERIOD		0.05708	ug/m^3	RES_077	979740.30	3742758.81	21.55	0.00	21.55	
PERIOD		0.05431	ug/m^3	RES_078	979740.30	3742778.81	21.39	0.00	21.39	
PERIOD		0.12633	ug/m^3	RES_079	979760.30	3742478.81	20.37	0.00	20.37	
PERIOD		0.12102	ug/m^3	RES_080	979760.30	3742498.81	20.44	0.00	20.44	

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PERIOD		0.11548	ug/m^3	RES_081	979760.30	3742518.81	20.54	0.00	20.54	
PERIOD		0.10982	ug/m^3	RES_082	979760.30	3742538.81	20.64	0.00	20.64	
PERIOD		0.10411	ug/m^3	RES_083	979760.30	3742558.81	20.74	0.00	20.74	
PERIOD		0.09848	ug/m^3	RES_084	979760.30	3742578.81	20.80	0.00	20.80	
PERIOD		0.09296	ug/m^3	RES_085	979760.30	3742598.81	20.87	0.00	20.87	
PERIOD		0.08762	ug/m^3	RES_086	979760.30	3742618.81	20.96	0.00	20.96	
PERIOD		0.08249	ug/m^3	RES_087	979760.30	3742638.81	21.15	0.00	21.15	
PERIOD		0.07770	ug/m^3	RES_088	979760.30	3742658.81	21.25	0.00	21.25	
PERIOD		0.07329	ug/m^3	RES_089	979760.30	3742678.81	21.25	0.00	21.25	
PERIOD		0.06915	ug/m^3	RES_090	979760.30	3742698.81	21.33	0.00	21.33	
PERIOD		0.06531	ug/m^3	RES_091	979760.30	3742718.81	21.49	0.00	21.49	
PERIOD		0.06176	ug/m^3	RES_092	979760.30	3742738.81	21.72	0.00	21.72	
PERIOD		0.05863	ug/m^3	RES_093	979760.30	3742758.81	21.61	0.00	21.61	
PERIOD		0.05579	ug/m^3	RES_094	979760.30	3742778.81	21.46	0.00	21.46	
PERIOD		0.13480	ug/m^3	RES_095	979780.30	3742478.81	20.44	0.00	20.44	
PERIOD		0.12851	ug/m^3	RES_096	979780.30	3742498.81	20.50	0.00	20.50	
PERIOD		0.12209	ug/m^3	RES_097	979780.30	3742518.81	20.56	0.00	20.56	
PERIOD		0.11556	ug/m^3	RES_098	979780.30	3742538.81	20.66	0.00	20.66	
PERIOD		0.10909	ug/m^3	RES_099	979780.30	3742558.81	20.77	0.00	20.77	
PERIOD		0.10278	ug/m^3	RES_100	979780.30	3742578.81	20.84	0.00	20.84	

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PERIOD		0.09665	ug/m^3	RES_101	979780.30	3742598.81	20.96	0.00	20.96	
PERIOD		0.09078	ug/m^3	RES_102	979780.30	3742618.81	21.13	0.00	21.13	
PERIOD		0.08525	ug/m^3	RES_103	979780.30	3742638.81	21.32	0.00	21.32	
PERIOD		0.08017	ug/m^3	RES_104	979780.30	3742658.81	21.40	0.00	21.40	
PERIOD		0.07553	ug/m^3	RES_105	979780.30	3742678.81	21.35	0.00	21.35	
PERIOD		0.07120	ug/m^3	RES_106	979780.30	3742698.81	21.44	0.00	21.44	
PERIOD		0.06722	ug/m^3	RES_107	979780.30	3742718.81	21.57	0.00	21.57	
PERIOD		0.06359	ug/m^3	RES_108	979780.30	3742738.81	21.71	0.00	21.71	
PERIOD		0.06036	ug/m^3	RES_109	979780.30	3742758.81	21.60	0.00	21.60	
PERIOD		0.05742	ug/m^3	RES_110	979780.30	3742778.81	21.48	0.00	21.48	
PERIOD		0.14384	ug/m^3	RES_111	979800.30	3742478.81	20.53	0.00	20.53	
PERIOD		0.13645	ug/m^3	RES_112	979800.30	3742498.81	20.59	0.00	20.59	
PERIOD		0.12901	ug/m^3	RES_113	979800.30	3742518.81	20.62	0.00	20.62	
PERIOD		0.12155	ug/m^3	RES_114	979800.30	3742538.81	20.73	0.00	20.73	
PERIOD		0.11418	ug/m^3	RES_115	979800.30	3742558.81	20.91	0.00	20.91	
PERIOD		0.10715	ug/m^3	RES_116	979800.30	3742578.81	21.00	0.00	21.00	
PERIOD		0.10044	ug/m^3	RES_117	979800.30	3742598.81	21.10	0.00	21.10	
PERIOD		0.09412	ug/m^3	RES_118	979800.30	3742618.81	21.22	0.00	21.22	
PERIOD		0.08820	ug/m^3	RES_119	979800.30	3742638.81	21.42	0.00	21.42	
PERIOD		0.08280	ug/m^3	RES_120	979800.30	3742658.81	21.51	0.00	21.51	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.07796	ug/m^3	RES_121	979800.30	3742678.81	21.41	0.00	21.41	
PERIOD		0.07345	ug/m^3	RES_122	979800.30	3742698.81	21.47	0.00	21.47	
PERIOD		0.06934	ug/m^3	RES_123	979800.30	3742718.81	21.56	0.00	21.56	
PERIOD		0.06560	ug/m^3	RES_124	979800.30	3742738.81	21.62	0.00	21.62	
PERIOD		0.06228	ug/m^3	RES_125	979800.30	3742758.81	21.50	0.00	21.50	
PERIOD		0.05925	ug/m^3	RES_126	979800.30	3742778.81	21.39	0.00	21.39	
PERIOD		0.15339	ug/m^3	RES_127	979820.30	3742478.81	20.72	0.00	20.72	
PERIOD		0.14475	ug/m^3	RES_128	979820.30	3742498.81	20.79	0.00	20.79	
PERIOD		0.13618	ug/m^3	RES_129	979820.30	3742518.81	20.81	0.00	20.81	
PERIOD		0.12772	ug/m^3	RES_130	979820.30	3742538.81	20.90	0.00	20.90	
PERIOD		0.11951	ug/m^3	RES_131	979820.30	3742558.81	21.04	0.00	21.04	
PERIOD		0.11177	ug/m^3	RES_132	979820.30	3742578.81	21.08	0.00	21.08	
PERIOD		0.10450	ug/m^3	RES_133	979820.30	3742598.81	21.14	0.00	21.14	
PERIOD		0.09770	ug/m^3	RES_134	979820.30	3742618.81	21.24	0.00	21.24	
PERIOD		0.09136	ug/m^3	RES_135	979820.30	3742638.81	21.47	0.00	21.47	
PERIOD		0.08566	ug/m^3	RES_136	979820.30	3742658.81	21.57	0.00	21.57	
PERIOD		0.08062	ug/m^3	RES_137	979820.30	3742678.81	21.38	0.00	21.38	
PERIOD		0.07596	ug/m^3	RES_138	979820.30	3742698.81	21.37	0.00	21.37	
PERIOD		0.07170	ug/m^3	RES_139	979820.30	3742718.81	21.41	0.00	21.41	
PERIOD		0.06785	ug/m^3	RES_140	979820.30	3742738.81	21.44	0.00	21.44	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.06443	ug/m^3	RES_141	979820.30	3742758.81	21.28	0.00	21.28	
PERIOD		0.06134	ug/m^3	RES_142	979820.30	3742778.81	21.08	0.00	21.08	
PERIOD		0.16348	ug/m^3	RES_143	979840.30	3742478.81	20.99	0.00	20.99	
PERIOD		0.15337	ug/m^3	RES_144	979840.30	3742498.81	21.12	0.00	21.12	
PERIOD		0.14357	ug/m^3	RES_145	979840.30	3742518.81	21.15	0.00	21.15	
PERIOD		0.13407	ug/m^3	RES_146	979840.30	3742538.81	21.18	0.00	21.18	
PERIOD		0.12506	ug/m^3	RES_147	979840.30	3742558.81	21.19	0.00	21.19	
PERIOD		0.11668	ug/m^3	RES_148	979840.30	3742578.81	21.11	0.00	21.11	
PERIOD		0.10886	ug/m^3	RES_149	979840.30	3742598.81	21.08	0.00	21.08	
PERIOD		0.10160	ug/m^3	RES_150	979840.30	3742618.81	21.14	0.00	21.14	
PERIOD		0.09493	ug/m^3	RES_151	979840.30	3742638.81	21.27	0.00	21.27	
PERIOD		0.08893	ug/m^3	RES_152	979840.30	3742658.81	21.32	0.00	21.32	
PERIOD		0.08364	ug/m^3	RES_153	979840.30	3742678.81	21.15	0.00	21.15	
PERIOD		0.07876	ug/m^3	RES_154	979840.30	3742698.81	21.15	0.00	21.15	
PERIOD		0.07433	ug/m^3	RES_155	979840.30	3742718.81	21.20	0.00	21.20	
PERIOD		0.07035	ug/m^3	RES_156	979840.30	3742738.81	21.19	0.00	21.19	
PERIOD		0.06680	ug/m^3	RES_157	979840.30	3742758.81	21.07	0.00	21.07	
PERIOD		0.06359	ug/m^3	RES_158	979840.30	3742778.81	20.91	0.00	20.91	
PERIOD		0.17448	ug/m^3	RES_159	979860.30	3742478.81	21.09	0.00	21.09	
PERIOD		0.16270	ug/m^3	RES_160	979860.30	3742498.81	21.28	0.00	21.28	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.15136	ug/m^3	RES_161	979860.30	3742518.81	21.44	0.00	21.44	
PERIOD		0.14067	ug/m^3	RES_162	979860.30	3742538.81	21.51	0.00	21.51	
PERIOD		0.13082	ug/m^3	RES_163	979860.30	3742558.81	21.42	0.00	21.42	
PERIOD		0.12183	ug/m^3	RES_164	979860.30	3742578.81	21.18	0.00	21.18	
PERIOD		0.11356	ug/m^3	RES_165	979860.30	3742598.81	20.98	0.00	20.98	
PERIOD		0.10586	ug/m^3	RES_166	979860.30	3742618.81	20.95	0.00	20.95	
PERIOD		0.09888	ug/m^3	RES_167	979860.30	3742638.81	20.95	0.00	20.95	
PERIOD		0.09258	ug/m^3	RES_168	979860.30	3742658.81	20.95	0.00	20.95	
PERIOD		0.08694	ug/m^3	RES_169	979860.30	3742678.81	20.92	0.00	20.92	
PERIOD		0.08182	ug/m^3	RES_170	979860.30	3742698.81	20.98	0.00	20.98	
PERIOD		0.07720	ug/m^3	RES_171	979860.30	3742718.81	21.06	0.00	21.06	
PERIOD		0.07310	ug/m^3	RES_172	979860.30	3742738.81	21.00	0.00	21.00	
PERIOD		0.06939	ug/m^3	RES_173	979860.30	3742758.81	20.91	0.00	20.91	
PERIOD		0.06604	ug/m^3	RES_174	979860.30	3742778.81	20.80	0.00	20.80	
PERIOD		0.20053	ug/m^3	RES_175	979880.30	3742458.81	20.87	0.00	20.87	
PERIOD		0.18633	ug/m^3	RES_176	979880.30	3742478.81	21.14	0.00	21.14	
PERIOD		0.17272	ug/m^3	RES_177	979880.30	3742498.81	21.35	0.00	21.35	
PERIOD		0.15985	ug/m^3	RES_178	979880.30	3742518.81	21.52	0.00	21.52	
PERIOD		0.14791	ug/m^3	RES_179	979880.30	3742538.81	21.61	0.00	21.61	
PERIOD		0.13703	ug/m^3	RES_180	979880.30	3742558.81	21.56	0.00	21.56	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.12733	ug/m^3	RES_181	979880.30	3742578.81	21.27	0.00	21.27	
PERIOD		0.11847	ug/m^3	RES_182	979880.30	3742598.81	21.04	0.00	21.04	
PERIOD		0.11017	ug/m^3	RES_183	979880.30	3742618.81	21.14	0.00	21.14	
PERIOD		0.10278	ug/m^3	RES_184	979880.30	3742638.81	21.17	0.00	21.17	
PERIOD		0.09621	ug/m^3	RES_185	979880.30	3742658.81	21.16	0.00	21.16	
PERIOD		0.09039	ug/m^3	RES_186	979880.30	3742678.81	21.04	0.00	21.04	
PERIOD		0.08509	ug/m^3	RES_187	979880.30	3742698.81	21.05	0.00	21.05	
PERIOD		0.08029	ug/m^3	RES_188	979880.30	3742718.81	21.11	0.00	21.11	
PERIOD		0.07607	ug/m^3	RES_189	979880.30	3742738.81	20.96	0.00	20.96	
PERIOD		0.07224	ug/m^3	RES_190	979880.30	3742758.81	20.81	0.00	20.81	
PERIOD		0.21567	ug/m^3	RES_191	979900.30	3742458.81	20.86	0.00	20.86	
PERIOD		0.19918	ug/m^3	RES_192	979900.30	3742478.81	21.10	0.00	21.10	
PERIOD		0.18361	ug/m^3	RES_193	979900.30	3742498.81	21.29	0.00	21.29	
PERIOD		0.16908	ug/m^3	RES_194	979900.30	3742518.81	21.47	0.00	21.47	
PERIOD		0.15581	ug/m^3	RES_195	979900.30	3742538.81	21.58	0.00	21.58	
PERIOD		0.14386	ug/m^3	RES_196	979900.30	3742558.81	21.58	0.00	21.58	
PERIOD		0.13332	ug/m^3	RES_197	979900.30	3742578.81	21.34	0.00	21.34	
PERIOD		0.12380	ug/m^3	RES_198	979900.30	3742598.81	21.13	0.00	21.13	
PERIOD		0.11498	ug/m^3	RES_199	979900.30	3742618.81	21.26	0.00	21.26	
PERIOD		0.10719	ug/m^3	RES_200	979900.30	3742638.81	21.32	0.00	21.32	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.10031	ug/m^3	RES_201	979900.30	3742658.81	21.32	0.00	21.32	
PERIOD		0.09424	ug/m^3	RES_202	979900.30	3742678.81	21.20	0.00	21.20	
PERIOD		0.08870	ug/m^3	RES_203	979900.30	3742698.81	21.23	0.00	21.23	
PERIOD		0.08366	ug/m^3	RES_204	979900.30	3742718.81	21.34	0.00	21.34	
PERIOD		0.07929	ug/m^3	RES_205	979900.30	3742738.81	21.12	0.00	21.12	
PERIOD		0.07537	ug/m^3	RES_206	979900.30	3742758.81	20.80	0.00	20.80	
PERIOD		0.23225	ug/m^3	RES_207	979920.30	3742458.81	20.79	0.00	20.79	
PERIOD		0.21325	ug/m^3	RES_208	979920.30	3742478.81	20.98	0.00	20.98	
PERIOD		0.19549	ug/m^3	RES_209	979920.30	3742498.81	21.17	0.00	21.17	
PERIOD		0.17918	ug/m^3	RES_210	979920.30	3742518.81	21.36	0.00	21.36	
PERIOD		0.16445	ug/m^3	RES_211	979920.30	3742538.81	21.52	0.00	21.52	
PERIOD		0.15141	ug/m^3	RES_212	979920.30	3742558.81	21.53	0.00	21.53	
PERIOD		0.13999	ug/m^3	RES_213	979920.30	3742578.81	21.34	0.00	21.34	
PERIOD		0.12982	ug/m^3	RES_214	979920.30	3742598.81	21.16	0.00	21.16	
PERIOD		0.12042	ug/m^3	RES_215	979920.30	3742618.81	21.36	0.00	21.36	
PERIOD		0.11222	ug/m^3	RES_216	979920.30	3742638.81	21.43	0.00	21.43	
PERIOD		0.10502	ug/m^3	RES_217	979920.30	3742658.81	21.41	0.00	21.41	
PERIOD		0.09863	ug/m^3	RES_218	979920.30	3742678.81	21.33	0.00	21.33	
PERIOD		0.09281	ug/m^3	RES_219	979920.30	3742698.81	21.37	0.00	21.37	
PERIOD		0.08750	ug/m^3	RES_220	979920.30	3742718.81	21.50	0.00	21.50	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.08294	ug/m^3	RES_221	979920.30	3742738.81	21.21	0.00	21.21	
PERIOD		0.07876	ug/m^3	RES_222	979920.30	3742758.81	20.94	0.00	20.94	
PERIOD		0.25054	ug/m^3	RES_223	979940.30	3742458.81	20.69	0.00	20.69	
PERIOD		0.22863	ug/m^3	RES_224	979940.30	3742478.81	20.87	0.00	20.87	
PERIOD		0.20846	ug/m^3	RES_225	979940.30	3742498.81	21.09	0.00	21.09	
PERIOD		0.19015	ug/m^3	RES_226	979940.30	3742518.81	21.34	0.00	21.34	
PERIOD		0.17393	ug/m^3	RES_227	979940.30	3742538.81	21.51	0.00	21.51	
PERIOD		0.15993	ug/m^3	RES_228	979940.30	3742558.81	21.42	0.00	21.42	
PERIOD		0.14766	ug/m^3	RES_229	979940.30	3742578.81	21.26	0.00	21.26	
PERIOD		0.13682	ug/m^3	RES_230	979940.30	3742598.81	21.12	0.00	21.12	
PERIOD		0.12679	ug/m^3	RES_231	979940.30	3742618.81	21.38	0.00	21.38	
PERIOD		0.11810	ug/m^3	RES_232	979940.30	3742638.81	21.47	0.00	21.47	
PERIOD		0.11051	ug/m^3	RES_233	979940.30	3742658.81	21.42	0.00	21.42	
PERIOD		0.10371	ug/m^3	RES_234	979940.30	3742678.81	21.39	0.00	21.39	
PERIOD		0.09754	ug/m^3	RES_235	979940.30	3742698.81	21.43	0.00	21.43	
PERIOD		0.09191	ug/m^3	RES_236	979940.30	3742718.81	21.54	0.00	21.54	
PERIOD		0.08708	ug/m^3	RES_237	979940.30	3742738.81	21.21	0.00	21.21	
PERIOD		0.08262	ug/m^3	RES_238	979940.30	3742758.81	20.96	0.00	20.96	
PERIOD		0.27112	ug/m^3	RES_239	979960.30	3742458.81	20.56	0.00	20.56	
PERIOD		0.24595	ug/m^3	RES_240	979960.30	3742478.81	20.73	0.00	20.73	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.22313	ug/m^3	RES_241	979960.30	3742498.81	20.96	0.00	20.96	
PERIOD		0.20277	ug/m^3	RES_242	979960.30	3742518.81	21.20	0.00	21.20	
PERIOD		0.18497	ug/m^3	RES_243	979960.30	3742538.81	21.38	0.00	21.38	
PERIOD		0.16992	ug/m^3	RES_244	979960.30	3742558.81	21.25	0.00	21.25	
PERIOD		0.15675	ug/m^3	RES_245	979960.30	3742578.81	21.11	0.00	21.11	
PERIOD		0.14513	ug/m^3	RES_246	979960.30	3742598.81	21.00	0.00	21.00	
PERIOD		0.13437	ug/m^3	RES_247	979960.30	3742618.81	21.29	0.00	21.29	
PERIOD		0.12508	ug/m^3	RES_248	979960.30	3742638.81	21.40	0.00	21.40	
PERIOD		0.11697	ug/m^3	RES_249	979960.30	3742658.81	21.34	0.00	21.34	
PERIOD		0.10964	ug/m^3	RES_250	979960.30	3742678.81	21.35	0.00	21.35	
PERIOD		0.10302	ug/m^3	RES_251	979960.30	3742698.81	21.38	0.00	21.38	
PERIOD		0.09699	ug/m^3	RES_252	979960.30	3742718.81	21.45	0.00	21.45	
PERIOD		0.09180	ug/m^3	RES_253	979960.30	3742738.81	21.12	0.00	21.12	
PERIOD		0.08702	ug/m^3	RES_254	979960.30	3742758.81	20.84	0.00	20.84	
PERIOD		0.29492	ug/m^3	RES_255	979980.30	3742458.81	20.41	0.00	20.41	
PERIOD		0.26605	ug/m^3	RES_256	979980.30	3742478.81	20.57	0.00	20.57	
PERIOD		0.24029	ug/m^3	RES_257	979980.30	3742498.81	20.78	0.00	20.78	
PERIOD		0.21778	ug/m^3	RES_258	979980.30	3742518.81	20.98	0.00	20.98	
PERIOD		0.19836	ug/m^3	RES_259	979980.30	3742538.81	21.14	0.00	21.14	
PERIOD		0.18196	ug/m^3	RES_260	979980.30	3742558.81	21.05	0.00	21.05	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.16769	ug/m^3	RES_261	979980.30	3742578.81	20.93	0.00	20.93	
PERIOD		0.15518	ug/m^3	RES_262	979980.30	3742598.81	20.80	0.00	20.80	
PERIOD		0.14355	ug/m^3	RES_263	979980.30	3742618.81	21.07	0.00	21.07	
PERIOD		0.13347	ug/m^3	RES_264	979980.30	3742638.81	21.17	0.00	21.17	
PERIOD		0.12466	ug/m^3	RES_265	979980.30	3742658.81	21.11	0.00	21.11	
PERIOD		0.11665	ug/m^3	RES_266	979980.30	3742678.81	21.15	0.00	21.15	
PERIOD		0.10941	ug/m^3	RES_267	979980.30	3742698.81	21.21	0.00	21.21	
PERIOD		0.10285	ug/m^3	RES_268	979980.30	3742718.81	21.27	0.00	21.27	
PERIOD		0.09722	ug/m^3	RES_269	979980.30	3742738.81	20.91	0.00	20.91	
PERIOD		0.09204	ug/m^3	RES_270	979980.30	3742758.81	20.58	0.00	20.58	
PERIOD		0.32383	ug/m^3	RES_271	980000.30	3742458.81	20.18	0.00	20.18	
PERIOD		0.29048	ug/m^3	RES_272	980000.30	3742478.81	20.34	0.00	20.34	
PERIOD		0.26152	ug/m^3	RES_273	980000.30	3742498.81	20.51	0.00	20.51	
PERIOD		0.23649	ug/m^3	RES_274	980000.30	3742518.81	20.69	0.00	20.69	
PERIOD		0.21494	ug/m^3	RES_275	980000.30	3742538.81	20.86	0.00	20.86	
PERIOD		0.19683	ug/m^3	RES_276	980000.30	3742558.81	20.80	0.00	20.80	
PERIOD		0.18108	ug/m^3	RES_277	980000.30	3742578.81	20.71	0.00	20.71	
PERIOD		0.16728	ug/m^3	RES_278	980000.30	3742598.81	20.61	0.00	20.61	
PERIOD		0.15453	ug/m^3	RES_279	980000.30	3742618.81	20.84	0.00	20.84	
PERIOD		0.14349	ug/m^3	RES_280	980000.30	3742638.81	20.89	0.00	20.89	

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.13394	ug/m^3	RES_281	980000.30	3742658.81	20.70	0.00	20.70	
PERIOD		0.12501	ug/m^3	RES_282	980000.30	3742678.81	20.78	0.00	20.78	
PERIOD		0.11694	ug/m^3	RES_283	980000.30	3742698.81	20.88	0.00	20.88	
PERIOD		0.10966	ug/m^3	RES_284	980000.30	3742718.81	20.97	0.00	20.97	
PERIOD		0.10337	ug/m^3	RES_285	980000.30	3742738.81	20.73	0.00	20.73	
PERIOD		0.09762	ug/m^3	RES_286	980000.30	3742758.81	20.49	0.00	20.49	
PERIOD		0.26049	ug/m^3	RES_287	980020.30	3742518.81	20.33	0.00	20.33	
PERIOD		0.23599	ug/m^3	RES_288	980020.30	3742538.81	20.52	0.00	20.52	
PERIOD		0.21553	ug/m^3	RES_289	980020.30	3742558.81	20.48	0.00	20.48	
PERIOD		0.19771	ug/m^3	RES_290	980020.30	3742578.81	20.43	0.00	20.43	
PERIOD		0.18206	ug/m^3	RES_291	980020.30	3742598.81	20.40	0.00	20.40	
PERIOD		0.16781	ug/m^3	RES_292	980020.30	3742618.81	20.58	0.00	20.58	
PERIOD		0.15544	ug/m^3	RES_293	980020.30	3742638.81	20.61	0.00	20.61	
PERIOD		0.14480	ug/m^3	RES_294	980020.30	3742658.81	20.38	0.00	20.38	
PERIOD		0.13473	ug/m^3	RES_295	980020.30	3742678.81	20.49	0.00	20.49	
PERIOD		0.12563	ug/m^3	RES_296	980020.30	3742698.81	20.65	0.00	20.65	
PERIOD		0.11750	ug/m^3	RES_297	980020.30	3742718.81	20.75	0.00	20.75	
PERIOD		0.11042	ug/m^3	RES_298	980020.30	3742738.81	20.61	0.00	20.61	
PERIOD		0.10397	ug/m^3	RES_299	980020.30	3742758.81	20.47	0.00	20.47	
PERIOD		0.16978	ug/m^3	RES_300	980040.30	3742638.81	20.36	0.00	20.36	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.15752	ug/m^3	RES_301	980040.30	3742658.81	20.23	0.00	20.23	
PERIOD		0.14609	ug/m^3	RES_302	980040.30	3742678.81	20.34	0.00	20.34	
PERIOD		0.13584	ug/m^3	RES_303	980040.30	3742698.81	20.47	0.00	20.47	
PERIOD		0.12672	ug/m^3	RES_304	980040.30	3742718.81	20.54	0.00	20.54	
PERIOD		0.11870	ug/m^3	RES_305	980040.30	3742738.81	20.47	0.00	20.47	
PERIOD		0.48710	ug/m^3	RES_306	980047.32	3742438.94	19.50	0.00	19.50	
PERIOD		0.42976	ug/m^3	RES_307	980047.32	3742458.94	19.54	0.00	19.54	
PERIOD		0.38095	ug/m^3	RES_308	980047.32	3742478.94	19.63	0.00	19.63	
PERIOD		0.33969	ug/m^3	RES_309	980047.32	3742498.94	19.73	0.00	19.73	
PERIOD		0.30463	ug/m^3	RES_310	980047.32	3742518.94	19.83	0.00	19.83	
PERIOD		0.27468	ug/m^3	RES_311	980047.32	3742538.94	19.93	0.00	19.93	
PERIOD		0.65421	ug/m^3	RES_312	980067.32	3742418.94	19.54	0.00	19.54	
PERIOD		0.56824	ug/m^3	RES_313	980067.32	3742438.94	19.61	0.00	19.61	
PERIOD		0.49741	ug/m^3	RES_314	980067.32	3742458.94	19.66	0.00	19.66	
PERIOD		0.43887	ug/m^3	RES_315	980067.32	3742478.94	19.67	0.00	19.67	
PERIOD		0.38896	ug/m^3	RES_316	980067.32	3742498.94	19.74	0.00	19.74	
PERIOD		0.34696	ug/m^3	RES_317	980067.32	3742518.94	19.80	0.00	19.80	
PERIOD		0.31142	ug/m^3	RES_318	980067.32	3742538.94	19.83	0.00	19.83	
PERIOD		0.28122	ug/m^3	RES_319	980067.32	3742558.94	19.82	0.00	19.82	
PERIOD		0.25494	ug/m^3	RES_320	980067.32	3742578.94	19.83	0.00	19.83	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.79106	ug/m^3	RES_321	980087.32	3742418.94	19.57	0.00	19.57	
PERIOD		0.67661	ug/m^3	RES_322	980087.32	3742438.94	19.76	0.00	19.76	
PERIOD		0.58592	ug/m^3	RES_323	980087.32	3742458.94	19.86	0.00	19.86	
PERIOD		0.51319	ug/m^3	RES_324	980087.32	3742478.94	19.84	0.00	19.84	
PERIOD		0.45119	ug/m^3	RES_325	980087.32	3742498.94	19.90	0.00	19.90	
PERIOD		0.39966	ug/m^3	RES_326	980087.32	3742518.94	19.93	0.00	19.93	
PERIOD		0.35662	ug/m^3	RES_327	980087.32	3742538.94	19.90	0.00	19.90	
PERIOD		0.31987	ug/m^3	RES_328	980087.32	3742558.94	19.87	0.00	19.87	
PERIOD		0.28814	ug/m^3	RES_329	980087.32	3742578.94	19.87	0.00	19.87	
PERIOD		1.16344	ug/m^3	RES_330	980107.32	3742398.94	19.38	0.00	19.38	
PERIOD		0.97529	ug/m^3	RES_331	980107.32	3742418.94	19.62	0.00	19.62	
PERIOD		0.82375	ug/m^3	RES_332	980107.32	3742438.94	19.87	0.00	19.87	
PERIOD		0.70398	ug/m^3	RES_333	980107.32	3742458.94	20.01	0.00	20.01	
PERIOD		0.60861	ug/m^3	RES_334	980107.32	3742478.94	20.03	0.00	20.03	
PERIOD		0.52959	ug/m^3	RES_335	980107.32	3742498.94	20.07	0.00	20.07	
PERIOD		0.46471	ug/m^3	RES_336	980107.32	3742518.94	20.08	0.00	20.08	
PERIOD		0.41100	ug/m^3	RES_337	980107.32	3742538.94	20.05	0.00	20.05	
PERIOD		0.36594	ug/m^3	RES_338	980107.32	3742558.94	20.01	0.00	20.01	
PERIOD		0.32767	ug/m^3	RES_339	980107.32	3742578.94	19.98	0.00	19.98	
PERIOD		1.40125	ug/m^3	RES_340	980127.32	3742398.94	19.43	0.00	19.43	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.20252	ug/m^3	RES_341	980127.32	3742418.94	19.68	0.00	19.68	
PERIOD		1.01940	ug/m^3	RES_342	980127.32	3742438.94	19.89	0.00	19.89	
PERIOD		0.85541	ug/m^3	RES_343	980127.32	3742458.94	20.05	0.00	20.05	
PERIOD		0.72608	ug/m^3	RES_344	980127.32	3742478.94	20.16	0.00	20.16	
PERIOD		0.62460	ug/m^3	RES_345	980127.32	3742498.94	20.20	0.00	20.20	
PERIOD		0.54292	ug/m^3	RES_346	980127.32	3742518.94	20.21	0.00	20.21	
PERIOD		0.47608	ug/m^3	RES_347	980127.32	3742538.94	20.20	0.00	20.20	
PERIOD		0.42085	ug/m^3	RES_348	980127.32	3742558.94	20.17	0.00	20.17	
PERIOD		0.37448	ug/m^3	RES_349	980127.32	3742578.94	20.15	0.00	20.15	
PERIOD		0.33524	ug/m^3	RES_350	980127.32	3742598.94	20.14	0.00	20.14	
PERIOD		2.04607	ug/m^3	RES_351	980147.32	3742378.94	19.27	0.00	19.27	
PERIOD		1.70685	ug/m^3	RES_352	980147.32	3742398.94	19.54	0.00	19.54	
PERIOD		1.46911	ug/m^3	RES_353	980147.32	3742418.94	19.69	0.00	19.69	
PERIOD		1.25604	ug/m^3	RES_354	980147.32	3742438.94	19.83	0.00	19.83	
PERIOD		1.03828	ug/m^3	RES_355	980147.32	3742458.94	19.97	0.00	19.97	
PERIOD		0.86924	ug/m^3	RES_356	980147.32	3742478.94	20.13	0.00	20.13	
PERIOD		0.73902	ug/m^3	RES_357	980147.32	3742498.94	20.24	0.00	20.24	
PERIOD		0.63613	ug/m^3	RES_358	980147.32	3742518.94	20.31	0.00	20.31	
PERIOD		0.55402	ug/m^3	RES_359	980147.32	3742538.94	20.30	0.00	20.30	
PERIOD		0.48637	ug/m^3	RES_360	980147.32	3742558.94	20.31	0.00	20.31	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.43020	ug/m^3	RES_361	980147.32	3742578.94	20.32	0.00	20.32	
PERIOD		0.38301	ug/m^3	RES_362	980147.32	3742598.94	20.34	0.00	20.34	
PERIOD		0.34264	ug/m^3	RES_363	980147.32	3742618.94	20.43	0.00	20.43	
PERIOD		2.64504	ug/m^3	RES_364	980167.32	3742378.94	19.31	0.00	19.31	
PERIOD		2.18195	ug/m^3	RES_365	980167.32	3742398.94	19.53	0.00	19.53	
PERIOD		1.82263	ug/m^3	RES_366	980167.32	3742418.94	19.73	0.00	19.73	
PERIOD		1.52171	ug/m^3	RES_367	980167.32	3742438.94	19.87	0.00	19.87	
PERIOD		1.24687	ug/m^3	RES_368	980167.32	3742458.94	20.01	0.00	20.01	
PERIOD		1.03462	ug/m^3	RES_369	980167.32	3742478.94	20.19	0.00	20.19	
PERIOD		0.87358	ug/m^3	RES_370	980167.32	3742498.94	20.29	0.00	20.29	
PERIOD		0.74798	ug/m^3	RES_371	980167.32	3742518.94	20.33	0.00	20.33	
PERIOD		0.64709	ug/m^3	RES_372	980167.32	3742538.94	20.36	0.00	20.36	
PERIOD		0.56542	ug/m^3	RES_373	980167.32	3742558.94	20.34	0.00	20.34	
PERIOD		0.49823	ug/m^3	RES_374	980167.32	3742578.94	20.29	0.00	20.29	
PERIOD		0.44143	ug/m^3	RES_375	980167.32	3742598.94	20.31	0.00	20.31	
PERIOD		0.39285	ug/m^3	RES_376	980167.32	3742618.94	20.43	0.00	20.43	
PERIOD		0.35122	ug/m^3	RES_377	980167.32	3742638.94	20.62	0.00	20.62	
PERIOD		0.31576	ug/m^3	RES_378	980167.32	3742658.94	20.80	0.00	20.80	
PERIOD		4.42189	ug/m^3	RES_379	980187.32	3742358.94	19.11	0.00	19.11	
PERIOD		3.50382	ug/m^3	RES_380	980187.32	3742378.94	19.26	0.00	19.26	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.82963	ug/m^3	RES_381	980187.32	3742398.94	19.43	0.00	19.43	
PERIOD		2.27476	ug/m^3	RES_382	980187.32	3742418.94	19.67	0.00	19.67	
PERIOD		1.82967	ug/m^3	RES_383	980187.32	3742438.94	19.85	0.00	19.85	
PERIOD		1.48592	ug/m^3	RES_384	980187.32	3742458.94	20.02	0.00	20.02	
PERIOD		1.22860	ug/m^3	RES_385	980187.32	3742478.94	20.17	0.00	20.17	
PERIOD		1.03350	ug/m^3	RES_386	980187.32	3742498.94	20.22	0.00	20.22	
PERIOD		0.88108	ug/m^3	RES_387	980187.32	3742518.94	20.22	0.00	20.22	
PERIOD		0.75847	ug/m^3	RES_388	980187.32	3742538.94	20.25	0.00	20.25	
PERIOD		0.65876	ug/m^3	RES_389	980187.32	3742558.94	20.29	0.00	20.29	
PERIOD		0.57648	ug/m^3	RES_390	980187.32	3742578.94	20.36	0.00	20.36	
PERIOD		0.50802	ug/m^3	RES_391	980187.32	3742598.94	20.44	0.00	20.44	
PERIOD		0.44989	ug/m^3	RES_392	980187.32	3742618.94	20.61	0.00	20.61	
PERIOD		0.40030	ug/m^3	RES_393	980187.32	3742638.94	20.86	0.00	20.86	
PERIOD		0.35916	ug/m^3	RES_394	980187.32	3742658.94	20.93	0.00	20.93	
PERIOD		0.32429	ug/m^3	RES_395	980187.32	3742678.94	20.90	0.00	20.90	
PERIOD		7.83466	ug/m^3	RES_396	980207.32	3742338.94	18.87	0.00	18.87	
PERIOD		5.46348	ug/m^3	RES_397	980207.32	3742358.94	19.03	0.00	19.03	
PERIOD		4.34648	ug/m^3	RES_398	980207.32	3742378.94	19.15	0.00	19.15	
PERIOD		3.44362	ug/m^3	RES_399	980207.32	3742398.94	19.30	0.00	19.30	
PERIOD		2.69440	ug/m^3	RES_400	980207.32	3742418.94	19.53	0.00	19.53	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.14572	ug/m^3	RES_401	980207.32	3742438.94	19.78	0.00	19.78	
PERIOD		1.74141	ug/m^3	RES_402	980207.32	3742458.94	20.00	0.00	20.00	
PERIOD		1.44068	ug/m^3	RES_403	980207.32	3742478.94	20.08	0.00	20.08	
PERIOD		1.20989	ug/m^3	RES_404	980207.32	3742498.94	20.10	0.00	20.10	
PERIOD		1.02878	ug/m^3	RES_405	980207.32	3742518.94	20.08	0.00	20.08	
PERIOD		0.88298	ug/m^3	RES_406	980207.32	3742538.94	20.10	0.00	20.10	
PERIOD		0.76356	ug/m^3	RES_407	980207.32	3742558.94	20.20	0.00	20.20	
PERIOD		0.66479	ug/m^3	RES_408	980207.32	3742578.94	20.37	0.00	20.37	
PERIOD		0.58265	ug/m^3	RES_409	980207.32	3742598.94	20.58	0.00	20.58	
PERIOD		0.51406	ug/m^3	RES_410	980207.32	3742618.94	20.79	0.00	20.79	
PERIOD		0.45650	ug/m^3	RES_411	980207.32	3742638.94	20.97	0.00	20.97	
PERIOD		0.40897	ug/m^3	RES_412	980207.32	3742658.94	20.92	0.00	20.92	
PERIOD		0.36807	ug/m^3	RES_413	980207.32	3742678.94	20.88	0.00	20.88	
PERIOD		0.33231	ug/m^3	RES_414	980207.32	3742698.94	20.93	0.00	20.93	
PERIOD		7.92018	ug/m^3	RES_415	980227.32	3742338.94	18.91	0.00	18.91	
PERIOD		5.93015	ug/m^3	RES_416	980227.32	3742358.94	18.95	0.00	18.95	
PERIOD		4.78271	ug/m^3	RES_417	980227.32	3742378.94	19.13	0.00	19.13	
PERIOD		3.75026	ug/m^3	RES_418	980227.32	3742398.94	19.35	0.00	19.35	
PERIOD		2.98760	ug/m^3	RES_419	980227.32	3742418.94	19.53	0.00	19.53	
PERIOD		2.41381	ug/m^3	RES_420	980227.32	3742438.94	19.76	0.00	19.76	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.97683	ug/m^3	RES_421	980227.32	3742458.94	19.98	0.00	19.98	
PERIOD		1.64600	ug/m^3	RES_422	980227.32	3742478.94	19.98	0.00	19.98	
PERIOD		1.38601	ug/m^3	RES_423	980227.32	3742498.94	19.98	0.00	19.98	
PERIOD		1.17915	ug/m^3	RES_424	980227.32	3742518.94	19.97	0.00	19.97	
PERIOD		1.01185	ug/m^3	RES_425	980227.32	3742538.94	19.99	0.00	19.99	
PERIOD		0.87377	ug/m^3	RES_426	980227.32	3742558.94	20.12	0.00	20.12	
PERIOD		0.75890	ug/m^3	RES_427	980227.32	3742578.94	20.36	0.00	20.36	
PERIOD		0.66317	ug/m^3	RES_428	980227.32	3742598.94	20.66	0.00	20.66	
PERIOD		0.58399	ug/m^3	RES_429	980227.32	3742618.94	20.88	0.00	20.88	
PERIOD		0.51829	ug/m^3	RES_430	980227.32	3742638.94	20.96	0.00	20.96	
PERIOD		0.46332	ug/m^3	RES_431	980227.32	3742658.94	20.89	0.00	20.89	
PERIOD		0.41579	ug/m^3	RES_432	980227.32	3742678.94	20.88	0.00	20.88	
PERIOD		0.37395	ug/m^3	RES_433	980227.32	3742698.94	21.04	0.00	21.04	
PERIOD		0.33809	ug/m^3	RES_434	980227.32	3742718.94	21.12	0.00	21.12	
PERIOD		0.30687	ug/m^3	RES_435	980227.32	3742738.94	21.20	0.00	21.20	
PERIOD		9.54732	ug/m^3	RES_436	980247.32	3742318.94	18.81	0.00	18.81	
PERIOD		7.37602	ug/m^3	RES_437	980247.32	3742338.94	18.91	0.00	18.91	
PERIOD		5.87245	ug/m^3	RES_438	980247.32	3742358.94	19.02	0.00	19.02	
PERIOD		4.73547	ug/m^3	RES_439	980247.32	3742378.94	19.18	0.00	19.18	
PERIOD		3.84585	ug/m^3	RES_440	980247.32	3742398.94	19.35	0.00	19.35	

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.14491	ug/m^3	RES_441	980247.32	3742418.94	19.55	0.00	19.55	
PERIOD		2.59156	ug/m^3	RES_442	980247.32	3742438.94	19.78	0.00	19.78	
PERIOD		2.15440	ug/m^3	RES_443	980247.32	3742458.94	19.99	0.00	19.99	
PERIOD		1.81214	ug/m^3	RES_444	980247.32	3742478.94	19.99	0.00	19.99	
PERIOD		1.53795	ug/m^3	RES_445	980247.32	3742498.94	19.95	0.00	19.95	
PERIOD		1.31609	ug/m^3	RES_446	980247.32	3742518.94	19.89	0.00	19.89	
PERIOD		1.13197	ug/m^3	RES_447	980247.32	3742538.94	19.98	0.00	19.98	
PERIOD		0.97921	ug/m^3	RES_448	980247.32	3742558.94	20.15	0.00	20.15	
PERIOD		0.85142	ug/m^3	RES_449	980247.32	3742578.94	20.42	0.00	20.42	
PERIOD		0.74536	ug/m^3	RES_450	980247.32	3742598.94	20.65	0.00	20.65	
PERIOD		0.65711	ug/m^3	RES_451	980247.32	3742618.94	20.79	0.00	20.79	
PERIOD		0.58319	ug/m^3	RES_452	980247.32	3742638.94	20.82	0.00	20.82	
PERIOD		0.52016	ug/m^3	RES_453	980247.32	3742658.94	20.84	0.00	20.84	
PERIOD		0.46581	ug/m^3	RES_454	980247.32	3742678.94	20.90	0.00	20.90	
PERIOD		0.41857	ug/m^3	RES_455	980247.32	3742698.94	21.03	0.00	21.03	
PERIOD		0.37774	ug/m^3	RES_456	980247.32	3742718.94	21.14	0.00	21.14	
PERIOD		0.34213	ug/m^3	RES_457	980247.32	3742738.94	21.26	0.00	21.26	
PERIOD		0.31104	ug/m^3	RES_458	980247.32	3742758.94	21.37	0.00	21.37	
PERIOD		10.47128	ug/m^3	RES_459	980267.32	3742298.94	18.83	0.00	18.83	
PERIOD		8.30760	ug/m^3	RES_460	980267.32	3742318.94	18.86	0.00	18.86	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		6.68444	ug/m^3	RES_461	980267.32	3742338.94	18.88	0.00	18.88	
PERIOD		5.46767	ug/m^3	RES_462	980267.32	3742358.94	19.08	0.00	19.08	
PERIOD		4.53058	ug/m^3	RES_463	980267.32	3742378.94	19.23	0.00	19.23	
PERIOD		3.78031	ug/m^3	RES_464	980267.32	3742398.94	19.36	0.00	19.36	
PERIOD		3.16817	ug/m^3	RES_465	980267.32	3742418.94	19.54	0.00	19.54	
PERIOD		2.66736	ug/m^3	RES_466	980267.32	3742438.94	19.74	0.00	19.74	
PERIOD		2.25714	ug/m^3	RES_467	980267.32	3742458.94	19.93	0.00	19.93	
PERIOD		1.92456	ug/m^3	RES_468	980267.32	3742478.94	19.93	0.00	19.93	
PERIOD		1.65034	ug/m^3	RES_469	980267.32	3742498.94	19.92	0.00	19.92	
PERIOD		1.42338	ug/m^3	RES_470	980267.32	3742518.94	19.90	0.00	19.90	
PERIOD		1.23252	ug/m^3	RES_471	980267.32	3742538.94	20.00	0.00	20.00	
PERIOD		1.07217	ug/m^3	RES_472	980267.32	3742558.94	20.16	0.00	20.16	
PERIOD		0.93647	ug/m^3	RES_473	980267.32	3742578.94	20.41	0.00	20.41	
PERIOD		0.82380	ug/m^3	RES_474	980267.32	3742598.94	20.50	0.00	20.50	
PERIOD		0.72854	ug/m^3	RES_475	980267.32	3742618.94	20.55	0.00	20.55	
PERIOD		0.64745	ug/m^3	RES_476	980267.32	3742638.94	20.57	0.00	20.57	
PERIOD		0.57680	ug/m^3	RES_477	980267.32	3742658.94	20.74	0.00	20.74	
PERIOD		0.51603	ug/m^3	RES_478	980267.32	3742678.94	20.91	0.00	20.91	
PERIOD		0.46445	ug/m^3	RES_479	980267.32	3742698.94	20.90	0.00	20.90	
PERIOD		0.41870	ug/m^3	RES_480	980267.32	3742718.94	21.07	0.00	21.07	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.37857	ug/m^3	RES_481	980267.32	3742738.94	21.30	0.00	21.30	
PERIOD		0.34360	ug/m^3	RES_482	980267.32	3742758.94	21.49	0.00	21.49	
PERIOD		0.31351	ug/m^3	RES_483	980267.32	3742778.94	21.48	0.00	21.48	
PERIOD		10.61292	ug/m^3	RES_484	980287.32	3742278.94	18.85	0.00	18.85	
PERIOD		8.70101	ug/m^3	RES_485	980287.32	3742298.94	18.91	0.00	18.91	
PERIOD		7.18323	ug/m^3	RES_486	980287.32	3742318.94	18.89	0.00	18.89	
PERIOD		5.97584	ug/m^3	RES_487	980287.32	3742338.94	18.90	0.00	18.90	
PERIOD		5.01182	ug/m^3	RES_488	980287.32	3742358.94	19.08	0.00	19.08	
PERIOD		4.23783	ug/m^3	RES_489	980287.32	3742378.94	19.24	0.00	19.24	
PERIOD		3.60643	ug/m^3	RES_490	980287.32	3742398.94	19.39	0.00	19.39	
PERIOD		3.08454	ug/m^3	RES_491	980287.32	3742418.94	19.53	0.00	19.53	
PERIOD		2.64849	ug/m^3	RES_492	980287.32	3742438.94	19.66	0.00	19.66	
PERIOD		2.28160	ug/m^3	RES_493	980287.32	3742458.94	19.80	0.00	19.80	
PERIOD		1.97437	ug/m^3	RES_494	980287.32	3742478.94	19.82	0.00	19.82	
PERIOD		1.71401	ug/m^3	RES_495	980287.32	3742498.94	19.86	0.00	19.86	
PERIOD		1.49284	ug/m^3	RES_496	980287.32	3742518.94	19.93	0.00	19.93	
PERIOD		1.30431	ug/m^3	RES_497	980287.32	3742538.94	20.05	0.00	20.05	
PERIOD		1.14356	ug/m^3	RES_498	980287.32	3742558.94	20.20	0.00	20.20	
PERIOD		1.00627	ug/m^3	RES_499	980287.32	3742578.94	20.37	0.00	20.37	
PERIOD		0.89092	ug/m^3	RES_500	980287.32	3742598.94	20.34	0.00	20.34	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.79180	ug/m^3	RES_501	980287.32	3742618.94	20.31	0.00	20.31	
PERIOD		0.70459	ug/m^3	RES_502	980287.32	3742638.94	20.49	0.00	20.49	
PERIOD		0.62921	ug/m^3	RES_503	980287.32	3742658.94	20.68	0.00	20.68	
PERIOD		0.56402	ug/m^3	RES_504	980287.32	3742678.94	20.85	0.00	20.85	
PERIOD		0.50787	ug/m^3	RES_505	980287.32	3742698.94	20.92	0.00	20.92	
PERIOD		0.45872	ug/m^3	RES_506	980287.32	3742718.94	21.01	0.00	21.01	
PERIOD		0.41559	ug/m^3	RES_507	980287.32	3742738.94	21.11	0.00	21.11	
PERIOD		0.37734	ug/m^3	RES_508	980287.32	3742758.94	21.29	0.00	21.29	
PERIOD		0.34434	ug/m^3	RES_509	980287.32	3742778.94	21.26	0.00	21.26	
PERIOD		8.21939	ug/m^3	RES_510	980307.32	3742278.94	18.95	0.00	18.95	
PERIOD		7.04465	ug/m^3	RES_511	980307.32	3742298.94	19.01	0.00	19.01	
PERIOD		6.04152	ug/m^3	RES_512	980307.32	3742318.94	19.09	0.00	19.09	
PERIOD		5.19084	ug/m^3	RES_513	980307.32	3742338.94	19.19	0.00	19.19	
PERIOD		4.47528	ug/m^3	RES_514	980307.32	3742358.94	19.13	0.00	19.13	
PERIOD		3.86903	ug/m^3	RES_515	980307.32	3742378.94	19.22	0.00	19.22	
PERIOD		3.35571	ug/m^3	RES_516	980307.32	3742398.94	19.42	0.00	19.42	
PERIOD		2.92204	ug/m^3	RES_517	980307.32	3742418.94	19.52	0.00	19.52	
PERIOD		2.55266	ug/m^3	RES_518	980307.32	3742438.94	19.60	0.00	19.60	
PERIOD		2.23630	ug/m^3	RES_519	980307.32	3742458.94	19.64	0.00	19.64	
PERIOD		1.96347	ug/m^3	RES_520	980307.32	3742478.94	19.69	0.00	19.69	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.72681	ug/m^3	RES_521	980307.32	3742498.94	19.79	0.00	19.79	
PERIOD		1.52092	ug/m^3	RES_522	980307.32	3742518.94	19.96	0.00	19.96	
PERIOD		1.34262	ug/m^3	RES_523	980307.32	3742538.94	20.12	0.00	20.12	
PERIOD		1.18852	ug/m^3	RES_524	980307.32	3742558.94	20.24	0.00	20.24	
PERIOD		1.05536	ug/m^3	RES_525	980307.32	3742578.94	20.31	0.00	20.31	
PERIOD		0.94090	ug/m^3	RES_526	980307.32	3742598.94	20.25	0.00	20.25	
PERIOD		0.84078	ug/m^3	RES_527	980307.32	3742618.94	20.24	0.00	20.24	
PERIOD		0.75142	ug/m^3	RES_528	980307.32	3742638.94	20.49	0.00	20.49	
PERIOD		0.67400	ug/m^3	RES_529	980307.32	3742658.94	20.66	0.00	20.66	
PERIOD		0.60658	ug/m^3	RES_530	980307.32	3742678.94	20.78	0.00	20.78	
PERIOD		0.54732	ug/m^3	RES_531	980307.32	3742698.94	20.92	0.00	20.92	
PERIOD		0.49548	ug/m^3	RES_532	980307.32	3742718.94	21.01	0.00	21.01	
PERIOD		0.45000	ug/m^3	RES_533	980307.32	3742738.94	21.04	0.00	21.04	
PERIOD		0.40997	ug/m^3	RES_534	980307.32	3742758.94	21.02	0.00	21.02	
PERIOD		0.37460	ug/m^3	RES_535	980307.32	3742778.94	20.96	0.00	20.96	
PERIOD		6.65787	ug/m^3	RES_536	980327.32	3742258.94	18.84	0.00	18.84	
PERIOD		6.07938	ug/m^3	RES_537	980327.32	3742278.94	19.00	0.00	19.00	
PERIOD		5.49346	ug/m^3	RES_538	980327.32	3742298.94	19.09	0.00	19.09	
PERIOD		4.91642	ug/m^3	RES_539	980327.32	3742318.94	19.20	0.00	19.20	
PERIOD		4.37514	ug/m^3	RES_540	980327.32	3742338.94	19.30	0.00	19.30	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.88289	ug/m^3	RES_541	980327.32	3742358.94	19.30	0.00	19.30	
PERIOD		3.43944	ug/m^3	RES_542	980327.32	3742378.94	19.33	0.00	19.33	
PERIOD		3.04683	ug/m^3	RES_543	980327.32	3742398.94	19.36	0.00	19.36	
PERIOD		2.70184	ug/m^3	RES_544	980327.32	3742418.94	19.43	0.00	19.43	
PERIOD		2.39919	ug/m^3	RES_545	980327.32	3742438.94	19.51	0.00	19.51	
PERIOD		2.13340	ug/m^3	RES_546	980327.32	3742458.94	19.60	0.00	19.60	
PERIOD		1.89946	ug/m^3	RES_547	980327.32	3742478.94	19.68	0.00	19.68	
PERIOD		1.69260	ug/m^3	RES_548	980327.32	3742498.94	19.81	0.00	19.81	
PERIOD		1.50856	ug/m^3	RES_549	980327.32	3742518.94	20.06	0.00	20.06	
PERIOD		1.34711	ug/m^3	RES_550	980327.32	3742538.94	20.20	0.00	20.20	
PERIOD		1.20521	ug/m^3	RES_551	980327.32	3742558.94	20.27	0.00	20.27	
PERIOD		1.08098	ug/m^3	RES_552	980327.32	3742578.94	20.22	0.00	20.22	
PERIOD		0.97068	ug/m^3	RES_553	980327.32	3742598.94	20.24	0.00	20.24	
PERIOD		0.87276	ug/m^3	RES_554	980327.32	3742618.94	20.32	0.00	20.32	
PERIOD		0.78551	ug/m^3	RES_555	980327.32	3742638.94	20.50	0.00	20.50	
PERIOD		0.70866	ug/m^3	RES_556	980327.32	3742658.94	20.64	0.00	20.64	
PERIOD		0.64084	ug/m^3	RES_557	980327.32	3742678.94	20.75	0.00	20.75	
PERIOD		0.58066	ug/m^3	RES_558	980327.32	3742698.94	20.88	0.00	20.88	
PERIOD		0.52760	ug/m^3	RES_559	980327.32	3742718.94	20.94	0.00	20.94	
PERIOD		0.48077	ug/m^3	RES_560	980327.32	3742738.94	20.92	0.00	20.92	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.43937	ug/m^3	RES_561	980327.32	3742758.94	20.82	0.00	20.82	
PERIOD		4.52505	ug/m^3	RES_562	980347.32	3742258.94	18.77	0.00	18.77	
PERIOD		4.40817	ug/m^3	RES_563	980347.32	3742278.94	19.00	0.00	19.00	
PERIOD		4.18604	ug/m^3	RES_564	980347.32	3742298.94	19.17	0.00	19.17	
PERIOD		3.90625	ug/m^3	RES_565	980347.32	3742318.94	19.29	0.00	19.29	
PERIOD		3.60077	ug/m^3	RES_566	980347.32	3742338.94	19.35	0.00	19.35	
PERIOD		3.29054	ug/m^3	RES_567	980347.32	3742358.94	19.42	0.00	19.42	
PERIOD		2.98824	ug/m^3	RES_568	980347.32	3742378.94	19.44	0.00	19.44	
PERIOD		2.70372	ug/m^3	RES_569	980347.32	3742398.94	19.40	0.00	19.40	
PERIOD		2.44274	ug/m^3	RES_570	980347.32	3742418.94	19.35	0.00	19.35	
PERIOD		2.20574	ug/m^3	RES_571	980347.32	3742438.94	19.35	0.00	19.35	
PERIOD		1.99099	ug/m^3	RES_572	980347.32	3742458.94	19.47	0.00	19.47	
PERIOD		1.79723	ug/m^3	RES_573	980347.32	3742478.94	19.60	0.00	19.60	
PERIOD		1.62222	ug/m^3	RES_574	980347.32	3742498.94	19.77	0.00	19.77	
PERIOD		1.46409	ug/m^3	RES_575	980347.32	3742518.94	19.99	0.00	19.99	
PERIOD		1.32259	ug/m^3	RES_576	980347.32	3742538.94	20.11	0.00	20.11	
PERIOD		1.19591	ug/m^3	RES_577	980347.32	3742558.94	20.16	0.00	20.16	
PERIOD		1.08298	ug/m^3	RES_578	980347.32	3742578.94	20.10	0.00	20.10	
PERIOD		0.98055	ug/m^3	RES_579	980347.32	3742598.94	20.18	0.00	20.18	
PERIOD		0.88819	ug/m^3	RES_580	980347.32	3742618.94	20.33	0.00	20.33	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.80560	ug/m^3	RES_581	980347.32	3742638.94	20.45	0.00	20.45	
PERIOD		0.73144	ug/m^3	RES_582	980347.32	3742658.94	20.60	0.00	20.60	
PERIOD		0.66486	ug/m^3	RES_583	980347.32	3742678.94	20.78	0.00	20.78	
PERIOD		0.60604	ug/m^3	RES_584	980347.32	3742698.94	20.80	0.00	20.80	
PERIOD		0.55348	ug/m^3	RES_585	980347.32	3742718.94	20.78	0.00	20.78	
PERIOD		0.50651	ug/m^3	RES_586	980347.32	3742738.94	20.71	0.00	20.71	
PERIOD		3.19890	ug/m^3	RES_587	980367.32	3742298.94	19.21	0.00	19.21	
PERIOD		3.08465	ug/m^3	RES_588	980367.32	3742318.94	19.35	0.00	19.35	
PERIOD		2.92977	ug/m^3	RES_589	980367.32	3742338.94	19.38	0.00	19.38	
PERIOD		2.74841	ug/m^3	RES_590	980367.32	3742358.94	19.47	0.00	19.47	
PERIOD		2.55425	ug/m^3	RES_591	980367.32	3742378.94	19.49	0.00	19.49	
PERIOD		2.35855	ug/m^3	RES_592	980367.32	3742398.94	19.44	0.00	19.44	
PERIOD		2.16904	ug/m^3	RES_593	980367.32	3742418.94	19.35	0.00	19.35	
PERIOD		1.99031	ug/m^3	RES_594	980367.32	3742438.94	19.30	0.00	19.30	
PERIOD		1.82351	ug/m^3	RES_595	980367.32	3742458.94	19.31	0.00	19.31	
PERIOD		1.66859	ug/m^3	RES_596	980367.32	3742478.94	19.45	0.00	19.45	
PERIOD		1.52540	ug/m^3	RES_597	980367.32	3742498.94	19.63	0.00	19.63	
PERIOD		1.39346	ug/m^3	RES_598	980367.32	3742518.94	19.84	0.00	19.84	
PERIOD		1.27319	ug/m^3	RES_599	980367.32	3742538.94	19.92	0.00	19.92	
PERIOD		1.16340	ug/m^3	RES_600	980367.32	3742558.94	19.96	0.00	19.96	

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.06272	ug/m^3	RES_601	980367.32	3742578.94	20.06	0.00	20.06	
PERIOD		0.97086	ug/m^3	RES_602	980367.32	3742598.94	20.16	0.00	20.16	
PERIOD		0.88721	ug/m^3	RES_603	980367.32	3742618.94	20.26	0.00	20.26	
PERIOD		0.81077	ug/m^3	RES_604	980367.32	3742638.94	20.42	0.00	20.42	
PERIOD		0.74140	ug/m^3	RES_605	980367.32	3742658.94	20.57	0.00	20.57	
PERIOD		0.67856	ug/m^3	RES_606	980367.32	3742678.94	20.70	0.00	20.70	
PERIOD		0.62239	ug/m^3	RES_607	980367.32	3742698.94	20.66	0.00	20.66	
PERIOD		0.57149	ug/m^3	RES_608	980367.32	3742718.94	20.61	0.00	20.61	
PERIOD		2.45890	ug/m^3	RES_609	980387.32	3742318.94	19.26	0.00	19.26	
PERIOD		2.38685	ug/m^3	RES_610	980387.32	3742338.94	19.45	0.00	19.45	
PERIOD		2.28596	ug/m^3	RES_611	980387.32	3742358.94	19.49	0.00	19.49	
PERIOD		2.16590	ug/m^3	RES_612	980387.32	3742378.94	19.47	0.00	19.47	
PERIOD		2.03597	ug/m^3	RES_613	980387.32	3742398.94	19.40	0.00	19.40	
PERIOD		1.90328	ug/m^3	RES_614	980387.32	3742418.94	19.39	0.00	19.39	
PERIOD		1.77217	ug/m^3	RES_615	980387.32	3742438.94	19.32	0.00	19.32	
PERIOD		1.64591	ug/m^3	RES_616	980387.32	3742458.94	19.17	0.00	19.17	
PERIOD		1.52567	ug/m^3	RES_617	980387.32	3742478.94	19.25	0.00	19.25	
PERIOD		1.41184	ug/m^3	RES_618	980387.32	3742498.94	19.41	0.00	19.41	
PERIOD		1.30464	ug/m^3	RES_619	980387.32	3742518.94	19.62	0.00	19.62	
PERIOD		1.20474	ug/m^3	RES_620	980387.32	3742538.94	19.73	0.00	19.73	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.11182	ug/m^3	RES_621	980387.32	3742558.94	19.81	0.00	19.81	
PERIOD		1.02499	ug/m^3	RES_622	980387.32	3742578.94	19.99	0.00	19.99	
PERIOD		0.94475	ug/m^3	RES_623	980387.32	3742598.94	20.12	0.00	20.12	
PERIOD		0.87083	ug/m^3	RES_624	980387.32	3742618.94	20.20	0.00	20.20	
PERIOD		0.80218	ug/m^3	RES_625	980387.32	3742638.94	20.37	0.00	20.37	
PERIOD		0.73918	ug/m^3	RES_626	980387.32	3742658.94	20.49	0.00	20.49	
PERIOD		0.68157	ug/m^3	RES_627	980387.32	3742678.94	20.54	0.00	20.54	
PERIOD		0.62903	ug/m^3	RES_628	980387.32	3742698.94	20.51	0.00	20.51	
PERIOD		1.90795	ug/m^3	RES_629	980407.32	3742358.94	19.32	0.00	19.32	
PERIOD		1.83600	ug/m^3	RES_630	980407.32	3742378.94	19.39	0.00	19.39	
PERIOD		1.75150	ug/m^3	RES_631	980407.32	3742398.94	19.39	0.00	19.39	
PERIOD		1.65935	ug/m^3	RES_632	980407.32	3742418.94	19.20	0.00	19.20	
PERIOD		1.56478	ug/m^3	RES_633	980407.32	3742438.94	19.00	0.00	19.00	
PERIOD		1.47126	ug/m^3	RES_634	980407.32	3742458.94	19.04	0.00	19.04	
PERIOD		1.37962	ug/m^3	RES_635	980407.32	3742478.94	19.09	0.00	19.09	
PERIOD		1.29089	ug/m^3	RES_636	980407.32	3742498.94	19.17	0.00	19.17	
PERIOD		1.20559	ug/m^3	RES_637	980407.32	3742518.94	19.39	0.00	19.39	
PERIOD		1.12421	ug/m^3	RES_638	980407.32	3742538.94	19.59	0.00	19.59	
PERIOD		1.04700	ug/m^3	RES_639	980407.32	3742558.94	19.78	0.00	19.78	
PERIOD		0.97423	ug/m^3	RES_640	980407.32	3742578.94	19.92	0.00	19.92	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.90582	ug/m^3	RES_641	980407.32	3742598.94	20.05	0.00	20.05	
PERIOD		0.84167	ug/m^3	RES_642	980407.32	3742618.94	20.18	0.00	20.18	
PERIOD		0.78167	ug/m^3	RES_643	980407.32	3742638.94	20.31	0.00	20.31	
PERIOD		0.72589	ug/m^3	RES_644	980407.32	3742658.94	20.38	0.00	20.38	
PERIOD		0.67414	ug/m^3	RES_645	980407.32	3742678.94	20.40	0.00	20.40	
PERIOD		0.62617	ug/m^3	RES_646	980407.32	3742698.94	20.39	0.00	20.39	
PERIOD		1.56275	ug/m^3	RES_647	980427.32	3742378.94	19.03	0.00	19.03	
PERIOD		1.50797	ug/m^3	RES_648	980427.32	3742398.94	19.02	0.00	19.02	
PERIOD		1.44483	ug/m^3	RES_649	980427.32	3742418.94	18.85	0.00	18.85	
PERIOD		1.37779	ug/m^3	RES_650	980427.32	3742438.94	18.71	0.00	18.71	
PERIOD		1.30876	ug/m^3	RES_651	980427.32	3742458.94	18.94	0.00	18.94	
PERIOD		1.23949	ug/m^3	RES_652	980427.32	3742478.94	19.10	0.00	19.10	
PERIOD		1.17077	ug/m^3	RES_653	980427.32	3742498.94	19.22	0.00	19.22	
PERIOD		1.10346	ug/m^3	RES_654	980427.32	3742518.94	19.44	0.00	19.44	
PERIOD		1.03810	ug/m^3	RES_655	980427.32	3742538.94	19.64	0.00	19.64	
PERIOD		0.97515	ug/m^3	RES_656	980427.32	3742558.94	19.82	0.00	19.82	
PERIOD		0.91521	ug/m^3	RES_657	980427.32	3742578.94	19.86	0.00	19.86	
PERIOD		0.85789	ug/m^3	RES_658	980427.32	3742598.94	19.98	0.00	19.98	
PERIOD		0.80313	ug/m^3	RES_659	980427.32	3742618.94	20.19	0.00	20.19	
PERIOD		0.75179	ug/m^3	RES_660	980427.32	3742638.94	20.23	0.00	20.23	

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PERIOD		0.70334	ug/m^3	RES_661	980427.32	3742658.94	20.26	0.00	20.26	
PERIOD		0.65772	ug/m^3	RES_662	980427.32	3742678.94	20.28	0.00	20.28	
PERIOD		1.21457	ug/m^3	RES_663	980447.32	3742438.94	18.48	0.00	18.48	
PERIOD		1.16320	ug/m^3	RES_664	980447.32	3742458.94	18.79	0.00	18.79	
PERIOD		1.11064	ug/m^3	RES_665	980447.32	3742478.94	19.05	0.00	19.05	
PERIOD		1.05757	ug/m^3	RES_666	980447.32	3742498.94	19.26	0.00	19.26	
PERIOD		1.00463	ug/m^3	RES_667	980447.32	3742518.94	19.45	0.00	19.45	
PERIOD		0.95248	ug/m^3	RES_668	980447.32	3742538.94	19.55	0.00	19.55	
PERIOD		0.90176	ug/m^3	RES_669	980447.32	3742558.94	19.57	0.00	19.57	
PERIOD		0.85246	ug/m^3	RES_670	980447.32	3742578.94	19.72	0.00	19.72	
PERIOD		0.80481	ug/m^3	RES_671	980447.32	3742598.94	19.90	0.00	19.90	
PERIOD		0.75902	ug/m^3	RES_672	980447.32	3742618.94	20.06	0.00	20.06	
PERIOD		0.71542	ug/m^3	RES_673	980447.32	3742638.94	20.11	0.00	20.11	
PERIOD		0.67382	ug/m^3	RES_674	980447.32	3742658.94	20.15	0.00	20.15	
PERIOD		0.99529	ug/m^3	RES_675	980467.32	3742478.94	18.84	0.00	18.84	
PERIOD		0.95412	ug/m^3	RES_676	980467.32	3742498.94	19.14	0.00	19.14	
PERIOD		0.91238	ug/m^3	RES_677	980467.32	3742518.94	19.33	0.00	19.33	
PERIOD		0.87065	ug/m^3	RES_678	980467.32	3742538.94	19.38	0.00	19.38	
PERIOD		0.82963	ug/m^3	RES_679	980467.32	3742558.94	19.26	0.00	19.26	
PERIOD		0.71186	ug/m^3	RES_680	980467.32	3742618.94	19.89	0.00	19.89	

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PERIOD		0.67505	ug/m^3	RES_681	980467.32	3742638.94	20.00	0.00	20.00	
PERIOD		0.82830	ug/m^3	RES_682	980487.32	3742518.94	19.06	0.00	19.06	
PERIOD		0.79472	ug/m^3	RES_683	980487.32	3742538.94	19.14	0.00	19.14	
PERIOD		0.22533	ug/m^3	P_001	980077.18	3742616.83	20.05	0.00	20.05	
PERIOD		0.20556	ug/m^3	P_002	980077.18	3742636.83	20.26	0.00	20.26	
PERIOD		0.18809	ug/m^3	P_003	980077.18	3742656.83	20.55	0.00	20.55	
PERIOD		0.17315	ug/m^3	P_004	980077.18	3742676.83	20.68	0.00	20.68	
PERIOD		0.16021	ug/m^3	P_005	980077.18	3742696.83	20.68	0.00	20.68	
PERIOD		0.14892	ug/m^3	P_006	980077.18	3742716.83	20.55	0.00	20.55	
PERIOD		0.13876	ug/m^3	P_007	980077.18	3742736.83	20.45	0.00	20.45	
PERIOD		0.25272	ug/m^3	P_008	980097.18	3742616.83	20.12	0.00	20.12	
PERIOD		0.22915	ug/m^3	P_009	980097.18	3742636.83	20.39	0.00	20.39	
PERIOD		0.20840	ug/m^3	P_010	980097.18	3742656.83	20.78	0.00	20.78	
PERIOD		0.19095	ug/m^3	P_011	980097.18	3742676.83	20.96	0.00	20.96	
PERIOD		0.17605	ug/m^3	P_012	980097.18	3742696.83	20.96	0.00	20.96	
PERIOD		0.16341	ug/m^3	P_013	980097.18	3742716.83	20.69	0.00	20.69	
PERIOD		0.15186	ug/m^3	P_014	980097.18	3742736.83	20.55	0.00	20.55	
PERIOD		0.25753	ug/m^3	P_015	980117.18	3742636.83	20.48	0.00	20.48	
PERIOD		0.23329	ug/m^3	P_016	980117.18	3742656.83	20.83	0.00	20.83	
PERIOD		0.21290	ug/m^3	P_017	980117.18	3742676.83	21.00	0.00	21.00	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.19562	ug/m^3	P_018	980117.18	3742696.83	20.97	0.00	20.97	
PERIOD		0.18095	ug/m^3	P_019	980117.18	3742716.83	20.70	0.00	20.70	
PERIOD		0.16754	ug/m^3	P_020	980117.18	3742736.83	20.59	0.00	20.59	
PERIOD		0.26330	ug/m^3	P_021	980137.18	3742656.83	20.81	0.00	20.81	
PERIOD		0.23943	ug/m^3	P_022	980137.18	3742676.83	20.94	0.00	20.94	
PERIOD		0.21929	ug/m^3	P_023	980137.18	3742696.83	20.86	0.00	20.86	
PERIOD		0.20203	ug/m^3	P_024	980137.18	3742716.83	20.62	0.00	20.62	
PERIOD		0.18623	ug/m^3	P_025	980137.18	3742736.83	20.58	0.00	20.58	
PERIOD		0.24736	ug/m^3	P_026	980157.18	3742696.83	20.73	0.00	20.73	
PERIOD		0.22664	ug/m^3	P_027	980157.18	3742716.83	20.61	0.00	20.61	
PERIOD		0.25463	ug/m^3	P_028	980177.18	3742716.83	20.77	0.00	20.77	
PERIOD		0.16822	ug/m^3	S_001	980089.92	3741804.77	17.51	0.00	17.51	
PERIOD		0.19045	ug/m^3	S_002	980089.92	3741824.77	17.50	0.00	17.50	
PERIOD		0.21767	ug/m^3	S_003	980089.92	3741844.77	17.49	0.00	17.49	
PERIOD		0.25143	ug/m^3	S_004	980089.92	3741864.77	17.48	0.00	17.48	
PERIOD		0.29414	ug/m^3	S_005	980089.92	3741884.77	17.50	0.00	17.50	
PERIOD		0.34916	ug/m^3	S_006	980089.92	3741904.77	17.51	0.00	17.51	
PERIOD		0.42211	ug/m^3	S_007	980089.92	3741924.77	17.51	0.00	17.51	
PERIOD		0.52188	ug/m^3	S_008	980089.92	3741944.77	17.53	0.00	17.53	
PERIOD		0.66445	ug/m^3	S_009	980089.92	3741964.77	17.60	0.00	17.60	

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PERIOD		0.88232	ug/m^3	S_010	980089.92	3741984.77	17.73	0.00	17.73	
PERIOD		1.22772	ug/m^3	S_011	980089.92	3742004.77	17.79	0.00	17.79	
PERIOD		1.84823	ug/m^3	S_012	980089.92	3742024.77	17.88	0.00	17.88	
PERIOD		0.16674	ug/m^3	S_013	980109.92	3741804.77	17.01	0.00	17.01	
PERIOD		0.18849	ug/m^3	S_014	980109.92	3741824.77	17.12	0.00	17.12	
PERIOD		0.21510	ug/m^3	S_015	980109.92	3741844.77	17.17	0.00	17.17	
PERIOD		0.24810	ug/m^3	S_016	980109.92	3741864.77	17.19	0.00	17.19	
PERIOD		0.28977	ug/m^3	S_017	980109.92	3741884.77	17.14	0.00	17.14	
PERIOD		0.34339	ug/m^3	S_018	980109.92	3741904.77	17.12	0.00	17.12	
PERIOD		0.41424	ug/m^3	S_019	980109.92	3741924.77	17.14	0.00	17.14	
PERIOD		0.51019	ug/m^3	S_020	980109.92	3741944.77	17.24	0.00	17.24	
PERIOD		0.64469	ug/m^3	S_021	980109.92	3741964.77	17.37	0.00	17.37	
PERIOD		0.84213	ug/m^3	S_022	980109.92	3741984.77	17.53	0.00	17.53	
PERIOD		1.15055	ug/m^3	S_023	980109.92	3742004.77	17.68	0.00	17.68	
PERIOD		1.68042	ug/m^3	S_024	980109.92	3742024.77	17.81	0.00	17.81	
PERIOD		0.14737	ug/m^3	S_025	980129.92	3741784.77	16.84	0.00	16.84	
PERIOD		0.16495	ug/m^3	S_026	980129.92	3741804.77	16.83	0.00	16.83	
PERIOD		0.18617	ug/m^3	S_027	980129.92	3741824.77	16.98	0.00	16.98	
PERIOD		0.21206	ug/m^3	S_028	980129.92	3741844.77	17.06	0.00	17.06	
PERIOD		0.24410	ug/m^3	S_029	980129.92	3741864.77	17.08	0.00	17.08	

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PERIOD		0.28435	ug/m^3	S_030	980129.92	3741884.77	16.92	0.00	16.92	
PERIOD		0.33586	ug/m^3	S_031	980129.92	3741904.77	16.85	0.00	16.85	
PERIOD		0.40318	ug/m^3	S_032	980129.92	3741924.77	16.84	0.00	16.84	
PERIOD		0.49378	ug/m^3	S_033	980129.92	3741944.77	17.00	0.00	17.00	
PERIOD		0.61901	ug/m^3	S_034	980129.92	3741964.77	17.17	0.00	17.17	
PERIOD		0.79926	ug/m^3	S_035	980129.92	3741984.77	17.36	0.00	17.36	
PERIOD		1.07222	ug/m^3	S_036	980129.92	3742004.77	17.59	0.00	17.59	
PERIOD		1.52385	ug/m^3	S_037	980129.92	3742024.77	17.79	0.00	17.79	
PERIOD		0.13131	ug/m^3	S_038	980149.92	3741764.77	16.72	0.00	16.72	
PERIOD		0.14572	ug/m^3	S_039	980149.92	3741784.77	16.69	0.00	16.69	
PERIOD		0.16285	ug/m^3	S_040	980149.92	3741804.77	16.79	0.00	16.79	
PERIOD		0.18347	ug/m^3	S_041	980149.92	3741824.77	16.94	0.00	16.94	
PERIOD		0.20852	ug/m^3	S_042	980149.92	3741844.77	17.06	0.00	17.06	
PERIOD		0.23929	ug/m^3	S_043	980149.92	3741864.77	17.15	0.00	17.15	
PERIOD		0.27773	ug/m^3	S_044	980149.92	3741884.77	17.01	0.00	17.01	
PERIOD		0.32659	ug/m^3	S_045	980149.92	3741904.77	16.86	0.00	16.86	
PERIOD		0.38989	ug/m^3	S_046	980149.92	3741924.77	16.70	0.00	16.70	
PERIOD		0.47398	ug/m^3	S_047	980149.92	3741944.77	16.84	0.00	16.84	
PERIOD		0.58877	ug/m^3	S_048	980149.92	3741964.77	17.04	0.00	17.04	
PERIOD		0.75104	ug/m^3	S_049	980149.92	3741984.77	17.25	0.00	17.25	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.99157	ug/m^3	S_050	980149.92	3742004.77	17.53	0.00	17.53	
PERIOD		1.37477	ug/m^3	S_051	980149.92	3742024.77	17.79	0.00	17.79	
PERIOD		2.04737	ug/m^3	S_052	980149.92	3742044.77	17.92	0.00	17.92	
PERIOD		0.11778	ug/m^3	S_053	980169.92	3741744.77	16.64	0.00	16.64	
PERIOD		0.12973	ug/m^3	S_054	980169.92	3741764.77	16.56	0.00	16.56	
PERIOD		0.14376	ug/m^3	S_055	980169.92	3741784.77	16.62	0.00	16.62	
PERIOD		0.16036	ug/m^3	S_056	980169.92	3741804.77	16.78	0.00	16.78	
PERIOD		0.18025	ug/m^3	S_057	980169.92	3741824.77	16.89	0.00	16.89	
PERIOD		0.20428	ug/m^3	S_058	980169.92	3741844.77	16.99	0.00	16.99	
PERIOD		0.23364	ug/m^3	S_059	980169.92	3741864.77	17.09	0.00	17.09	
PERIOD		0.27007	ug/m^3	S_060	980169.92	3741884.77	17.08	0.00	17.08	
PERIOD		0.31595	ug/m^3	S_061	980169.92	3741904.77	17.05	0.00	17.05	
PERIOD		0.37481	ug/m^3	S_062	980169.92	3741924.77	16.98	0.00	16.98	
PERIOD		0.45200	ug/m^3	S_063	980169.92	3741944.77	16.98	0.00	16.98	
PERIOD		0.55577	ug/m^3	S_064	980169.92	3741964.77	17.02	0.00	17.02	
PERIOD		0.69977	ug/m^3	S_065	980169.92	3741984.77	17.17	0.00	17.17	
PERIOD		0.90856	ug/m^3	S_066	980169.92	3742004.77	17.45	0.00	17.45	
PERIOD		1.22924	ug/m^3	S_067	980169.92	3742024.77	17.74	0.00	17.74	
PERIOD		1.77436	ug/m^3	S_068	980169.92	3742044.77	17.96	0.00	17.96	
PERIOD		0.11622	ug/m^3	S_069	980189.92	3741744.77	16.36	0.00	16.36	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.12781	ug/m^3	S_070	980189.92	3741764.77	16.46	0.00	16.46	
PERIOD		0.14138	ug/m^3	S_071	980189.92	3741784.77	16.60	0.00	16.60	
PERIOD		0.15739	ug/m^3	S_072	980189.92	3741804.77	16.77	0.00	16.77	
PERIOD		0.17644	ug/m^3	S_073	980189.92	3741824.77	16.85	0.00	16.85	
PERIOD		0.19935	ug/m^3	S_074	980189.92	3741844.77	16.94	0.00	16.94	
PERIOD		0.22721	ug/m^3	S_075	980189.92	3741864.77	17.03	0.00	17.03	
PERIOD		0.26145	ug/m^3	S_076	980189.92	3741884.77	17.15	0.00	17.15	
PERIOD		0.30418	ug/m^3	S_077	980189.92	3741904.77	17.25	0.00	17.25	
PERIOD		0.35840	ug/m^3	S_078	980189.92	3741924.77	17.33	0.00	17.33	
PERIOD		0.42858	ug/m^3	S_079	980189.92	3741944.77	17.28	0.00	17.28	
PERIOD		0.52138	ug/m^3	S_080	980189.92	3741964.77	17.21	0.00	17.21	
PERIOD		0.64794	ug/m^3	S_081	980189.92	3741984.77	17.14	0.00	17.14	
PERIOD		0.82735	ug/m^3	S_082	980189.92	3742004.77	17.30	0.00	17.30	
PERIOD		1.09513	ug/m^3	S_083	980189.92	3742024.77	17.56	0.00	17.56	
PERIOD		1.53129	ug/m^3	S_084	980189.92	3742044.77	17.88	0.00	17.88	
PERIOD		0.10468	ug/m^3	S_085	980209.92	3741724.77	16.33	0.00	16.33	
PERIOD		0.11434	ug/m^3	S_086	980209.92	3741744.77	16.26	0.00	16.26	
PERIOD		0.12553	ug/m^3	S_087	980209.92	3741764.77	16.43	0.00	16.43	
PERIOD		0.13859	ug/m^3	S_088	980209.92	3741784.77	16.59	0.00	16.59	
PERIOD		0.15390	ug/m^3	S_089	980209.92	3741804.77	16.75	0.00	16.75	

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Tustin District Office Project
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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.17206	ug/m^3	S_090	980209.92	3741824.77	16.83	0.00	16.83	
PERIOD		0.19375	ug/m^3	S_091	980209.92	3741844.77	16.93	0.00	16.93	
PERIOD		0.21995	ug/m^3	S_092	980209.92	3741864.77	17.05	0.00	17.05	
PERIOD		0.25193	ug/m^3	S_093	980209.92	3741884.77	17.24	0.00	17.24	
PERIOD		0.29144	ug/m^3	S_094	980209.92	3741904.77	17.43	0.00	17.43	
PERIOD		0.34102	ug/m^3	S_095	980209.92	3741924.77	17.63	0.00	17.63	
PERIOD		0.40432	ug/m^3	S_096	980209.92	3741944.77	17.60	0.00	17.60	
PERIOD		0.48689	ug/m^3	S_097	980209.92	3741964.77	17.46	0.00	17.46	
PERIOD		0.59756	ug/m^3	S_098	980209.92	3741984.77	17.20	0.00	17.20	
PERIOD		0.75120	ug/m^3	S_099	980209.92	3742004.77	17.19	0.00	17.19	
PERIOD		0.97468	ug/m^3	S_100	980209.92	3742024.77	17.35	0.00	17.35	
PERIOD		1.32352	ug/m^3	S_101	980209.92	3742044.77	17.75	0.00	17.75	
PERIOD		1.93797	ug/m^3	S_102	980209.92	3742064.77	17.97	0.00	17.97	
PERIOD		0.09471	ug/m^3	S_103	980229.92	3741704.77	16.26	0.00	16.26	
PERIOD		0.10283	ug/m^3	S_104	980229.92	3741724.77	16.15	0.00	16.15	
PERIOD		0.11215	ug/m^3	S_105	980229.92	3741744.77	16.23	0.00	16.23	
PERIOD		0.12289	ug/m^3	S_106	980229.92	3741764.77	16.38	0.00	16.38	
PERIOD		0.13536	ug/m^3	S_107	980229.92	3741784.77	16.52	0.00	16.52	
PERIOD		0.14995	ug/m^3	S_108	980229.92	3741804.77	16.65	0.00	16.65	
PERIOD		0.16712	ug/m^3	S_109	980229.92	3741824.77	16.79	0.00	16.79	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.18753	ug/m^3	S_110	980229.92	3741844.77	16.95	0.00	16.95	
PERIOD		0.21200	ug/m^3	S_111	980229.92	3741864.77	17.16	0.00	17.16	
PERIOD		0.24164	ug/m^3	S_112	980229.92	3741884.77	17.36	0.00	17.36	
PERIOD		0.27794	ug/m^3	S_113	980229.92	3741904.77	17.57	0.00	17.57	
PERIOD		0.32297	ug/m^3	S_114	980229.92	3741924.77	17.81	0.00	17.81	
PERIOD		0.37979	ug/m^3	S_115	980229.92	3741944.77	17.82	0.00	17.82	
PERIOD		0.45291	ug/m^3	S_116	980229.92	3741964.77	17.68	0.00	17.68	
PERIOD		0.54938	ug/m^3	S_117	980229.92	3741984.77	17.30	0.00	17.30	
PERIOD		0.68063	ug/m^3	S_118	980229.92	3742004.77	17.17	0.00	17.17	
PERIOD		0.86685	ug/m^3	S_119	980229.92	3742024.77	17.20	0.00	17.20	
PERIOD		1.14670	ug/m^3	S_120	980229.92	3742044.77	17.62	0.00	17.62	
PERIOD		1.60461	ug/m^3	S_121	980229.92	3742064.77	17.87	0.00	17.87	
PERIOD		0.09291	ug/m^3	S_122	980249.92	3741704.77	16.07	0.00	16.07	
PERIOD		0.10072	ug/m^3	S_123	980249.92	3741724.77	16.05	0.00	16.05	
PERIOD		0.10965	ug/m^3	S_124	980249.92	3741744.77	16.19	0.00	16.19	
PERIOD		0.11991	ug/m^3	S_125	980249.92	3741764.77	16.33	0.00	16.33	
PERIOD		0.13176	ug/m^3	S_126	980249.92	3741784.77	16.45	0.00	16.45	
PERIOD		0.14554	ug/m^3	S_127	980249.92	3741804.77	16.57	0.00	16.57	
PERIOD		0.16170	ug/m^3	S_128	980249.92	3741824.77	16.74	0.00	16.74	
PERIOD		0.18078	ug/m^3	S_129	980249.92	3741844.77	16.95	0.00	16.95	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.20349	ug/m^3	S_130	980249.92	3741864.77	17.20	0.00	17.20	
PERIOD		0.23077	ug/m^3	S_131	980249.92	3741884.77	17.41	0.00	17.41	
PERIOD		0.26388	ug/m^3	S_132	980249.92	3741904.77	17.62	0.00	17.62	
PERIOD		0.30458	ug/m^3	S_133	980249.92	3741924.77	17.91	0.00	17.91	
PERIOD		0.35533	ug/m^3	S_134	980249.92	3741944.77	17.95	0.00	17.95	
PERIOD		0.41981	ug/m^3	S_135	980249.92	3741964.77	17.83	0.00	17.83	
PERIOD		0.50361	ug/m^3	S_136	980249.92	3741984.77	17.44	0.00	17.44	
PERIOD		0.61539	ug/m^3	S_137	980249.92	3742004.77	17.23	0.00	17.23	
PERIOD		0.77011	ug/m^3	S_138	980249.92	3742024.77	17.19	0.00	17.19	
PERIOD		0.99449	ug/m^3	S_139	980249.92	3742044.77	17.55	0.00	17.55	
PERIOD		1.34076	ug/m^3	S_140	980249.92	3742064.77	17.82	0.00	17.82	
PERIOD		1.92676	ug/m^3	S_141	980249.92	3742084.77	17.99	0.00	17.99	
PERIOD		0.08430	ug/m^3	S_142	980269.92	3741684.77	15.98	0.00	15.98	
PERIOD		0.09091	ug/m^3	S_143	980269.92	3741704.77	15.93	0.00	15.93	
PERIOD		0.09838	ug/m^3	S_144	980269.92	3741724.77	16.00	0.00	16.00	
PERIOD		0.10688	ug/m^3	S_145	980269.92	3741744.77	16.14	0.00	16.14	
PERIOD		0.11662	ug/m^3	S_146	980269.92	3741764.77	16.28	0.00	16.28	
PERIOD		0.12781	ug/m^3	S_147	980269.92	3741784.77	16.41	0.00	16.41	
PERIOD		0.14076	ug/m^3	S_148	980269.92	3741804.77	16.54	0.00	16.54	
PERIOD		0.15586	ug/m^3	S_149	980269.92	3741824.77	16.74	0.00	16.74	

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.17358	ug/m^3	S_150	980269.92	3741844.77	16.96	0.00	16.96	
PERIOD		0.19451	ug/m^3	S_151	980269.92	3741864.77	17.20	0.00	17.20	
PERIOD		0.21946	ug/m^3	S_152	980269.92	3741884.77	17.42	0.00	17.42	
PERIOD		0.24948	ug/m^3	S_153	980269.92	3741904.77	17.65	0.00	17.65	
PERIOD		0.28603	ug/m^3	S_154	980269.92	3741924.77	17.83	0.00	17.83	
PERIOD		0.33112	ug/m^3	S_155	980269.92	3741944.77	17.87	0.00	17.87	
PERIOD		0.38770	ug/m^3	S_156	980269.92	3741964.77	17.81	0.00	17.81	
PERIOD		0.46008	ug/m^3	S_157	980269.92	3741984.77	17.53	0.00	17.53	
PERIOD		0.55492	ug/m^3	S_158	980269.92	3742004.77	17.37	0.00	17.37	
PERIOD		0.68307	ug/m^3	S_159	980269.92	3742024.77	17.32	0.00	17.32	
PERIOD		0.86305	ug/m^3	S_160	980269.92	3742044.77	17.57	0.00	17.57	
PERIOD		1.12889	ug/m^3	S_161	980269.92	3742064.77	17.80	0.00	17.80	
PERIOD		1.54700	ug/m^3	S_162	980269.92	3742084.77	18.02	0.00	18.02	
PERIOD		2.26187	ug/m^3	S_163	980269.92	3742104.77	18.10	0.00	18.10	
PERIOD		0.08242	ug/m^3	S_164	980289.92	3741684.77	15.88	0.00	19.14	
PERIOD		0.08872	ug/m^3	S_165	980289.92	3741704.77	15.82	0.00	15.82	
PERIOD		0.09584	ug/m^3	S_166	980289.92	3741724.77	15.94	0.00	15.94	
PERIOD		0.10390	ug/m^3	S_167	980289.92	3741744.77	16.09	0.00	16.09	
PERIOD		0.11308	ug/m^3	S_168	980289.92	3741764.77	16.24	0.00	16.24	
PERIOD		0.12359	ug/m^3	S_169	980289.92	3741784.77	16.40	0.00	16.40	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.13570	ug/m^3	S_170	980289.92	3741804.77	16.58	0.00	16.58	
PERIOD		0.14971	ug/m^3	S_171	980289.92	3741824.77	16.80	0.00	16.80	
PERIOD		0.16606	ug/m^3	S_172	980289.92	3741844.77	17.02	0.00	17.02	
PERIOD		0.18524	ug/m^3	S_173	980289.92	3741864.77	17.23	0.00	17.23	
PERIOD		0.20791	ug/m^3	S_174	980289.92	3741884.77	17.46	0.00	17.46	
PERIOD		0.23495	ug/m^3	S_175	980289.92	3741904.77	17.66	0.00	17.66	
PERIOD		0.26758	ug/m^3	S_176	980289.92	3741924.77	17.71	0.00	17.71	
PERIOD		0.30742	ug/m^3	S_177	980289.92	3741944.77	17.76	0.00	17.76	
PERIOD		0.35674	ug/m^3	S_178	980289.92	3741964.77	17.80	0.00	17.80	
PERIOD		0.41893	ug/m^3	S_179	980289.92	3741984.77	17.62	0.00	17.62	
PERIOD		0.49897	ug/m^3	S_180	980289.92	3742004.77	17.48	0.00	17.48	
PERIOD		0.60473	ug/m^3	S_181	980289.92	3742024.77	17.36	0.00	17.36	
PERIOD		0.74905	ug/m^3	S_182	980289.92	3742044.77	17.56	0.00	17.56	
PERIOD		0.95412	ug/m^3	S_183	980289.92	3742064.77	17.78	0.00	17.78	
PERIOD		1.25981	ug/m^3	S_184	980289.92	3742084.77	18.02	0.00	18.02	
PERIOD		1.74138	ug/m^3	S_185	980289.92	3742104.77	18.15	0.00	18.15	
PERIOD		2.54828	ug/m^3	S_186	980289.92	3742124.77	18.24	0.00	18.24	
PERIOD		0.08040	ug/m^3	S_187	980309.92	3741684.77	15.84	0.00	15.84	
PERIOD		0.08639	ug/m^3	S_188	980309.92	3741704.77	15.78	0.00	15.78	
PERIOD		0.09313	ug/m^3	S_189	980309.92	3741724.77	15.91	0.00	15.91	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.10073	ug/m^3	S_190	980309.92	3741744.77	16.07	0.00	16.07	
PERIOD		0.10936	ug/m^3	S_191	980309.92	3741764.77	16.25	0.00	16.25	
PERIOD		0.11918	ug/m^3	S_192	980309.92	3741784.77	16.44	0.00	16.44	
PERIOD		0.13042	ug/m^3	S_193	980309.92	3741804.77	16.66	0.00	16.66	
PERIOD		0.14336	ug/m^3	S_194	980309.92	3741824.77	16.89	0.00	16.89	
PERIOD		0.15836	ug/m^3	S_195	980309.92	3741844.77	17.13	0.00	17.13	
PERIOD		0.17582	ug/m^3	S_196	980309.92	3741864.77	17.37	0.00	17.37	
PERIOD		0.19630	ug/m^3	S_197	980309.92	3741884.77	17.55	0.00	17.55	
PERIOD		0.22053	ug/m^3	S_198	980309.92	3741904.77	17.68	0.00	17.68	
PERIOD		0.24948	ug/m^3	S_199	980309.92	3741924.77	17.67	0.00	17.67	
PERIOD		0.28444	ug/m^3	S_200	980309.92	3741944.77	17.76	0.00	17.76	
PERIOD		0.32718	ug/m^3	S_201	980309.92	3741964.77	17.93	0.00	17.93	
PERIOD		0.38032	ug/m^3	S_202	980309.92	3741984.77	17.75	0.00	17.75	
PERIOD		0.44756	ug/m^3	S_203	980309.92	3742004.77	17.56	0.00	17.56	
PERIOD		0.53454	ug/m^3	S_204	980309.92	3742024.77	17.38	0.00	17.38	
PERIOD		0.65015	ug/m^3	S_205	980309.92	3742044.77	17.53	0.00	17.53	
PERIOD		0.80897	ug/m^3	S_206	980309.92	3742064.77	17.73	0.00	17.73	
PERIOD		1.03553	ug/m^3	S_207	980309.92	3742084.77	17.96	0.00	17.96	
PERIOD		1.37185	ug/m^3	S_208	980309.92	3742104.77	18.13	0.00	18.13	
PERIOD		1.89196	ug/m^3	S_209	980309.92	3742124.77	18.25	0.00	18.25	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.73614	ug/m^3	S_210	980309.92	3742144.77	18.25	0.00	18.25	
PERIOD		0.07828	ug/m^3	S_211	980329.92	3741684.77	16.06	0.00	16.06	
PERIOD		0.08395	ug/m^3	S_212	980329.92	3741704.77	16.00	0.00	16.00	
PERIOD		0.09031	ug/m^3	S_213	980329.92	3741724.77	16.05	0.00	16.05	
PERIOD		0.09745	ug/m^3	S_214	980329.92	3741744.77	16.15	0.00	16.15	
PERIOD		0.10551	ug/m^3	S_215	980329.92	3741764.77	16.32	0.00	16.32	
PERIOD		0.11464	ug/m^3	S_216	980329.92	3741784.77	16.51	0.00	16.51	
PERIOD		0.12503	ug/m^3	S_217	980329.92	3741804.77	16.74	0.00	16.74	
PERIOD		0.13692	ug/m^3	S_218	980329.92	3741824.77	17.00	0.00	17.00	
PERIOD		0.15059	ug/m^3	S_219	980329.92	3741844.77	17.28	0.00	17.28	
PERIOD		0.16640	ug/m^3	S_220	980329.92	3741864.77	17.57	0.00	17.57	
PERIOD		0.18481	ug/m^3	S_221	980329.92	3741884.77	17.75	0.00	17.75	
PERIOD		0.20641	ug/m^3	S_222	980329.92	3741904.77	17.84	0.00	17.84	
PERIOD		0.23197	ug/m^3	S_223	980329.92	3741924.77	17.88	0.00	17.88	
PERIOD		0.26248	ug/m^3	S_224	980329.92	3741944.77	18.03	0.00	18.03	
PERIOD		0.29929	ug/m^3	S_225	980329.92	3741964.77	18.30	0.00	18.30	
PERIOD		0.34456	ug/m^3	S_226	980329.92	3741984.77	17.94	0.00	17.94	
PERIOD		0.40087	ug/m^3	S_227	980329.92	3742004.77	17.62	0.00	17.62	
PERIOD		0.47231	ug/m^3	S_228	980329.92	3742024.77	17.39	0.00	17.39	
PERIOD		0.56496	ug/m^3	S_229	980329.92	3742044.77	17.47	0.00	17.47	

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.68858	ug/m^3	S_230	980329.92	3742064.77	17.64	0.00	17.64	
PERIOD		0.85855	ug/m^3	S_231	980329.92	3742084.77	17.88	0.00	17.88	
PERIOD		1.09949	ug/m^3	S_232	980329.92	3742104.77	18.07	0.00	18.07	
PERIOD		1.45008	ug/m^3	S_233	980329.92	3742124.77	18.21	0.00	18.21	
PERIOD		1.96968	ug/m^3	S_234	980329.92	3742144.77	18.22	0.00	18.22	
PERIOD		2.74017	ug/m^3	S_235	980329.92	3742164.77	18.20	0.00	18.20	
PERIOD		0.09409	ug/m^3	S_236	980349.92	3741744.77	16.24	0.00	16.24	
PERIOD		0.10159	ug/m^3	S_237	980349.92	3741764.77	16.37	0.00	16.37	
PERIOD		0.11004	ug/m^3	S_238	980349.92	3741784.77	16.56	0.00	16.56	
PERIOD		0.11961	ug/m^3	S_239	980349.92	3741804.77	16.80	0.00	16.80	
PERIOD		0.13048	ug/m^3	S_240	980349.92	3741824.77	17.05	0.00	17.05	
PERIOD		0.14290	ug/m^3	S_241	980349.92	3741844.77	17.32	0.00	17.32	
PERIOD		0.15716	ug/m^3	S_242	980349.92	3741864.77	17.60	0.00	17.60	
PERIOD		0.17364	ug/m^3	S_243	980349.92	3741884.77	17.79	0.00	17.79	
PERIOD		0.19281	ug/m^3	S_244	980349.92	3741904.77	17.90	0.00	17.90	
PERIOD		0.21529	ug/m^3	S_245	980349.92	3741924.77	17.84	0.00	17.84	
PERIOD		0.24187	ug/m^3	S_246	980349.92	3741944.77	17.81	0.00	17.81	
PERIOD		0.27359	ug/m^3	S_247	980349.92	3741964.77	17.84	0.00	17.84	
PERIOD		0.31194	ug/m^3	S_248	980349.92	3741984.77	17.73	0.00	17.73	
PERIOD		0.35898	ug/m^3	S_249	980349.92	3742004.77	17.58	0.00	17.58	

Sensitive Receptor Summary

Tustin District Office Project
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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.41762	ug/m^3	S_250	980349.92	3742024.77	17.33	0.00	17.33	
PERIOD		0.49208	ug/m^3	S_251	980349.92	3742044.77	17.37	0.00	17.37	
PERIOD		0.58886	ug/m^3	S_252	980349.92	3742064.77	17.53	0.00	17.53	
PERIOD		0.71779	ug/m^3	S_253	980349.92	3742084.77	17.81	0.00	17.81	
PERIOD		0.89385	ug/m^3	S_254	980349.92	3742104.77	17.98	0.00	17.98	
PERIOD		1.13881	ug/m^3	S_255	980349.92	3742124.77	18.10	0.00	18.10	
PERIOD		1.48227	ug/m^3	S_256	980349.92	3742144.77	18.16	0.00	18.16	
PERIOD		1.95648	ug/m^3	S_257	980349.92	3742164.77	18.18	0.00	18.18	
PERIOD		0.12412	ug/m^3	S_258	980369.92	3741824.77	17.01	0.00	17.01	
PERIOD		0.13537	ug/m^3	S_259	980369.92	3741844.77	17.24	0.00	17.24	
PERIOD		0.14818	ug/m^3	S_260	980369.92	3741864.77	17.49	0.00	17.49	
PERIOD		0.16289	ug/m^3	S_261	980369.92	3741884.77	17.68	0.00	17.68	
PERIOD		0.17985	ug/m^3	S_262	980369.92	3741904.77	17.82	0.00	17.82	
PERIOD		0.19958	ug/m^3	S_263	980369.92	3741924.77	17.71	0.00	17.71	
PERIOD		0.22266	ug/m^3	S_264	980369.92	3741944.77	17.60	0.00	17.60	
PERIOD		0.24992	ug/m^3	S_265	980369.92	3741964.77	17.52	0.00	17.52	
PERIOD		0.28243	ug/m^3	S_266	980369.92	3741984.77	17.46	0.00	17.46	
PERIOD		0.32172	ug/m^3	S_267	980369.92	3742004.77	17.39	0.00	17.39	
PERIOD		0.36990	ug/m^3	S_268	980369.92	3742024.77	17.26	0.00	17.26	
PERIOD		0.42994	ug/m^3	S_269	980369.92	3742044.77	17.32	0.00	17.32	

Sensitive Receptor Summary

Tustin District Office Project
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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.50632	ug/m^3	S_270	980369.92	3742064.77	17.47	0.00	17.47	
PERIOD		0.60544	ug/m^3	S_271	980369.92	3742084.77	17.75	0.00	17.75	
PERIOD		0.73685	ug/m^3	S_272	980369.92	3742104.77	17.92	0.00	17.92	
PERIOD		0.91331	ug/m^3	S_273	980369.92	3742124.77	18.02	0.00	18.02	
PERIOD		1.15095	ug/m^3	S_274	980369.92	3742144.77	18.07	0.00	18.07	
PERIOD		0.15265	ug/m^3	S_275	980389.92	3741884.77	17.46	0.00	17.46	
PERIOD		0.16763	ug/m^3	S_276	980389.92	3741904.77	17.62	0.00	17.62	
PERIOD		0.18490	ug/m^3	S_277	980389.92	3741924.77	17.52	0.00	17.52	
PERIOD		0.20492	ug/m^3	S_278	980389.92	3741944.77	17.34	0.00	17.34	
PERIOD		0.22833	ug/m^3	S_279	980389.92	3741964.77	17.07	0.00	17.07	
PERIOD		0.25590	ug/m^3	S_280	980389.92	3741984.77	17.06	0.00	17.06	
PERIOD		0.28876	ug/m^3	S_281	980389.92	3742004.77	17.13	0.00	17.13	
PERIOD		0.32849	ug/m^3	S_282	980389.92	3742024.77	17.14	0.00	17.14	
PERIOD		0.37719	ug/m^3	S_283	980389.92	3742044.77	17.26	0.00	17.26	
PERIOD		0.43801	ug/m^3	S_284	980389.92	3742064.77	17.43	0.00	17.43	
PERIOD		0.51529	ug/m^3	S_285	980389.92	3742084.77	17.71	0.00	17.71	
PERIOD		0.61511	ug/m^3	S_286	980389.92	3742104.77	17.88	0.00	17.88	
PERIOD		0.74553	ug/m^3	S_287	980389.92	3742124.77	17.96	0.00	17.96	
PERIOD		0.18864	ug/m^3	S_288	980409.92	3741944.77	17.05	0.00	17.05	
PERIOD		0.20876	ug/m^3	S_289	980409.92	3741964.77	16.48	0.00	16.48	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.23217	ug/m^3	S_290	980409.92	3741984.77	16.56	0.00	16.56	
PERIOD		0.25974	ug/m^3	S_291	980409.92	3742004.77	16.85	0.00	16.85	
PERIOD		0.29265	ug/m^3	S_292	980409.92	3742024.77	16.99	0.00	16.99	
PERIOD		0.33245	ug/m^3	S_293	980409.92	3742044.77	17.19	0.00	17.19	
PERIOD		0.38131	ug/m^3	S_294	980409.92	3742064.77	17.43	0.00	17.43	
PERIOD		0.44229	ug/m^3	S_295	980409.92	3742084.77	17.69	0.00	17.69	
PERIOD		0.51951	ug/m^3	S_296	980409.92	3742104.77	17.82	0.00	17.82	
PERIOD		0.61826	ug/m^3	S_297	980409.92	3742124.77	17.86	0.00	17.86	
PERIOD		0.19107	ug/m^3	S_298	980429.92	3741964.77	16.39	0.00	16.39	
PERIOD		0.21101	ug/m^3	S_299	980429.92	3741984.77	16.38	0.00	16.38	
PERIOD		0.23426	ug/m^3	S_300	980429.92	3742004.77	16.60	0.00	16.60	
PERIOD		0.26167	ug/m^3	S_301	980429.92	3742024.77	16.84	0.00	16.84	
PERIOD		0.29439	ug/m^3	S_302	980429.92	3742044.77	17.14	0.00	17.14	
PERIOD		0.33403	ug/m^3	S_303	980429.92	3742064.77	17.46	0.00	17.46	
PERIOD		0.38281	ug/m^3	S_304	980429.92	3742084.77	17.66	0.00	17.66	
PERIOD		0.44353	ug/m^3	S_305	980429.92	3742104.77	17.75	0.00	17.75	
PERIOD		0.21187	ug/m^3	S_306	980449.92	3742004.77	16.68	0.00	16.68	
PERIOD		0.23483	ug/m^3	S_307	980449.92	3742024.77	16.90	0.00	16.90	
PERIOD		0.26197	ug/m^3	S_308	980449.92	3742044.77	17.15	0.00	17.15	
PERIOD		0.29447	ug/m^3	S_309	980449.92	3742064.77	17.44	0.00	17.44	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.33397	ug/m^3	S_310	980449.92	3742084.77	17.53	0.00	17.53	
PERIOD		0.21158	ug/m^3	S_311	980469.92	3742024.77	16.97	0.00	16.97	
PERIOD		0.23426	ug/m^3	S_312	980469.92	3742044.77	17.17	0.00	17.17	
PERIOD		0.26117	ug/m^3	S_313	980469.92	3742064.77	17.36	0.00	17.36	
PERIOD		0.29354	ug/m^3	S_314	980469.92	3742084.77	17.43	0.00	17.43	
PERIOD		0.21049	ug/m^3	S_315	980489.92	3742044.77	17.16	0.00	17.16	
PERIOD		0.23299	ug/m^3	S_316	980489.92	3742064.77	17.28	0.00	17.28	
PERIOD		1.42957	ug/m^3	W_001	980404.60	3742206.17	18.79	0.00	18.79	
PERIOD		2.02823	ug/m^3	W_002	980395.70	3742240.27	18.75	0.00	18.75	
PERIOD		0.38015	ug/m^3	W_003	980504.67	3742161.69	18.52	0.00	18.52	
PERIOD		1.37209	ug/m^3	W_004	980443.89	3742297.35	19.09	0.00	19.09	
PERIOD		1.05285	ug/m^3	W_005	980480.95	3742379.63	18.99	0.00	18.99	
PERIOD		0.51759	ug/m^3	W_006	980519.50	3742227.67	18.81	0.00	18.81	
PERIOD		0.48337	ug/m^3	W_007	980546.18	3742255.09	19.11	0.00	19.11	
PERIOD		0.52551	ug/m^3	W_008	980555.82	3742291.42	19.22	0.00	19.22	
PERIOD		0.47611	ug/m^3	W_009	980578.06	3742308.47	19.33	0.00	19.33	
PERIOD		0.45537	ug/m^3	W_010	980601.04	3742345.53	19.42	0.00	19.42	
PERIOD		0.89288	ug/m^3	W_011	980500.96	3742427.81	19.03	0.00	19.03	
PERIOD		0.78695	ug/m^3	W_012	980518.78	3742452.39	19.29	0.00	19.29	
PERIOD		0.42098	ug/m^3	W_013	980625.18	3742376.52	19.47	0.00	19.47	

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.41148	ug/m^3	W_014	980640.01	3742414.89	19.45	0.00	19.45	
PERIOD		0.60621	ug/m^3	W_015	980561.52	3742496.87	19.93	0.00	19.93	
PERIOD		0.37955	ug/m^3	W_016	980665.30	3742472.45	19.69	0.00	19.69	
PERIOD		0.65678	ug/m^3	W_017	980513.48	3742577.06	19.19	0.00	19.19	
PERIOD		0.32684	ug/m^3	W_018	979899.40	3742334.47	19.24	0.00	19.24	
PERIOD		0.85865	ug/m^3	W_019	979936.77	3742099.68	17.99	0.00	17.99	
PERIOD		0.16502	ug/m^3	W_020	979761.24	3742285.82	19.04	0.00	19.04	
PERIOD		0.16374	ug/m^3	W_021	979733.51	3742181.86	18.30	0.00	18.30	
PERIOD		0.77286	ug/m^3	W_022	979924.14	3742077.70	17.92	0.00	17.92	
PERIOD		0.21970	ug/m^3	W_023	979822.04	3741883.42	17.43	0.00	17.43	
PERIOD		0.13970	ug/m^3	W_024	979674.08	3742101.64	18.09	0.00	18.09	
PERIOD		0.21806	ug/m^3	W_025	979851.61	3742394.38	19.48	0.00	19.48	
PERIOD		0.26727	ug/m^3	W_026	979873.78	3742356.02	19.42	0.00	19.42	
PERIOD		0.08402	ug/m^3	W_027	979586.82	3742234.43	19.12	0.00	19.12	
PERIOD		0.09501	ug/m^3	W_028	979600.20	3742183.36	18.86	0.00	18.86	
PERIOD		0.07958	ug/m^3	W_029	979550.35	3742193.09	18.98	0.00	18.98	
PERIOD		0.11022	ug/m^3	W_030	979618.44	3742121.35	18.69	0.00	18.69	
PERIOD		0.32207	ug/m^3	W_031	979858.81	3741944.73	17.56	0.00	17.56	
PERIOD		0.16290	ug/m^3	W_032	979760.89	3741849.21	17.63	0.00	17.63	
1-HR	1ST	54.39653	ug/m^3	RES_001	979660.30	3742498.81	19.96	0.00	19.96	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	58.59176	ug/m^3	RES_002	979660.30	3742518.81	20.04	0.00	20.04	1/17/2023, 8
1-HR	1ST	62.28373	ug/m^3	RES_003	979660.30	3742538.81	20.10	0.00	20.10	1/17/2023, 8
1-HR	1ST	65.42759	ug/m^3	RES_004	979660.30	3742558.81	20.16	0.00	20.16	1/17/2023, 8
1-HR	1ST	67.92584	ug/m^3	RES_005	979660.30	3742578.81	20.25	0.00	20.25	1/17/2023, 8
1-HR	1ST	69.73515	ug/m^3	RES_006	979660.30	3742598.81	20.26	0.00	20.26	1/17/2023, 8
1-HR	1ST	70.79520	ug/m^3	RES_007	979660.30	3742618.81	20.30	0.00	20.30	1/17/2023, 8
1-HR	1ST	71.06343	ug/m^3	RES_008	979660.30	3742638.81	20.42	0.00	20.42	1/17/2023, 8
1-HR	1ST	70.53211	ug/m^3	RES_009	979660.30	3742658.81	20.49	0.00	20.49	1/17/2023, 8
1-HR	1ST	69.22710	ug/m^3	RES_010	979660.30	3742678.81	20.53	0.00	20.53	1/17/2023, 8
1-HR	1ST	67.14224	ug/m^3	RES_011	979660.30	3742698.81	20.51	0.00	20.51	1/17/2023, 8
1-HR	1ST	64.40451	ug/m^3	RES_012	979660.30	3742718.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	61.05098	ug/m^3	RES_013	979660.30	3742738.81	21.08	0.00	21.08	1/17/2023, 8
1-HR	1ST	57.26443	ug/m^3	RES_014	979660.30	3742758.81	21.12	0.00	21.12	1/17/2023, 8
1-HR	1ST	53.11747	ug/m^3	RES_015	979660.30	3742778.81	21.10	0.00	21.10	1/17/2023, 8
1-HR	1ST	60.59957	ug/m^3	RES_016	979680.30	3742498.81	20.06	0.00	20.06	1/17/2023, 8
1-HR	1ST	64.50955	ug/m^3	RES_017	979680.30	3742518.81	20.14	0.00	20.14	1/17/2023, 8
1-HR	1ST	67.83693	ug/m^3	RES_018	979680.30	3742538.81	20.21	0.00	20.21	1/17/2023, 8
1-HR	1ST	70.51699	ug/m^3	RES_019	979680.30	3742558.81	20.28	0.00	20.28	1/17/2023, 8
1-HR	1ST	72.47848	ug/m^3	RES_020	979680.30	3742578.81	20.34	0.00	20.34	1/17/2023, 8
1-HR	1ST	73.64943	ug/m^3	RES_021	979680.30	3742598.81	20.33	0.00	20.33	1/17/2023, 8

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	74.00140	ug/m^3	RES_022	979680.30	3742618.81	20.35	0.00	20.35	1/17/2023, 8
1-HR	1ST	73.49848	ug/m^3	RES_023	979680.30	3742638.81	20.51	0.00	20.51	1/17/2023, 8
1-HR	1ST	72.13357	ug/m^3	RES_024	979680.30	3742658.81	20.64	0.00	20.64	1/17/2023, 8
1-HR	1ST	69.99460	ug/m^3	RES_025	979680.30	3742678.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	67.13533	ug/m^3	RES_026	979680.30	3742698.81	20.68	0.00	20.68	1/17/2023, 8
1-HR	1ST	63.60522	ug/m^3	RES_027	979680.30	3742718.81	20.93	0.00	20.93	1/17/2023, 8
1-HR	1ST	59.56400	ug/m^3	RES_028	979680.30	3742738.81	21.36	0.00	21.36	1/17/2023, 8
1-HR	1ST	55.17182	ug/m^3	RES_029	979680.30	3742758.81	21.30	0.00	21.30	1/17/2023, 8
1-HR	1ST	50.54087	ug/m^3	RES_030	979680.30	3742778.81	21.17	0.00	21.17	1/17/2023, 8
1-HR	1ST	51.95811	ug/m^3	RES_031	979680.30	3742798.81	20.96	0.00	20.96	12/13/2023, 8
1-HR	1ST	66.89687	ug/m^3	RES_032	979700.30	3742498.81	20.19	0.00	20.19	1/17/2023, 8
1-HR	1ST	70.41955	ug/m^3	RES_033	979700.30	3742518.81	20.27	0.00	20.27	1/17/2023, 8
1-HR	1ST	73.26611	ug/m^3	RES_034	979700.30	3742538.81	20.36	0.00	20.36	1/17/2023, 8
1-HR	1ST	75.37549	ug/m^3	RES_035	979700.30	3742558.81	20.44	0.00	20.44	1/17/2023, 8
1-HR	1ST	76.67643	ug/m^3	RES_036	979700.30	3742578.81	20.47	0.00	20.47	1/17/2023, 8
1-HR	1ST	77.12150	ug/m^3	RES_037	979700.30	3742598.81	20.47	0.00	20.47	1/17/2023, 8
1-HR	1ST	76.65283	ug/m^3	RES_038	979700.30	3742618.81	20.50	0.00	20.50	1/17/2023, 8
1-HR	1ST	75.29449	ug/m^3	RES_039	979700.30	3742638.81	20.68	0.00	20.68	1/17/2023, 8
1-HR	1ST	73.07386	ug/m^3	RES_040	979700.30	3742658.81	20.81	0.00	20.81	1/17/2023, 8
1-HR	1ST	70.03665	ug/m^3	RES_041	979700.30	3742678.81	20.90	0.00	20.90	1/17/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	66.35447	ug/m^3	RES_042	979700.30	3742698.81	20.85	0.00	20.85	1/17/2023, 8
1-HR	1ST	62.08392	ug/m^3	RES_043	979700.30	3742718.81	21.07	0.00	21.07	1/17/2023, 8
1-HR	1ST	57.38389	ug/m^3	RES_044	979700.30	3742738.81	21.49	0.00	21.49	1/17/2023, 8
1-HR	1ST	53.47752	ug/m^3	RES_045	979700.30	3742758.81	21.39	0.00	21.39	12/13/2023, 8
1-HR	1ST	55.30869	ug/m^3	RES_046	979700.30	3742778.81	21.24	0.00	21.24	12/13/2023, 8
1-HR	1ST	56.85248	ug/m^3	RES_047	979700.30	3742798.81	21.05	0.00	21.05	12/13/2023, 8
1-HR	1ST	73.19367	ug/m^3	RES_048	979720.30	3742498.81	20.32	0.00	20.32	1/17/2023, 8
1-HR	1ST	76.22046	ug/m^3	RES_049	979720.30	3742518.81	20.42	0.00	20.42	1/17/2023, 8
1-HR	1ST	78.47081	ug/m^3	RES_050	979720.30	3742538.81	20.51	0.00	20.51	1/17/2023, 8
1-HR	1ST	79.90450	ug/m^3	RES_051	979720.30	3742558.81	20.58	0.00	20.58	1/17/2023, 8
1-HR	1ST	80.43368	ug/m^3	RES_052	979720.30	3742578.81	20.59	0.00	20.59	1/17/2023, 8
1-HR	1ST	80.03788	ug/m^3	RES_053	979720.30	3742598.81	20.61	0.00	20.61	1/17/2023, 8
1-HR	1ST	78.67214	ug/m^3	RES_054	979720.30	3742618.81	20.65	0.00	20.65	1/17/2023, 8
1-HR	1ST	76.35377	ug/m^3	RES_055	979720.30	3742638.81	20.85	0.00	20.85	1/17/2023, 8
1-HR	1ST	73.19980	ug/m^3	RES_056	979720.30	3742658.81	20.98	0.00	20.98	1/17/2023, 8
1-HR	1ST	69.29809	ug/m^3	RES_057	979720.30	3742678.81	21.05	0.00	21.05	1/17/2023, 8
1-HR	1ST	64.77556	ug/m^3	RES_058	979720.30	3742698.81	21.03	0.00	21.03	1/17/2023, 8
1-HR	1ST	59.79754	ug/m^3	RES_059	979720.30	3742718.81	21.21	0.00	21.21	1/17/2023, 8
1-HR	1ST	57.09676	ug/m^3	RES_060	979720.30	3742738.81	21.59	0.00	21.59	12/13/2023, 8
1-HR	1ST	58.86566	ug/m^3	RES_061	979720.30	3742758.81	21.48	0.00	21.48	12/13/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	60.33721	ug/m^3	RES_062	979720.30	3742778.81	21.36	0.00	21.36	12/13/2023, 8
1-HR	1ST	76.19330	ug/m^3	RES_063	979740.30	3742478.81	20.28	0.00	20.28	1/17/2023, 8
1-HR	1ST	79.39440	ug/m^3	RES_064	979740.30	3742498.81	20.42	0.00	20.42	1/17/2023, 8
1-HR	1ST	81.80844	ug/m^3	RES_065	979740.30	3742518.81	20.52	0.00	20.52	1/17/2023, 8
1-HR	1ST	83.37685	ug/m^3	RES_066	979740.30	3742538.81	20.61	0.00	20.61	1/17/2023, 8
1-HR	1ST	84.01769	ug/m^3	RES_067	979740.30	3742558.81	20.68	0.00	20.68	1/17/2023, 8
1-HR	1ST	83.66929	ug/m^3	RES_068	979740.30	3742578.81	20.70	0.00	20.70	1/17/2023, 8
1-HR	1ST	82.30043	ug/m^3	RES_069	979740.30	3742598.81	20.74	0.00	20.74	1/17/2023, 8
1-HR	1ST	79.94754	ug/m^3	RES_070	979740.30	3742618.81	20.80	0.00	20.80	1/17/2023, 8
1-HR	1ST	76.61947	ug/m^3	RES_071	979740.30	3742638.81	21.00	0.00	21.00	1/17/2023, 8
1-HR	1ST	72.47181	ug/m^3	RES_072	979740.30	3742658.81	21.11	0.00	21.11	1/17/2023, 8
1-HR	1ST	67.68530	ug/m^3	RES_073	979740.30	3742678.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	62.38209	ug/m^3	RES_074	979740.30	3742698.81	21.19	0.00	21.19	1/17/2023, 8
1-HR	1ST	60.97982	ug/m^3	RES_075	979740.30	3742718.81	21.35	0.00	21.35	12/13/2023, 8
1-HR	1ST	62.65284	ug/m^3	RES_076	979740.30	3742738.81	21.67	0.00	21.67	12/13/2023, 8
1-HR	1ST	64.01334	ug/m^3	RES_077	979740.30	3742758.81	21.55	0.00	21.55	12/13/2023, 8
1-HR	1ST	65.02480	ug/m^3	RES_078	979740.30	3742778.81	21.39	0.00	21.39	12/13/2023, 8
1-HR	1ST	82.82350	ug/m^3	RES_079	979760.30	3742478.81	20.37	0.00	20.37	1/17/2023, 8
1-HR	1ST	85.39821	ug/m^3	RES_080	979760.30	3742498.81	20.44	0.00	20.44	1/17/2023, 8
1-HR	1ST	87.10281	ug/m^3	RES_081	979760.30	3742518.81	20.54	0.00	20.54	1/17/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	87.84606	ug/m^3	RES_082	979760.30	3742538.81	20.64	0.00	20.64	1/17/2023, 8
1-HR	1ST	87.56115	ug/m^3	RES_083	979760.30	3742558.81	20.74	0.00	20.74	1/17/2023, 8
1-HR	1ST	86.21189	ug/m^3	RES_084	979760.30	3742578.81	20.80	0.00	20.80	1/17/2023, 8
1-HR	1ST	83.76973	ug/m^3	RES_085	979760.30	3742598.81	20.87	0.00	20.87	1/17/2023, 8
1-HR	1ST	80.30526	ug/m^3	RES_086	979760.30	3742618.81	20.96	0.00	20.96	1/17/2023, 8
1-HR	1ST	75.93720	ug/m^3	RES_087	979760.30	3742638.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	70.83939	ug/m^3	RES_088	979760.30	3742658.81	21.25	0.00	21.25	1/17/2023, 8
1-HR	1ST	65.18270	ug/m^3	RES_089	979760.30	3742678.81	21.25	0.00	21.25	1/17/2023, 8
1-HR	1ST	65.12915	ug/m^3	RES_090	979760.30	3742698.81	21.33	0.00	21.33	12/13/2023, 8
1-HR	1ST	66.69069	ug/m^3	RES_091	979760.30	3742718.81	21.49	0.00	21.49	12/13/2023, 8
1-HR	1ST	67.91340	ug/m^3	RES_092	979760.30	3742738.81	21.72	0.00	21.72	12/13/2023, 8
1-HR	1ST	68.76292	ug/m^3	RES_093	979760.30	3742758.81	21.61	0.00	21.61	12/13/2023, 8
1-HR	1ST	69.23195	ug/m^3	RES_094	979760.30	3742778.81	21.46	0.00	21.46	12/13/2023, 8
1-HR	1ST	89.24946	ug/m^3	RES_095	979780.30	3742478.81	20.44	0.00	20.44	1/17/2023, 8
1-HR	1ST	91.10768	ug/m^3	RES_096	979780.30	3742498.81	20.50	0.00	20.50	1/17/2023, 8
1-HR	1ST	91.97755	ug/m^3	RES_097	979780.30	3742518.81	20.56	0.00	20.56	1/17/2023, 8
1-HR	1ST	91.77548	ug/m^3	RES_098	979780.30	3742538.81	20.66	0.00	20.66	1/17/2023, 8
1-HR	1ST	90.44069	ug/m^3	RES_099	979780.30	3742558.81	20.77	0.00	20.77	1/17/2023, 8
1-HR	1ST	87.95375	ug/m^3	RES_100	979780.30	3742578.81	20.84	0.00	20.84	1/17/2023, 8
1-HR	1ST	84.34887	ug/m^3	RES_101	979780.30	3742598.81	20.96	0.00	20.96	1/17/2023, 8

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Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	79.73266	ug/m^3	RES_102	979780.30	3742618.81	21.13	0.00	21.13	1/17/2023, 8
1-HR	1ST	74.27673	ug/m^3	RES_103	979780.30	3742638.81	21.32	0.00	21.32	1/17/2023, 8
1-HR	1ST	68.21091	ug/m^3	RES_104	979780.30	3742658.81	21.40	0.00	21.40	1/17/2023, 8
1-HR	1ST	69.53246	ug/m^3	RES_105	979780.30	3742678.81	21.35	0.00	21.35	12/13/2023, 8
1-HR	1ST	70.98795	ug/m^3	RES_106	979780.30	3742698.81	21.44	0.00	21.44	12/13/2023, 8
1-HR	1ST	72.05132	ug/m^3	RES_107	979780.30	3742718.81	21.57	0.00	21.57	12/13/2023, 8
1-HR	1ST	72.70095	ug/m^3	RES_108	979780.30	3742738.81	21.71	0.00	21.71	12/13/2023, 8
1-HR	1ST	72.95442	ug/m^3	RES_109	979780.30	3742758.81	21.60	0.00	21.60	12/13/2023, 8
1-HR	1ST	72.75433	ug/m^3	RES_110	979780.30	3742778.81	21.48	0.00	21.48	12/13/2023, 8
1-HR	1ST	95.41847	ug/m^3	RES_111	979800.30	3742478.81	20.53	0.00	20.53	1/17/2023, 8
1-HR	1ST	96.41426	ug/m^3	RES_112	979800.30	3742498.81	20.59	0.00	20.59	1/17/2023, 8
1-HR	1ST	96.33182	ug/m^3	RES_113	979800.30	3742518.81	20.62	0.00	20.62	1/17/2023, 8
1-HR	1ST	95.03407	ug/m^3	RES_114	979800.30	3742538.81	20.73	0.00	20.73	1/17/2023, 8
1-HR	1ST	92.47210	ug/m^3	RES_115	979800.30	3742558.81	20.91	0.00	20.91	1/17/2023, 8
1-HR	1ST	88.71345	ug/m^3	RES_116	979800.30	3742578.81	21.00	0.00	21.00	1/17/2023, 8
1-HR	1ST	83.83707	ug/m^3	RES_117	979800.30	3742598.81	21.10	0.00	21.10	1/17/2023, 8
1-HR	1ST	78.03906	ug/m^3	RES_118	979800.30	3742618.81	21.22	0.00	21.22	1/17/2023, 8
1-HR	1ST	72.55210	ug/m^3	RES_119	979800.30	3742638.81	21.42	0.00	21.42	12/13/2023, 8
1-HR	1ST	74.21745	ug/m^3	RES_120	979800.30	3742658.81	21.51	0.00	21.51	12/13/2023, 8
1-HR	1ST	75.53302	ug/m^3	RES_121	979800.30	3742678.81	21.41	0.00	21.41	12/13/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	76.42625	ug/m^3	RES_122	979800.30	3742698.81	21.47	0.00	21.47	12/13/2023, 8
1-HR	1ST	76.89045	ug/m^3	RES_123	979800.30	3742718.81	21.56	0.00	21.56	12/13/2023, 8
1-HR	1ST	76.85297	ug/m^3	RES_124	979800.30	3742738.81	21.62	0.00	21.62	12/13/2023, 8
1-HR	1ST	76.41619	ug/m^3	RES_125	979800.30	3742758.81	21.50	0.00	21.50	12/13/2023, 8
1-HR	1ST	75.44907	ug/m^3	RES_126	979800.30	3742778.81	21.39	0.00	21.39	12/13/2023, 8
1-HR	1ST	101.18683	ug/m^3	RES_127	979820.30	3742478.81	20.72	0.00	20.72	1/17/2023, 8
1-HR	1ST	101.19857	ug/m^3	RES_128	979820.30	3742498.81	20.79	0.00	20.79	1/17/2023, 8
1-HR	1ST	99.95908	ug/m^3	RES_129	979820.30	3742518.81	20.81	0.00	20.81	1/17/2023, 8
1-HR	1ST	97.40932	ug/m^3	RES_130	979820.30	3742538.81	20.90	0.00	20.90	1/17/2023, 8
1-HR	1ST	93.49797	ug/m^3	RES_131	979820.30	3742558.81	21.04	0.00	21.04	1/17/2023, 8
1-HR	1ST	88.36920	ug/m^3	RES_132	979820.30	3742578.81	21.08	0.00	21.08	1/17/2023, 8
1-HR	1ST	82.19142	ug/m^3	RES_133	979820.30	3742598.81	21.14	0.00	21.14	1/17/2023, 8
1-HR	1ST	77.71226	ug/m^3	RES_134	979820.30	3742618.81	21.24	0.00	21.24	12/13/2023, 8
1-HR	1ST	79.22433	ug/m^3	RES_135	979820.30	3742638.81	21.47	0.00	21.47	12/13/2023, 8
1-HR	1ST	80.35011	ug/m^3	RES_136	979820.30	3742658.81	21.57	0.00	21.57	12/13/2023, 8
1-HR	1ST	81.06133	ug/m^3	RES_137	979820.30	3742678.81	21.38	0.00	21.38	12/13/2023, 8
1-HR	1ST	81.28805	ug/m^3	RES_138	979820.30	3742698.81	21.37	0.00	21.37	12/13/2023, 8
1-HR	1ST	81.00030	ug/m^3	RES_139	979820.30	3742718.81	21.41	0.00	21.41	12/13/2023, 8
1-HR	1ST	80.19046	ug/m^3	RES_140	979820.30	3742738.81	21.44	0.00	21.44	12/13/2023, 8
1-HR	1ST	78.91010	ug/m^3	RES_141	979820.30	3742758.81	21.28	0.00	21.28	12/13/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	77.13475	ug/m^3	RES_142	979820.30	3742778.81	21.08	0.00	21.08	12/13/2023, 8
1-HR	1ST	106.46098	ug/m^3	RES_143	979840.30	3742478.81	20.99	0.00	20.99	1/17/2023, 8
1-HR	1ST	105.28494	ug/m^3	RES_144	979840.30	3742498.81	21.12	0.00	21.12	1/17/2023, 8
1-HR	1ST	102.74006	ug/m^3	RES_145	979840.30	3742518.81	21.15	0.00	21.15	1/17/2023, 8
1-HR	1ST	98.73194	ug/m^3	RES_146	979840.30	3742538.81	21.18	0.00	21.18	1/17/2023, 8
1-HR	1ST	93.33826	ug/m^3	RES_147	979840.30	3742558.81	21.19	0.00	21.19	1/17/2023, 8
1-HR	1ST	86.77810	ug/m^3	RES_148	979840.30	3742578.81	21.11	0.00	21.11	1/17/2023, 8
1-HR	1ST	83.25671	ug/m^3	RES_149	979840.30	3742598.81	21.08	0.00	21.08	12/13/2023, 8
1-HR	1ST	84.59718	ug/m^3	RES_150	979840.30	3742618.81	21.14	0.00	21.14	12/13/2023, 8
1-HR	1ST	85.52607	ug/m^3	RES_151	979840.30	3742638.81	21.27	0.00	21.27	12/13/2023, 8
1-HR	1ST	85.99929	ug/m^3	RES_152	979840.30	3742658.81	21.32	0.00	21.32	12/13/2023, 8
1-HR	1ST	85.94091	ug/m^3	RES_153	979840.30	3742678.81	21.15	0.00	21.15	12/13/2023, 8
1-HR	1ST	85.36477	ug/m^3	RES_154	979840.30	3742698.81	21.15	0.00	21.15	12/13/2023, 8
1-HR	1ST	84.18702	ug/m^3	RES_155	979840.30	3742718.81	21.20	0.00	21.20	12/13/2023, 8
1-HR	1ST	82.47945	ug/m^3	RES_156	979840.30	3742738.81	21.19	0.00	21.19	12/13/2023, 8
1-HR	1ST	80.25670	ug/m^3	RES_157	979840.30	3742758.81	21.07	0.00	21.07	12/13/2023, 8
1-HR	1ST	79.28136	ug/m^3	RES_158	979840.30	3742778.81	20.91	0.00	20.91	1/28/2020, 8
1-HR	1ST	111.17130	ug/m^3	RES_159	979860.30	3742478.81	21.09	0.00	21.09	1/17/2023, 8
1-HR	1ST	108.58050	ug/m^3	RES_160	979860.30	3742498.81	21.28	0.00	21.28	1/17/2023, 8
1-HR	1ST	104.44258	ug/m^3	RES_161	979860.30	3742518.81	21.44	0.00	21.44	1/17/2023, 8

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Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	98.75122	ug/m^3	RES_162	979860.30	3742538.81	21.51	0.00	21.51	1/17/2023, 8
1-HR	1ST	91.74774	ug/m^3	RES_163	979860.30	3742558.81	21.42	0.00	21.42	1/17/2023, 8
1-HR	1ST	89.12830	ug/m^3	RES_164	979860.30	3742578.81	21.18	0.00	21.18	12/13/2023, 8
1-HR	1ST	90.31899	ug/m^3	RES_165	979860.30	3742598.81	20.98	0.00	20.98	12/13/2023, 8
1-HR	1ST	91.05177	ug/m^3	RES_166	979860.30	3742618.81	20.95	0.00	20.95	12/13/2023, 8
1-HR	1ST	91.27009	ug/m^3	RES_167	979860.30	3742638.81	20.95	0.00	20.95	12/13/2023, 8
1-HR	1ST	90.92770	ug/m^3	RES_168	979860.30	3742658.81	20.95	0.00	20.95	12/13/2023, 8
1-HR	1ST	89.94906	ug/m^3	RES_169	979860.30	3742678.81	20.92	0.00	20.92	12/13/2023, 8
1-HR	1ST	88.37961	ug/m^3	RES_170	979860.30	3742698.81	20.98	0.00	20.98	12/13/2023, 8
1-HR	1ST	86.18436	ug/m^3	RES_171	979860.30	3742718.81	21.06	0.00	21.06	12/13/2023, 8
1-HR	1ST	84.40591	ug/m^3	RES_172	979860.30	3742738.81	21.00	0.00	21.00	1/28/2020, 8
1-HR	1ST	83.53576	ug/m^3	RES_173	979860.30	3742758.81	20.91	0.00	20.91	1/28/2020, 8
1-HR	1ST	82.25257	ug/m^3	RES_174	979860.30	3742778.81	20.80	0.00	20.80	1/28/2020, 8
1-HR	1ST	117.63360	ug/m^3	RES_175	979880.30	3742458.81	20.87	0.00	20.87	1/17/2023, 8
1-HR	1ST	115.09660	ug/m^3	RES_176	979880.30	3742478.81	21.14	0.00	21.14	1/17/2023, 8
1-HR	1ST	110.85803	ug/m^3	RES_177	979880.30	3742498.81	21.35	0.00	21.35	1/17/2023, 8
1-HR	1ST	104.87197	ug/m^3	RES_178	979880.30	3742518.81	21.52	0.00	21.52	1/17/2023, 8
1-HR	1ST	97.34553	ug/m^3	RES_179	979880.30	3742538.81	21.61	0.00	21.61	1/17/2023, 8
1-HR	1ST	95.34919	ug/m^3	RES_180	979880.30	3742558.81	21.56	0.00	21.56	12/13/2023, 8
1-HR	1ST	96.35716	ug/m^3	RES_181	979880.30	3742578.81	21.27	0.00	21.27	12/13/2023, 8

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	96.88967	ug/m^3	RES_182	979880.30	3742598.81	21.04	0.00	21.04	12/13/2023, 8
1-HR	1ST	96.81978	ug/m^3	RES_183	979880.30	3742618.81	21.14	0.00	21.14	12/13/2023, 8
1-HR	1ST	96.13805	ug/m^3	RES_184	979880.30	3742638.81	21.17	0.00	21.17	12/13/2023, 8
1-HR	1ST	94.78060	ug/m^3	RES_185	979880.30	3742658.81	21.16	0.00	21.16	12/13/2023, 8
1-HR	1ST	92.72919	ug/m^3	RES_186	979880.30	3742678.81	21.04	0.00	21.04	12/13/2023, 8
1-HR	1ST	90.07283	ug/m^3	RES_187	979880.30	3742698.81	21.05	0.00	21.05	1/28/2020, 8
1-HR	1ST	89.23174	ug/m^3	RES_188	979880.30	3742718.81	21.11	0.00	21.11	1/28/2020, 8
1-HR	1ST	87.93455	ug/m^3	RES_189	979880.30	3742738.81	20.96	0.00	20.96	1/28/2020, 8
1-HR	1ST	86.11470	ug/m^3	RES_190	979880.30	3742758.81	20.81	0.00	20.81	1/28/2020, 8
1-HR	1ST	122.33465	ug/m^3	RES_191	979900.30	3742458.81	20.86	0.00	20.86	1/17/2023, 8
1-HR	1ST	118.01502	ug/m^3	RES_192	979900.30	3742478.81	21.10	0.00	21.10	1/17/2023, 8
1-HR	1ST	111.78362	ug/m^3	RES_193	979900.30	3742498.81	21.29	0.00	21.29	1/17/2023, 8
1-HR	1ST	103.66606	ug/m^3	RES_194	979900.30	3742518.81	21.47	0.00	21.47	1/17/2023, 8
1-HR	1ST	102.08323	ug/m^3	RES_195	979900.30	3742538.81	21.58	0.00	21.58	12/13/2023, 8
1-HR	1ST	102.83478	ug/m^3	RES_196	979900.30	3742558.81	21.58	0.00	21.58	12/13/2023, 8
1-HR	1ST	103.16235	ug/m^3	RES_197	979900.30	3742578.81	21.34	0.00	21.34	12/13/2023, 8
1-HR	1ST	102.84782	ug/m^3	RES_198	979900.30	3742598.81	21.13	0.00	21.13	12/13/2023, 8
1-HR	1ST	101.74840	ug/m^3	RES_199	979900.30	3742618.81	21.26	0.00	21.26	12/13/2023, 8
1-HR	1ST	99.90889	ug/m^3	RES_200	979900.30	3742638.81	21.32	0.00	21.32	12/13/2023, 8
1-HR	1ST	97.28935	ug/m^3	RES_201	979900.30	3742658.81	21.32	0.00	21.32	12/13/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	95.54692	ug/m^3	RES_202	979900.30	3742678.81	21.20	0.00	21.20	1/28/2020, 8
1-HR	1ST	94.23613	ug/m^3	RES_203	979900.30	3742698.81	21.23	0.00	21.23	1/28/2020, 8
1-HR	1ST	92.35434	ug/m^3	RES_204	979900.30	3742718.81	21.34	0.00	21.34	1/28/2020, 8
1-HR	1ST	90.00826	ug/m^3	RES_205	979900.30	3742738.81	21.12	0.00	21.12	1/28/2020, 8
1-HR	1ST	87.16013	ug/m^3	RES_206	979900.30	3742758.81	20.80	0.00	20.80	1/28/2020, 8
1-HR	1ST	126.14298	ug/m^3	RES_207	979920.30	3742458.81	20.79	0.00	20.79	1/17/2023, 8
1-HR	1ST	119.58709	ug/m^3	RES_208	979920.30	3742478.81	20.98	0.00	20.98	1/17/2023, 8
1-HR	1ST	110.86897	ug/m^3	RES_209	979920.30	3742498.81	21.17	0.00	21.17	1/17/2023, 8
1-HR	1ST	109.40554	ug/m^3	RES_210	979920.30	3742518.81	21.36	0.00	21.36	12/13/2023, 8
1-HR	1ST	109.93871	ug/m^3	RES_211	979920.30	3742538.81	21.52	0.00	21.52	12/13/2023, 8
1-HR	1ST	109.97897	ug/m^3	RES_212	979920.30	3742558.81	21.53	0.00	21.53	12/13/2023, 8
1-HR	1ST	109.34432	ug/m^3	RES_213	979920.30	3742578.81	21.34	0.00	21.34	12/13/2023, 8
1-HR	1ST	107.85424	ug/m^3	RES_214	979920.30	3742598.81	21.16	0.00	21.16	12/13/2023, 8
1-HR	1ST	105.41857	ug/m^3	RES_215	979920.30	3742618.81	21.36	0.00	21.36	12/13/2023, 8
1-HR	1ST	102.57377	ug/m^3	RES_216	979920.30	3742638.81	21.43	0.00	21.43	1/28/2020, 8
1-HR	1ST	101.30272	ug/m^3	RES_217	979920.30	3742658.81	21.41	0.00	21.41	1/28/2020, 8
1-HR	1ST	99.44762	ug/m^3	RES_218	979920.30	3742678.81	21.33	0.00	21.33	1/28/2020, 8
1-HR	1ST	96.92102	ug/m^3	RES_219	979920.30	3742698.81	21.37	0.00	21.37	1/28/2020, 8
1-HR	1ST	93.82764	ug/m^3	RES_220	979920.30	3742718.81	21.50	0.00	21.50	1/28/2020, 8
1-HR	1ST	90.30780	ug/m^3	RES_221	979920.30	3742738.81	21.21	0.00	21.21	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	86.37413	ug/m^3	RES_222	979920.30	3742758.81	20.94	0.00	20.94	1/28/2020, 8
1-HR	1ST	128.40029	ug/m^3	RES_223	979940.30	3742458.81	20.69	0.00	20.69	1/17/2023, 8
1-HR	1ST	119.03525	ug/m^3	RES_224	979940.30	3742478.81	20.87	0.00	20.87	1/17/2023, 8
1-HR	1ST	117.36716	ug/m^3	RES_225	979940.30	3742498.81	21.09	0.00	21.09	12/13/2023, 8
1-HR	1ST	117.73662	ug/m^3	RES_226	979940.30	3742518.81	21.34	0.00	21.34	12/13/2023, 8
1-HR	1ST	117.50453	ug/m^3	RES_227	979940.30	3742538.81	21.51	0.00	21.51	12/13/2023, 8
1-HR	1ST	116.48137	ug/m^3	RES_228	979940.30	3742558.81	21.42	0.00	21.42	12/13/2023, 8
1-HR	1ST	114.47230	ug/m^3	RES_229	979940.30	3742578.81	21.26	0.00	21.26	12/13/2023, 8
1-HR	1ST	111.42356	ug/m^3	RES_230	979940.30	3742598.81	21.12	0.00	21.12	12/13/2023, 8
1-HR	1ST	109.31431	ug/m^3	RES_231	979940.30	3742618.81	21.38	0.00	21.38	1/28/2020, 8
1-HR	1ST	107.43301	ug/m^3	RES_232	979940.30	3742638.81	21.47	0.00	21.47	1/28/2020, 8
1-HR	1ST	104.83701	ug/m^3	RES_233	979940.30	3742658.81	21.42	0.00	21.42	1/28/2020, 8
1-HR	1ST	101.55498	ug/m^3	RES_234	979940.30	3742678.81	21.39	0.00	21.39	1/28/2020, 8
1-HR	1ST	97.67387	ug/m^3	RES_235	979940.30	3742698.81	21.43	0.00	21.43	1/28/2020, 8
1-HR	1ST	93.26126	ug/m^3	RES_236	979940.30	3742718.81	21.54	0.00	21.54	1/28/2020, 8
1-HR	1ST	88.55193	ug/m^3	RES_237	979940.30	3742738.81	21.21	0.00	21.21	1/28/2020, 8
1-HR	1ST	83.55010	ug/m^3	RES_238	979940.30	3742758.81	20.96	0.00	20.96	1/28/2020, 8
1-HR	1ST	128.39967	ug/m^3	RES_239	979960.30	3742458.81	20.56	0.00	20.56	1/17/2023, 8
1-HR	1ST	126.18481	ug/m^3	RES_240	979960.30	3742478.81	20.73	0.00	20.73	12/13/2023, 8
1-HR	1ST	126.44503	ug/m^3	RES_241	979960.30	3742498.81	20.96	0.00	20.96	12/13/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	125.98121	ug/m^3	RES_242	979960.30	3742518.81	21.20	0.00	21.20	12/13/2023, 8
1-HR	1ST	124.44846	ug/m^3	RES_243	979960.30	3742538.81	21.38	0.00	21.38	12/13/2023, 8
1-HR	1ST	121.81291	ug/m^3	RES_244	979960.30	3742558.81	21.25	0.00	21.25	12/13/2023, 8
1-HR	1ST	118.41141	ug/m^3	RES_245	979960.30	3742578.81	21.11	0.00	21.11	1/28/2020, 8
1-HR	1ST	116.66487	ug/m^3	RES_246	979960.30	3742598.81	21.00	0.00	21.00	1/28/2020, 8
1-HR	1ST	113.97592	ug/m^3	RES_247	979960.30	3742618.81	21.29	0.00	21.29	1/28/2020, 8
1-HR	1ST	110.47548	ug/m^3	RES_248	979960.30	3742638.81	21.40	0.00	21.40	1/28/2020, 8
1-HR	1ST	106.24183	ug/m^3	RES_249	979960.30	3742658.81	21.34	0.00	21.34	1/28/2020, 8
1-HR	1ST	101.40400	ug/m^3	RES_250	979960.30	3742678.81	21.35	0.00	21.35	1/28/2020, 8
1-HR	1ST	96.04638	ug/m^3	RES_251	979960.30	3742698.81	21.38	0.00	21.38	1/28/2020, 8
1-HR	1ST	90.35525	ug/m^3	RES_252	979960.30	3742718.81	21.45	0.00	21.45	1/28/2020, 8
1-HR	1ST	84.53928	ug/m^3	RES_253	979960.30	3742738.81	21.12	0.00	21.12	1/28/2020, 8
1-HR	1ST	80.19787	ug/m^3	RES_254	979960.30	3742758.81	20.84	0.00	20.84	12/29/2023, 8
1-HR	1ST	136.07119	ug/m^3	RES_255	979980.30	3742458.81	20.41	0.00	20.41	12/13/2023, 8
1-HR	1ST	136.31209	ug/m^3	RES_256	979980.30	3742478.81	20.57	0.00	20.57	12/13/2023, 8
1-HR	1ST	135.62674	ug/m^3	RES_257	979980.30	3742498.81	20.78	0.00	20.78	12/13/2023, 8
1-HR	1ST	133.57687	ug/m^3	RES_258	979980.30	3742518.81	20.98	0.00	20.98	12/13/2023, 8
1-HR	1ST	130.02909	ug/m^3	RES_259	979980.30	3742538.81	21.14	0.00	21.14	12/13/2023, 8
1-HR	1ST	127.14721	ug/m^3	RES_260	979980.30	3742558.81	21.05	0.00	21.05	1/28/2020, 8
1-HR	1ST	124.62379	ug/m^3	RES_261	979980.30	3742578.81	20.93	0.00	20.93	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	121.02744	ug/m^3	RES_262	979980.30	3742598.81	20.80	0.00	20.80	1/28/2020, 8
1-HR	1ST	116.35708	ug/m^3	RES_263	979980.30	3742618.81	21.07	0.00	21.07	1/28/2020, 8
1-HR	1ST	110.94117	ug/m^3	RES_264	979980.30	3742638.81	21.17	0.00	21.17	1/28/2020, 8
1-HR	1ST	104.94145	ug/m^3	RES_265	979980.30	3742658.81	21.11	0.00	21.11	1/28/2020, 8
1-HR	1ST	98.48228	ug/m^3	RES_266	979980.30	3742678.81	21.15	0.00	21.15	1/28/2020, 8
1-HR	1ST	91.74305	ug/m^3	RES_267	979980.30	3742698.81	21.21	0.00	21.21	1/28/2020, 8
1-HR	1ST	87.56080	ug/m^3	RES_268	979980.30	3742718.81	21.27	0.00	21.27	12/29/2023, 8
1-HR	1ST	86.24758	ug/m^3	RES_269	979980.30	3742738.81	20.91	0.00	20.91	12/29/2023, 8
1-HR	1ST	84.70087	ug/m^3	RES_270	979980.30	3742758.81	20.58	0.00	20.58	12/29/2023, 8
1-HR	1ST	147.76844	ug/m^3	RES_271	980000.30	3742458.81	20.18	0.00	20.18	12/13/2023, 8
1-HR	1ST	146.83758	ug/m^3	RES_272	980000.30	3742478.81	20.34	0.00	20.34	12/13/2023, 8
1-HR	1ST	144.10330	ug/m^3	RES_273	980000.30	3742498.81	20.51	0.00	20.51	12/13/2023, 8
1-HR	1ST	139.43246	ug/m^3	RES_274	980000.30	3742518.81	20.69	0.00	20.69	12/13/2023, 8
1-HR	1ST	137.00869	ug/m^3	RES_275	980000.30	3742538.81	20.86	0.00	20.86	1/28/2020, 8
1-HR	1ST	133.35594	ug/m^3	RES_276	980000.30	3742558.81	20.80	0.00	20.80	1/28/2020, 8
1-HR	1ST	128.43096	ug/m^3	RES_277	980000.30	3742578.81	20.71	0.00	20.71	1/28/2020, 8
1-HR	1ST	122.44089	ug/m^3	RES_278	980000.30	3742598.81	20.61	0.00	20.61	1/28/2020, 8
1-HR	1ST	115.55908	ug/m^3	RES_279	980000.30	3742618.81	20.84	0.00	20.84	1/28/2020, 8
1-HR	1ST	108.11158	ug/m^3	RES_280	980000.30	3742638.81	20.89	0.00	20.89	1/28/2020, 8
1-HR	1ST	100.40760	ug/m^3	RES_281	980000.30	3742658.81	20.70	0.00	20.70	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	96.16301	ug/m^3	RES_282	980000.30	3742678.81	20.78	0.00	20.78	12/29/2023, 8
1-HR	1ST	94.31490	ug/m^3	RES_283	980000.30	3742698.81	20.88	0.00	20.88	12/29/2023, 8
1-HR	1ST	92.22802	ug/m^3	RES_284	980000.30	3742718.81	20.97	0.00	20.97	12/29/2023, 8
1-HR	1ST	89.96443	ug/m^3	RES_285	980000.30	3742738.81	20.73	0.00	20.73	12/29/2023, 8
1-HR	1ST	87.46887	ug/m^3	RES_286	980000.30	3742758.81	20.49	0.00	20.49	12/29/2023, 8
1-HR	1ST	148.32126	ug/m^3	RES_287	980020.30	3742518.81	20.33	0.00	20.33	1/28/2020, 8
1-HR	1ST	143.02429	ug/m^3	RES_288	980020.30	3742538.81	20.52	0.00	20.52	1/28/2020, 8
1-HR	1ST	136.32433	ug/m^3	RES_289	980020.30	3742558.81	20.48	0.00	20.48	1/28/2020, 8
1-HR	1ST	128.48540	ug/m^3	RES_290	980020.30	3742578.81	20.43	0.00	20.43	1/28/2020, 8
1-HR	1ST	119.86182	ug/m^3	RES_291	980020.30	3742598.81	20.40	0.00	20.40	1/28/2020, 8
1-HR	1ST	110.74057	ug/m^3	RES_292	980020.30	3742618.81	20.58	0.00	20.58	1/28/2020, 8
1-HR	1ST	106.08325	ug/m^3	RES_293	980020.30	3742638.81	20.61	0.00	20.61	12/29/2023, 8
1-HR	1ST	103.75323	ug/m^3	RES_294	980020.30	3742658.81	20.38	0.00	20.38	12/29/2023, 8
1-HR	1ST	101.01244	ug/m^3	RES_295	980020.30	3742678.81	20.49	0.00	20.49	12/29/2023, 8
1-HR	1ST	98.01538	ug/m^3	RES_296	980020.30	3742698.81	20.65	0.00	20.65	12/29/2023, 8
1-HR	1ST	94.80970	ug/m^3	RES_297	980020.30	3742718.81	20.75	0.00	20.75	12/29/2023, 8
1-HR	1ST	91.47612	ug/m^3	RES_298	980020.30	3742738.81	20.61	0.00	20.61	12/29/2023, 8
1-HR	1ST	88.04091	ug/m^3	RES_299	980020.30	3742758.81	20.47	0.00	20.47	12/29/2023, 8
1-HR	1ST	111.19198	ug/m^3	RES_300	980040.30	3742638.81	20.36	0.00	20.36	12/29/2023, 8
1-HR	1ST	107.39424	ug/m^3	RES_301	980040.30	3742658.81	20.23	0.00	20.23	12/29/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	103.29376	ug/m^3	RES_302	980040.30	3742678.81	20.34	0.00	20.34	12/29/2023, 8
1-HR	1ST	99.03537	ug/m^3	RES_303	980040.30	3742698.81	20.47	0.00	20.47	12/29/2023, 8
1-HR	1ST	94.72005	ug/m^3	RES_304	980040.30	3742718.81	20.54	0.00	20.54	12/29/2023, 8
1-HR	1ST	90.40549	ug/m^3	RES_305	980040.30	3742738.81	20.47	0.00	20.47	12/29/2023, 8
1-HR	1ST	179.20290	ug/m^3	RES_306	980047.32	3742438.94	19.50	0.00	19.50	12/13/2023, 8
1-HR	1ST	174.62124	ug/m^3	RES_307	980047.32	3742458.94	19.54	0.00	19.54	1/28/2020, 8
1-HR	1ST	169.83779	ug/m^3	RES_308	980047.32	3742478.94	19.63	0.00	19.63	1/28/2020, 8
1-HR	1ST	162.60654	ug/m^3	RES_309	980047.32	3742498.94	19.73	0.00	19.73	1/28/2020, 8
1-HR	1ST	153.41360	ug/m^3	RES_310	980047.32	3742518.94	19.83	0.00	19.83	1/28/2020, 8
1-HR	1ST	142.83138	ug/m^3	RES_311	980047.32	3742538.94	19.93	0.00	19.93	1/28/2020, 8
1-HR	1ST	197.11304	ug/m^3	RES_312	980067.32	3742418.94	19.54	0.00	19.54	12/13/2023, 8
1-HR	1ST	192.71690	ug/m^3	RES_313	980067.32	3742438.94	19.61	0.00	19.61	1/28/2020, 8
1-HR	1ST	185.12474	ug/m^3	RES_314	980067.32	3742458.94	19.66	0.00	19.66	1/28/2020, 8
1-HR	1ST	174.67633	ug/m^3	RES_315	980067.32	3742478.94	19.67	0.00	19.67	1/28/2020, 8
1-HR	1ST	162.19618	ug/m^3	RES_316	980067.32	3742498.94	19.74	0.00	19.74	1/28/2020, 8
1-HR	1ST	148.48018	ug/m^3	RES_317	980067.32	3742518.94	19.80	0.00	19.80	1/28/2020, 8
1-HR	1ST	139.61975	ug/m^3	RES_318	980067.32	3742538.94	19.83	0.00	19.83	12/29/2023, 8
1-HR	1ST	135.05728	ug/m^3	RES_319	980067.32	3742558.94	19.82	0.00	19.82	12/29/2023, 8
1-HR	1ST	129.89513	ug/m^3	RES_320	980067.32	3742578.94	19.83	0.00	19.83	12/29/2023, 8
1-HR	1ST	213.76426	ug/m^3	RES_321	980087.32	3742418.94	19.57	0.00	19.57	1/28/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	202.10065	ug/m^3	RES_322	980087.32	3742438.94	19.76	0.00	19.76	1/28/2020, 8
1-HR	1ST	187.21257	ug/m^3	RES_323	980087.32	3742458.94	19.86	0.00	19.86	1/28/2020, 8
1-HR	1ST	170.41914	ug/m^3	RES_324	980087.32	3742478.94	19.84	0.00	19.84	1/28/2020, 8
1-HR	1ST	160.28456	ug/m^3	RES_325	980087.32	3742498.94	19.90	0.00	19.90	12/29/2023, 8
1-HR	1ST	153.73003	ug/m^3	RES_326	980087.32	3742518.94	19.93	0.00	19.93	12/29/2023, 8
1-HR	1ST	146.55472	ug/m^3	RES_327	980087.32	3742538.94	19.90	0.00	19.90	12/29/2023, 8
1-HR	1ST	138.96131	ug/m^3	RES_328	980087.32	3742558.94	19.87	0.00	19.87	12/29/2023, 8
1-HR	1ST	131.25232	ug/m^3	RES_329	980087.32	3742578.94	19.87	0.00	19.87	12/29/2023, 8
1-HR	1ST	238.79291	ug/m^3	RES_330	980107.32	3742398.94	19.38	0.00	19.38	1/28/2020, 8
1-HR	1ST	221.22632	ug/m^3	RES_331	980107.32	3742418.94	19.62	0.00	19.62	1/28/2020, 8
1-HR	1ST	200.04821	ug/m^3	RES_332	980107.32	3742438.94	19.87	0.00	19.87	1/28/2020, 8
1-HR	1ST	188.34177	ug/m^3	RES_333	980107.32	3742458.94	20.01	0.00	20.01	12/29/2023, 8
1-HR	1ST	178.35497	ug/m^3	RES_334	980107.32	3742478.94	20.03	0.00	20.03	12/29/2023, 8
1-HR	1ST	167.73905	ug/m^3	RES_335	980107.32	3742498.94	20.07	0.00	20.07	12/29/2023, 8
1-HR	1ST	156.97277	ug/m^3	RES_336	980107.32	3742518.94	20.08	0.00	20.08	12/29/2023, 8
1-HR	1ST	146.33415	ug/m^3	RES_337	980107.32	3742538.94	20.05	0.00	20.05	12/29/2023, 8
1-HR	1ST	136.01171	ug/m^3	RES_338	980107.32	3742558.94	20.01	0.00	20.01	12/29/2023, 8
1-HR	1ST	128.89332	ug/m^3	RES_339	980107.32	3742578.94	19.98	0.00	19.98	1/18/2021, 8
1-HR	1ST	242.47116	ug/m^3	RES_340	980127.32	3742398.94	19.43	0.00	19.43	1/28/2020, 8
1-HR	1ST	223.46871	ug/m^3	RES_341	980127.32	3742418.94	19.68	0.00	19.68	12/29/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	208.72721	ug/m^3	RES_342	980127.32	3742438.94	19.89	0.00	19.89	12/29/2023, 8
1-HR	1ST	193.38542	ug/m^3	RES_343	980127.32	3742458.94	20.05	0.00	20.05	12/29/2023, 8
1-HR	1ST	178.92520	ug/m^3	RES_344	980127.32	3742478.94	20.16	0.00	20.16	1/18/2021, 8
1-HR	1ST	171.76886	ug/m^3	RES_345	980127.32	3742498.94	20.20	0.00	20.20	1/18/2021, 8
1-HR	1ST	164.94788	ug/m^3	RES_346	980127.32	3742518.94	20.21	0.00	20.21	1/18/2021, 8
1-HR	1ST	158.45256	ug/m^3	RES_347	980127.32	3742538.94	20.20	0.00	20.20	1/18/2021, 8
1-HR	1ST	152.32098	ug/m^3	RES_348	980127.32	3742558.94	20.17	0.00	20.17	1/18/2021, 8
1-HR	1ST	146.44361	ug/m^3	RES_349	980127.32	3742578.94	20.15	0.00	20.15	1/18/2021, 8
1-HR	1ST	140.92373	ug/m^3	RES_350	980127.32	3742598.94	20.14	0.00	20.14	1/18/2021, 8
1-HR	1ST	290.00231	ug/m^3	RES_351	980147.32	3742378.94	19.27	0.00	19.27	1/18/2021, 8
1-HR	1ST	268.96140	ug/m^3	RES_352	980147.32	3742398.94	19.54	0.00	19.54	1/18/2021, 8
1-HR	1ST	250.90659	ug/m^3	RES_353	980147.32	3742418.94	19.69	0.00	19.69	1/18/2021, 8
1-HR	1ST	234.96671	ug/m^3	RES_354	980147.32	3742438.94	19.83	0.00	19.83	1/18/2021, 8
1-HR	1ST	220.82152	ug/m^3	RES_355	980147.32	3742458.94	19.97	0.00	19.97	1/18/2021, 8
1-HR	1ST	208.15166	ug/m^3	RES_356	980147.32	3742478.94	20.13	0.00	20.13	1/18/2021, 8
1-HR	1ST	196.72213	ug/m^3	RES_357	980147.32	3742498.94	20.24	0.00	20.24	1/18/2021, 8
1-HR	1ST	186.41076	ug/m^3	RES_358	980147.32	3742518.94	20.31	0.00	20.31	1/18/2021, 8
1-HR	1ST	177.01991	ug/m^3	RES_359	980147.32	3742538.94	20.30	0.00	20.30	1/18/2021, 8
1-HR	1ST	168.43746	ug/m^3	RES_360	980147.32	3742558.94	20.31	0.00	20.31	1/18/2021, 8
1-HR	1ST	160.51419	ug/m^3	RES_361	980147.32	3742578.94	20.32	0.00	20.32	1/18/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	153.25577	ug/m^3	RES_362	980147.32	3742598.94	20.34	0.00	20.34	1/18/2021, 8
1-HR	1ST	146.50084	ug/m^3	RES_363	980147.32	3742618.94	20.43	0.00	20.43	1/18/2021, 8
1-HR	1ST	354.11282	ug/m^3	RES_364	980167.32	3742378.94	19.31	0.00	19.31	1/18/2021, 8
1-HR	1ST	318.49093	ug/m^3	RES_365	980167.32	3742398.94	19.53	0.00	19.53	1/18/2021, 8
1-HR	1ST	289.58911	ug/m^3	RES_366	980167.32	3742418.94	19.73	0.00	19.73	1/18/2021, 8
1-HR	1ST	265.51228	ug/m^3	RES_367	980167.32	3742438.94	19.87	0.00	19.87	1/18/2021, 8
1-HR	1ST	245.27268	ug/m^3	RES_368	980167.32	3742458.94	20.01	0.00	20.01	1/18/2021, 8
1-HR	1ST	227.89753	ug/m^3	RES_369	980167.32	3742478.94	20.19	0.00	20.19	1/18/2021, 8
1-HR	1ST	212.77167	ug/m^3	RES_370	980167.32	3742498.94	20.29	0.00	20.29	1/18/2021, 8
1-HR	1ST	199.51627	ug/m^3	RES_371	980167.32	3742518.94	20.33	0.00	20.33	1/18/2021, 8
1-HR	1ST	187.76468	ug/m^3	RES_372	980167.32	3742538.94	20.36	0.00	20.36	1/18/2021, 8
1-HR	1ST	177.29936	ug/m^3	RES_373	980167.32	3742558.94	20.34	0.00	20.34	1/18/2021, 8
1-HR	1ST	167.85248	ug/m^3	RES_374	980167.32	3742578.94	20.29	0.00	20.29	1/18/2021, 8
1-HR	1ST	159.29035	ug/m^3	RES_375	980167.32	3742598.94	20.31	0.00	20.31	1/18/2021, 8
1-HR	1ST	151.44341	ug/m^3	RES_376	980167.32	3742618.94	20.43	0.00	20.43	1/18/2021, 8
1-HR	1ST	144.29797	ug/m^3	RES_377	980167.32	3742638.94	20.62	0.00	20.62	1/18/2021, 8
1-HR	1ST	137.67948	ug/m^3	RES_378	980167.32	3742658.94	20.80	0.00	20.80	1/18/2021, 8
1-HR	1ST	422.83829	ug/m^3	RES_379	980187.32	3742358.94	19.11	0.00	19.11	1/18/2021, 8
1-HR	1ST	371.20874	ug/m^3	RES_380	980187.32	3742378.94	19.26	0.00	19.26	1/18/2021, 8
1-HR	1ST	330.57538	ug/m^3	RES_381	980187.32	3742398.94	19.43	0.00	19.43	1/18/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	297.95532	ug/m^3	RES_382	980187.32	3742418.94	19.67	0.00	19.67	1/18/2021, 8
1-HR	1ST	271.25853	ug/m^3	RES_383	980187.32	3742438.94	19.85	0.00	19.85	1/18/2021, 8
1-HR	1ST	248.88434	ug/m^3	RES_384	980187.32	3742458.94	20.02	0.00	20.02	1/18/2021, 8
1-HR	1ST	229.96868	ug/m^3	RES_385	980187.32	3742478.94	20.17	0.00	20.17	1/18/2021, 8
1-HR	1ST	213.70951	ug/m^3	RES_386	980187.32	3742498.94	20.22	0.00	20.22	1/18/2021, 8
1-HR	1ST	199.54239	ug/m^3	RES_387	980187.32	3742518.94	20.22	0.00	20.22	1/18/2021, 8
1-HR	1ST	187.02056	ug/m^3	RES_388	980187.32	3742538.94	20.25	0.00	20.25	1/18/2021, 8
1-HR	1ST	175.93672	ug/m^3	RES_389	980187.32	3742558.94	20.29	0.00	20.29	1/18/2021, 8
1-HR	1ST	166.00266	ug/m^3	RES_390	980187.32	3742578.94	20.36	0.00	20.36	1/18/2021, 8
1-HR	1ST	157.02240	ug/m^3	RES_391	980187.32	3742598.94	20.44	0.00	20.44	1/18/2021, 8
1-HR	1ST	148.88782	ug/m^3	RES_392	980187.32	3742618.94	20.61	0.00	20.61	1/18/2021, 8
1-HR	1ST	141.47355	ug/m^3	RES_393	980187.32	3742638.94	20.86	0.00	20.86	1/18/2021, 8
1-HR	1ST	134.76223	ug/m^3	RES_394	980187.32	3742658.94	20.93	0.00	20.93	1/18/2021, 8
1-HR	1ST	128.58075	ug/m^3	RES_395	980187.32	3742678.94	20.90	0.00	20.90	1/18/2021, 8
1-HR	1ST	559.41804	ug/m^3	RES_396	980207.32	3742338.94	18.87	0.00	18.87	2/5/2021, 8
1-HR	1ST	453.31100	ug/m^3	RES_397	980207.32	3742358.94	19.03	0.00	19.03	2/5/2021, 8
1-HR	1ST	389.54282	ug/m^3	RES_398	980207.32	3742378.94	19.15	0.00	19.15	2/5/2021, 8
1-HR	1ST	323.26833	ug/m^3	RES_399	980207.32	3742398.94	19.30	0.00	19.30	2/5/2021, 8
1-HR	1ST	274.61700	ug/m^3	RES_400	980207.32	3742418.94	19.53	0.00	19.53	12/27/2023, 8
1-HR	1ST	248.97179	ug/m^3	RES_401	980207.32	3742438.94	19.78	0.00	19.78	1/18/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	229.61965	ug/m^3	RES_402	980207.32	3742458.94	20.00	0.00	20.00	1/18/2021, 8
1-HR	1ST	212.95098	ug/m^3	RES_403	980207.32	3742478.94	20.08	0.00	20.08	1/18/2021, 8
1-HR	1ST	198.35919	ug/m^3	RES_404	980207.32	3742498.94	20.10	0.00	20.10	1/18/2021, 8
1-HR	1ST	185.52462	ug/m^3	RES_405	980207.32	3742518.94	20.08	0.00	20.08	1/18/2021, 8
1-HR	1ST	174.07197	ug/m^3	RES_406	980207.32	3742538.94	20.10	0.00	20.10	1/18/2021, 8
1-HR	1ST	163.89918	ug/m^3	RES_407	980207.32	3742558.94	20.20	0.00	20.20	1/18/2021, 8
1-HR	1ST	154.64930	ug/m^3	RES_408	980207.32	3742578.94	20.37	0.00	20.37	1/18/2021, 8
1-HR	1ST	146.34983	ug/m^3	RES_409	980207.32	3742598.94	20.58	0.00	20.58	1/18/2021, 8
1-HR	1ST	138.79733	ug/m^3	RES_410	980207.32	3742618.94	20.79	0.00	20.79	1/18/2021, 8
1-HR	1ST	131.91591	ug/m^3	RES_411	980207.32	3742638.94	20.97	0.00	20.97	1/18/2021, 8
1-HR	1ST	125.69573	ug/m^3	RES_412	980207.32	3742658.94	20.92	0.00	20.92	1/18/2021, 8
1-HR	1ST	119.99230	ug/m^3	RES_413	980207.32	3742678.94	20.88	0.00	20.88	1/18/2021, 8
1-HR	1ST	114.67097	ug/m^3	RES_414	980207.32	3742698.94	20.93	0.00	20.93	1/18/2021, 8
1-HR	1ST	557.18890	ug/m^3	RES_415	980227.32	3742338.94	18.91	0.00	18.91	2/5/2021, 8
1-HR	1ST	493.76726	ug/m^3	RES_416	980227.32	3742358.94	18.95	0.00	18.95	2/5/2021, 8
1-HR	1ST	436.32232	ug/m^3	RES_417	980227.32	3742378.94	19.13	0.00	19.13	2/5/2021, 8
1-HR	1ST	379.20030	ug/m^3	RES_418	980227.32	3742398.94	19.35	0.00	19.35	2/5/2021, 8
1-HR	1ST	328.39379	ug/m^3	RES_419	980227.32	3742418.94	19.53	0.00	19.53	2/5/2021, 8
1-HR	1ST	284.24114	ug/m^3	RES_420	980227.32	3742438.94	19.76	0.00	19.76	2/5/2021, 8
1-HR	1ST	246.56115	ug/m^3	RES_421	980227.32	3742458.94	19.98	0.00	19.98	2/5/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	218.99677	ug/m^3	RES_422	980227.32	3742478.94	19.98	0.00	19.98	12/27/2023, 8
1-HR	1ST	203.24080	ug/m^3	RES_423	980227.32	3742498.94	19.98	0.00	19.98	12/27/2023, 8
1-HR	1ST	189.01091	ug/m^3	RES_424	980227.32	3742518.94	19.97	0.00	19.97	12/27/2023, 8
1-HR	1ST	176.12313	ug/m^3	RES_425	980227.32	3742538.94	19.99	0.00	19.99	12/27/2023, 8
1-HR	1ST	164.38959	ug/m^3	RES_426	980227.32	3742558.94	20.12	0.00	20.12	12/27/2023, 8
1-HR	1ST	153.72804	ug/m^3	RES_427	980227.32	3742578.94	20.36	0.00	20.36	12/27/2023, 8
1-HR	1ST	143.97433	ug/m^3	RES_428	980227.32	3742598.94	20.66	0.00	20.66	12/27/2023, 8
1-HR	1ST	135.07321	ug/m^3	RES_429	980227.32	3742618.94	20.88	0.00	20.88	12/27/2023, 8
1-HR	1ST	126.97643	ug/m^3	RES_430	980227.32	3742638.94	20.96	0.00	20.96	12/27/2023, 8
1-HR	1ST	119.59635	ug/m^3	RES_431	980227.32	3742658.94	20.89	0.00	20.89	12/27/2023, 8
1-HR	1ST	112.77882	ug/m^3	RES_432	980227.32	3742678.94	20.88	0.00	20.88	12/27/2023, 8
1-HR	1ST	106.40623	ug/m^3	RES_433	980227.32	3742698.94	21.04	0.00	21.04	12/27/2023, 8
1-HR	1ST	100.72508	ug/m^3	RES_434	980227.32	3742718.94	21.12	0.00	21.12	12/22/2020, 8
1-HR	1ST	96.97177	ug/m^3	RES_435	980227.32	3742738.94	21.20	0.00	21.20	12/22/2020, 8
1-HR	1ST	527.81443	ug/m^3	RES_436	980247.32	3742318.94	18.81	0.00	18.81	2/5/2021, 8
1-HR	1ST	493.32100	ug/m^3	RES_437	980247.32	3742338.94	18.91	0.00	18.91	2/5/2021, 8
1-HR	1ST	463.75849	ug/m^3	RES_438	980247.32	3742358.94	19.02	0.00	19.02	2/5/2021, 8
1-HR	1ST	430.65503	ug/m^3	RES_439	980247.32	3742378.94	19.18	0.00	19.18	2/5/2021, 8
1-HR	1ST	393.88830	ug/m^3	RES_440	980247.32	3742398.94	19.35	0.00	19.35	2/5/2021, 8
1-HR	1ST	356.00496	ug/m^3	RES_441	980247.32	3742418.94	19.55	0.00	19.55	2/5/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	319.03288	ug/m^3	RES_442	980247.32	3742438.94	19.78	0.00	19.78	2/5/2021, 8
1-HR	1ST	284.51752	ug/m^3	RES_443	980247.32	3742458.94	19.99	0.00	19.99	2/5/2021, 8
1-HR	1ST	253.06211	ug/m^3	RES_444	980247.32	3742478.94	19.99	0.00	19.99	2/5/2021, 8
1-HR	1ST	224.88078	ug/m^3	RES_445	980247.32	3742498.94	19.95	0.00	19.95	2/5/2021, 8
1-HR	1ST	199.74079	ug/m^3	RES_446	980247.32	3742518.94	19.89	0.00	19.89	2/5/2021, 8
1-HR	1ST	180.42764	ug/m^3	RES_447	980247.32	3742538.94	19.98	0.00	19.98	12/27/2023, 8
1-HR	1ST	170.19099	ug/m^3	RES_448	980247.32	3742558.94	20.15	0.00	20.15	12/27/2023, 8
1-HR	1ST	160.60679	ug/m^3	RES_449	980247.32	3742578.94	20.42	0.00	20.42	12/27/2023, 8
1-HR	1ST	151.64061	ug/m^3	RES_450	980247.32	3742598.94	20.65	0.00	20.65	12/27/2023, 8
1-HR	1ST	143.33014	ug/m^3	RES_451	980247.32	3742618.94	20.79	0.00	20.79	12/27/2023, 8
1-HR	1ST	135.62574	ug/m^3	RES_452	980247.32	3742638.94	20.82	0.00	20.82	12/27/2023, 8
1-HR	1ST	128.42524	ug/m^3	RES_453	980247.32	3742658.94	20.84	0.00	20.84	12/27/2023, 8
1-HR	1ST	121.68111	ug/m^3	RES_454	980247.32	3742678.94	20.90	0.00	20.90	12/27/2023, 8
1-HR	1ST	115.37272	ug/m^3	RES_455	980247.32	3742698.94	21.03	0.00	21.03	12/27/2023, 8
1-HR	1ST	109.51989	ug/m^3	RES_456	980247.32	3742718.94	21.14	0.00	21.14	12/27/2023, 8
1-HR	1ST	103.97728	ug/m^3	RES_457	980247.32	3742738.94	21.26	0.00	21.26	12/27/2023, 8
1-HR	1ST	98.82238	ug/m^3	RES_458	980247.32	3742758.94	21.37	0.00	21.37	12/27/2023, 8
1-HR	1ST	473.27457	ug/m^3	RES_459	980267.32	3742298.94	18.83	0.00	18.83	2/5/2021, 8
1-HR	1ST	446.40173	ug/m^3	RES_460	980267.32	3742318.94	18.86	0.00	18.86	2/5/2021, 8
1-HR	1ST	427.05687	ug/m^3	RES_461	980267.32	3742338.94	18.88	0.00	18.88	2/5/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	409.43612	ug/m^3	RES_462	980267.32	3742358.94	19.08	0.00	19.08	2/5/2021, 8
1-HR	1ST	392.71048	ug/m^3	RES_463	980267.32	3742378.94	19.23	0.00	19.23	2/5/2021, 8
1-HR	1ST	373.40502	ug/m^3	RES_464	980267.32	3742398.94	19.36	0.00	19.36	2/5/2021, 8
1-HR	1ST	351.04605	ug/m^3	RES_465	980267.32	3742418.94	19.54	0.00	19.54	2/5/2021, 8
1-HR	1ST	326.41532	ug/m^3	RES_466	980267.32	3742438.94	19.74	0.00	19.74	2/5/2021, 8
1-HR	1ST	300.72413	ug/m^3	RES_467	980267.32	3742458.94	19.93	0.00	19.93	2/5/2021, 8
1-HR	1ST	275.24856	ug/m^3	RES_468	980267.32	3742478.94	19.93	0.00	19.93	2/5/2021, 8
1-HR	1ST	250.53299	ug/m^3	RES_469	980267.32	3742498.94	19.92	0.00	19.92	2/5/2021, 8
1-HR	1ST	227.22291	ug/m^3	RES_470	980267.32	3742518.94	19.90	0.00	19.90	2/5/2021, 8
1-HR	1ST	205.52733	ug/m^3	RES_471	980267.32	3742538.94	20.00	0.00	20.00	2/5/2021, 8
1-HR	1ST	185.55799	ug/m^3	RES_472	980267.32	3742558.94	20.16	0.00	20.16	2/5/2021, 8
1-HR	1ST	167.34954	ug/m^3	RES_473	980267.32	3742578.94	20.41	0.00	20.41	2/5/2021, 8
1-HR	1ST	151.31846	ug/m^3	RES_474	980267.32	3742598.94	20.50	0.00	20.50	12/27/2023, 8
1-HR	1ST	144.46505	ug/m^3	RES_475	980267.32	3742618.94	20.55	0.00	20.55	12/27/2023, 8
1-HR	1ST	137.90128	ug/m^3	RES_476	980267.32	3742638.94	20.57	0.00	20.57	12/27/2023, 8
1-HR	1ST	131.60966	ug/m^3	RES_477	980267.32	3742658.94	20.74	0.00	20.74	12/27/2023, 8
1-HR	1ST	125.60071	ug/m^3	RES_478	980267.32	3742678.94	20.91	0.00	20.91	12/27/2023, 8
1-HR	1ST	119.91976	ug/m^3	RES_479	980267.32	3742698.94	20.90	0.00	20.90	12/27/2023, 8
1-HR	1ST	114.48334	ug/m^3	RES_480	980267.32	3742718.94	21.07	0.00	21.07	12/27/2023, 8
1-HR	1ST	109.30418	ug/m^3	RES_481	980267.32	3742738.94	21.30	0.00	21.30	12/27/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	104.40276	ug/m^3	RES_482	980267.32	3742758.94	21.49	0.00	21.49	12/27/2023, 8
1-HR	1ST	99.80794	ug/m^3	RES_483	980267.32	3742778.94	21.48	0.00	21.48	12/27/2023, 8
1-HR	1ST	403.77268	ug/m^3	RES_484	980287.32	3742278.94	18.85	0.00	18.85	2/5/2021, 8
1-HR	1ST	388.71044	ug/m^3	RES_485	980287.32	3742298.94	18.91	0.00	18.91	1/11/2022, 8
1-HR	1ST	380.02505	ug/m^3	RES_486	980287.32	3742318.94	18.89	0.00	18.89	1/11/2022, 8
1-HR	1ST	370.22239	ug/m^3	RES_487	980287.32	3742338.94	18.90	0.00	18.90	1/11/2022, 8
1-HR	1ST	356.28236	ug/m^3	RES_488	980287.32	3742358.94	19.08	0.00	19.08	1/11/2022, 8
1-HR	1ST	346.00452	ug/m^3	RES_489	980287.32	3742378.94	19.24	0.00	19.24	2/5/2021, 8
1-HR	1ST	336.16325	ug/m^3	RES_490	980287.32	3742398.94	19.39	0.00	19.39	2/5/2021, 8
1-HR	1ST	324.93118	ug/m^3	RES_491	980287.32	3742418.94	19.53	0.00	19.53	2/5/2021, 8
1-HR	1ST	311.52428	ug/m^3	RES_492	980287.32	3742438.94	19.66	0.00	19.66	2/5/2021, 8
1-HR	1ST	295.78975	ug/m^3	RES_493	980287.32	3742458.94	19.80	0.00	19.80	2/5/2021, 8
1-HR	1ST	278.53666	ug/m^3	RES_494	980287.32	3742478.94	19.82	0.00	19.82	2/5/2021, 8
1-HR	1ST	260.28950	ug/m^3	RES_495	980287.32	3742498.94	19.86	0.00	19.86	2/5/2021, 8
1-HR	1ST	241.69854	ug/m^3	RES_496	980287.32	3742518.94	19.93	0.00	19.93	2/5/2021, 8
1-HR	1ST	223.31108	ug/m^3	RES_497	980287.32	3742538.94	20.05	0.00	20.05	2/5/2021, 8
1-HR	1ST	205.39885	ug/m^3	RES_498	980287.32	3742558.94	20.20	0.00	20.20	2/5/2021, 8
1-HR	1ST	188.40328	ug/m^3	RES_499	980287.32	3742578.94	20.37	0.00	20.37	2/5/2021, 8
1-HR	1ST	172.37993	ug/m^3	RES_500	980287.32	3742598.94	20.34	0.00	20.34	2/5/2021, 8
1-HR	1ST	157.44274	ug/m^3	RES_501	980287.32	3742618.94	20.31	0.00	20.31	2/5/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	143.58435	ug/m^3	RES_502	980287.32	3742638.94	20.49	0.00	20.49	2/5/2021, 8
1-HR	1ST	130.79946	ug/m^3	RES_503	980287.32	3742658.94	20.68	0.00	20.68	2/5/2021, 8
1-HR	1ST	123.93708	ug/m^3	RES_504	980287.32	3742678.94	20.85	0.00	20.85	12/27/2023, 8
1-HR	1ST	119.30444	ug/m^3	RES_505	980287.32	3742698.94	20.92	0.00	20.92	12/27/2023, 8
1-HR	1ST	114.78335	ug/m^3	RES_506	980287.32	3742718.94	21.01	0.00	21.01	12/27/2023, 8
1-HR	1ST	110.44231	ug/m^3	RES_507	980287.32	3742738.94	21.11	0.00	21.11	12/27/2023, 8
1-HR	1ST	106.23225	ug/m^3	RES_508	980287.32	3742758.94	21.29	0.00	21.29	12/27/2023, 8
1-HR	1ST	102.14435	ug/m^3	RES_509	980287.32	3742778.94	21.26	0.00	21.26	12/27/2023, 8
1-HR	1ST	317.22096	ug/m^3	RES_510	980307.32	3742278.94	18.95	0.00	18.95	1/11/2022, 8
1-HR	1ST	321.48315	ug/m^3	RES_511	980307.32	3742298.94	19.01	0.00	19.01	1/11/2022, 8
1-HR	1ST	323.11560	ug/m^3	RES_512	980307.32	3742318.94	19.09	0.00	19.09	1/11/2022, 8
1-HR	1ST	322.86874	ug/m^3	RES_513	980307.32	3742338.94	19.19	0.00	19.19	1/11/2022, 8
1-HR	1ST	318.96350	ug/m^3	RES_514	980307.32	3742358.94	19.13	0.00	19.13	1/11/2022, 8
1-HR	1ST	311.69772	ug/m^3	RES_515	980307.32	3742378.94	19.22	0.00	19.22	1/11/2022, 8
1-HR	1ST	301.06081	ug/m^3	RES_516	980307.32	3742398.94	19.42	0.00	19.42	1/11/2022, 8
1-HR	1ST	286.87636	ug/m^3	RES_517	980307.32	3742418.94	19.52	0.00	19.52	2/5/2021, 8
1-HR	1ST	281.66795	ug/m^3	RES_518	980307.32	3742438.94	19.60	0.00	19.60	2/5/2021, 8
1-HR	1ST	274.49594	ug/m^3	RES_519	980307.32	3742458.94	19.64	0.00	19.64	2/5/2021, 8
1-HR	1ST	265.30862	ug/m^3	RES_520	980307.32	3742478.94	19.69	0.00	19.69	2/5/2021, 8
1-HR	1ST	254.38429	ug/m^3	RES_521	980307.32	3742498.94	19.79	0.00	19.79	2/5/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	241.94253	ug/m^3	RES_522	980307.32	3742518.94	19.96	0.00	19.96	2/5/2021, 8
1-HR	1ST	228.57166	ug/m^3	RES_523	980307.32	3742538.94	20.12	0.00	20.12	2/5/2021, 8
1-HR	1ST	214.66006	ug/m^3	RES_524	980307.32	3742558.94	20.24	0.00	20.24	2/5/2021, 8
1-HR	1ST	200.61131	ug/m^3	RES_525	980307.32	3742578.94	20.31	0.00	20.31	2/5/2021, 8
1-HR	1ST	186.76971	ug/m^3	RES_526	980307.32	3742598.94	20.25	0.00	20.25	2/5/2021, 8
1-HR	1ST	173.21909	ug/m^3	RES_527	980307.32	3742618.94	20.24	0.00	20.24	2/5/2021, 8
1-HR	1ST	160.18455	ug/m^3	RES_528	980307.32	3742638.94	20.49	0.00	20.49	2/5/2021, 8
1-HR	1ST	147.81728	ug/m^3	RES_529	980307.32	3742658.94	20.66	0.00	20.66	2/5/2021, 8
1-HR	1ST	136.14049	ug/m^3	RES_530	980307.32	3742678.94	20.78	0.00	20.78	2/5/2021, 8
1-HR	1ST	125.18471	ug/m^3	RES_531	980307.32	3742698.94	20.92	0.00	20.92	2/5/2021, 8
1-HR	1ST	114.98985	ug/m^3	RES_532	980307.32	3742718.94	21.01	0.00	21.01	2/5/2021, 8
1-HR	1ST	107.16473	ug/m^3	RES_533	980307.32	3742738.94	21.04	0.00	21.04	12/27/2023, 8
1-HR	1ST	103.94157	ug/m^3	RES_534	980307.32	3742758.94	21.02	0.00	21.02	12/27/2023, 8
1-HR	1ST	100.75536	ug/m^3	RES_535	980307.32	3742778.94	20.96	0.00	20.96	12/27/2023, 8
1-HR	1ST	312.64796	ug/m^3	RES_536	980327.32	3742258.94	18.84	0.00	18.84	12/16/2019, 8
1-HR	1ST	261.15386	ug/m^3	RES_537	980327.32	3742278.94	19.00	0.00	19.00	12/16/2019, 8
1-HR	1ST	242.30429	ug/m^3	RES_538	980327.32	3742298.94	19.09	0.00	19.09	1/11/2022, 8
1-HR	1ST	256.84947	ug/m^3	RES_539	980327.32	3742318.94	19.20	0.00	19.20	1/11/2022, 8
1-HR	1ST	266.80516	ug/m^3	RES_540	980327.32	3742338.94	19.30	0.00	19.30	1/11/2022, 8
1-HR	1ST	273.16217	ug/m^3	RES_541	980327.32	3742358.94	19.30	0.00	19.30	1/11/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	274.74167	ug/m^3	RES_542	980327.32	3742378.94	19.33	0.00	19.33	1/11/2022, 8
1-HR	1ST	272.93353	ug/m^3	RES_543	980327.32	3742398.94	19.36	0.00	19.36	1/11/2022, 8
1-HR	1ST	267.59712	ug/m^3	RES_544	980327.32	3742418.94	19.43	0.00	19.43	1/11/2022, 8
1-HR	1ST	258.34806	ug/m^3	RES_545	980327.32	3742438.94	19.51	0.00	19.51	1/11/2022, 8
1-HR	1ST	245.52670	ug/m^3	RES_546	980327.32	3742458.94	19.60	0.00	19.60	1/11/2022, 8
1-HR	1ST	239.74014	ug/m^3	RES_547	980327.32	3742478.94	19.68	0.00	19.68	2/5/2021, 8
1-HR	1ST	235.39519	ug/m^3	RES_548	980327.32	3742498.94	19.81	0.00	19.81	2/5/2021, 8
1-HR	1ST	229.22846	ug/m^3	RES_549	980327.32	3742518.94	20.06	0.00	20.06	2/5/2021, 8
1-HR	1ST	221.54962	ug/m^3	RES_550	980327.32	3742538.94	20.20	0.00	20.20	2/5/2021, 8
1-HR	1ST	212.65880	ug/m^3	RES_551	980327.32	3742558.94	20.27	0.00	20.27	2/5/2021, 8
1-HR	1ST	202.74380	ug/m^3	RES_552	980327.32	3742578.94	20.22	0.00	20.22	2/5/2021, 8
1-HR	1ST	192.25585	ug/m^3	RES_553	980327.32	3742598.94	20.24	0.00	20.24	2/5/2021, 8
1-HR	1ST	181.39091	ug/m^3	RES_554	980327.32	3742618.94	20.32	0.00	20.32	2/5/2021, 8
1-HR	1ST	170.45452	ug/m^3	RES_555	980327.32	3742638.94	20.50	0.00	20.50	2/5/2021, 8
1-HR	1ST	159.58289	ug/m^3	RES_556	980327.32	3742658.94	20.64	0.00	20.64	2/5/2021, 8
1-HR	1ST	148.96601	ug/m^3	RES_557	980327.32	3742678.94	20.75	0.00	20.75	2/5/2021, 8
1-HR	1ST	138.66711	ug/m^3	RES_558	980327.32	3742698.94	20.88	0.00	20.88	2/5/2021, 8
1-HR	1ST	128.83737	ug/m^3	RES_559	980327.32	3742718.94	20.94	0.00	20.94	2/5/2021, 8
1-HR	1ST	119.47238	ug/m^3	RES_560	980327.32	3742738.94	20.92	0.00	20.92	2/5/2021, 8
1-HR	1ST	110.63721	ug/m^3	RES_561	980327.32	3742758.94	20.82	0.00	20.82	2/5/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	273.27239	ug/m^3	RES_562	980347.32	3742258.94	18.77	0.00	18.77	12/16/2019, 8
1-HR	1ST	240.71701	ug/m^3	RES_563	980347.32	3742278.94	19.00	0.00	19.00	12/16/2019, 8
1-HR	1ST	205.42746	ug/m^3	RES_564	980347.32	3742298.94	19.17	0.00	19.17	12/16/2019, 8
1-HR	1ST	184.78816	ug/m^3	RES_565	980347.32	3742318.94	19.29	0.00	19.29	1/11/2022, 8
1-HR	1ST	204.51758	ug/m^3	RES_566	980347.32	3742338.94	19.35	0.00	19.35	1/11/2022, 8
1-HR	1ST	219.43122	ug/m^3	RES_567	980347.32	3742358.94	19.42	0.00	19.42	1/11/2022, 8
1-HR	1ST	229.90187	ug/m^3	RES_568	980347.32	3742378.94	19.44	0.00	19.44	1/11/2022, 8
1-HR	1ST	236.18623	ug/m^3	RES_569	980347.32	3742398.94	19.40	0.00	19.40	1/11/2022, 8
1-HR	1ST	238.73819	ug/m^3	RES_570	980347.32	3742418.94	19.35	0.00	19.35	1/11/2022, 8
1-HR	1ST	237.59588	ug/m^3	RES_571	980347.32	3742438.94	19.35	0.00	19.35	1/11/2022, 8
1-HR	1ST	232.72703	ug/m^3	RES_572	980347.32	3742458.94	19.47	0.00	19.47	1/11/2022, 8
1-HR	1ST	224.46697	ug/m^3	RES_573	980347.32	3742478.94	19.60	0.00	19.60	1/11/2022, 8
1-HR	1ST	213.26692	ug/m^3	RES_574	980347.32	3742498.94	19.77	0.00	19.77	1/11/2022, 8
1-HR	1ST	206.62815	ug/m^3	RES_575	980347.32	3742518.94	19.99	0.00	19.99	2/5/2021, 8
1-HR	1ST	204.29910	ug/m^3	RES_576	980347.32	3742538.94	20.11	0.00	20.11	2/5/2021, 8
1-HR	1ST	200.41373	ug/m^3	RES_577	980347.32	3742558.94	20.16	0.00	20.16	2/5/2021, 8
1-HR	1ST	195.09450	ug/m^3	RES_578	980347.32	3742578.94	20.10	0.00	20.10	2/5/2021, 8
1-HR	1ST	188.62587	ug/m^3	RES_579	980347.32	3742598.94	20.18	0.00	20.18	2/5/2021, 8
1-HR	1ST	181.23749	ug/m^3	RES_580	980347.32	3742618.94	20.33	0.00	20.33	2/5/2021, 8
1-HR	1ST	173.26043	ug/m^3	RES_581	980347.32	3742638.94	20.45	0.00	20.45	2/5/2021, 8

Sensitive Receptor Summary

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	164.80373	ug/m^3	RES_582	980347.32	3742658.94	20.60	0.00	20.60	2/5/2021, 8
1-HR	1ST	156.08976	ug/m^3	RES_583	980347.32	3742678.94	20.78	0.00	20.78	2/5/2021, 8
1-HR	1ST	147.34383	ug/m^3	RES_584	980347.32	3742698.94	20.80	0.00	20.80	2/5/2021, 8
1-HR	1ST	138.62435	ug/m^3	RES_585	980347.32	3742718.94	20.78	0.00	20.78	2/5/2021, 8
1-HR	1ST	130.09689	ug/m^3	RES_586	980347.32	3742738.94	20.71	0.00	20.71	2/5/2021, 8
1-HR	1ST	193.02590	ug/m^3	RES_587	980367.32	3742298.94	19.21	0.00	19.21	12/16/2019, 8
1-HR	1ST	165.77077	ug/m^3	RES_588	980367.32	3742318.94	19.35	0.00	19.35	12/16/2019, 8
1-HR	1ST	142.73452	ug/m^3	RES_589	980367.32	3742338.94	19.38	0.00	19.38	1/11/2022, 8
1-HR	1ST	163.55287	ug/m^3	RES_590	980367.32	3742358.94	19.47	0.00	19.47	1/11/2022, 8
1-HR	1ST	180.52947	ug/m^3	RES_591	980367.32	3742378.94	19.49	0.00	19.49	1/11/2022, 8
1-HR	1ST	193.50982	ug/m^3	RES_592	980367.32	3742398.94	19.44	0.00	19.44	1/11/2022, 8
1-HR	1ST	202.74946	ug/m^3	RES_593	980367.32	3742418.94	19.35	0.00	19.35	1/11/2022, 8
1-HR	1ST	208.40498	ug/m^3	RES_594	980367.32	3742438.94	19.30	0.00	19.30	1/11/2022, 8
1-HR	1ST	210.49601	ug/m^3	RES_595	980367.32	3742458.94	19.31	0.00	19.31	1/11/2022, 8
1-HR	1ST	209.18313	ug/m^3	RES_596	980367.32	3742478.94	19.45	0.00	19.45	1/11/2022, 8
1-HR	1ST	204.58897	ug/m^3	RES_597	980367.32	3742498.94	19.63	0.00	19.63	1/11/2022, 8
1-HR	1ST	197.16244	ug/m^3	RES_598	980367.32	3742518.94	19.84	0.00	19.84	1/11/2022, 8
1-HR	1ST	187.50486	ug/m^3	RES_599	980367.32	3742538.94	19.92	0.00	19.92	1/11/2022, 8
1-HR	1ST	180.16453	ug/m^3	RES_600	980367.32	3742558.94	19.96	0.00	19.96	2/5/2021, 8
1-HR	1ST	179.14264	ug/m^3	RES_601	980367.32	3742578.94	20.06	0.00	20.06	2/5/2021, 8

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	176.80721	ug/m^3	RES_602	980367.32	3742598.94	20.16	0.00	20.16	2/5/2021, 8
1-HR	1ST	173.19026	ug/m^3	RES_603	980367.32	3742618.94	20.26	0.00	20.26	2/5/2021, 8
1-HR	1ST	168.50525	ug/m^3	RES_604	980367.32	3742638.94	20.42	0.00	20.42	2/5/2021, 8
1-HR	1ST	163.02595	ug/m^3	RES_605	980367.32	3742658.94	20.57	0.00	20.57	2/5/2021, 8
1-HR	1ST	156.92348	ug/m^3	RES_606	980367.32	3742678.94	20.70	0.00	20.70	2/5/2021, 8
1-HR	1ST	150.36855	ug/m^3	RES_607	980367.32	3742698.94	20.66	0.00	20.66	2/5/2021, 8
1-HR	1ST	143.45521	ug/m^3	RES_608	980367.32	3742718.94	20.61	0.00	20.61	2/5/2021, 8
1-HR	1ST	158.52387	ug/m^3	RES_609	980387.32	3742318.94	19.26	0.00	19.26	12/16/2019, 8
1-HR	1ST	136.49080	ug/m^3	RES_610	980387.32	3742338.94	19.45	0.00	19.45	12/16/2019, 8
1-HR	1ST	114.73478	ug/m^3	RES_611	980387.32	3742358.94	19.49	0.00	19.49	12/16/2019, 8
1-HR	1ST	131.91050	ug/m^3	RES_612	980387.32	3742378.94	19.47	0.00	19.47	1/11/2022, 8
1-HR	1ST	149.06430	ug/m^3	RES_613	980387.32	3742398.94	19.40	0.00	19.40	1/11/2022, 8
1-HR	1ST	163.10432	ug/m^3	RES_614	980387.32	3742418.94	19.39	0.00	19.39	1/11/2022, 8
1-HR	1ST	173.97590	ug/m^3	RES_615	980387.32	3742438.94	19.32	0.00	19.32	1/11/2022, 8
1-HR	1ST	181.70185	ug/m^3	RES_616	980387.32	3742458.94	19.17	0.00	19.17	1/11/2022, 8
1-HR	1ST	186.19151	ug/m^3	RES_617	980387.32	3742478.94	19.25	0.00	19.25	1/11/2022, 8
1-HR	1ST	187.51230	ug/m^3	RES_618	980387.32	3742498.94	19.41	0.00	19.41	1/11/2022, 8
1-HR	1ST	185.87104	ug/m^3	RES_619	980387.32	3742518.94	19.62	0.00	19.62	1/11/2022, 8
1-HR	1ST	181.54710	ug/m^3	RES_620	980387.32	3742538.94	19.73	0.00	19.73	1/11/2022, 8
1-HR	1ST	174.92620	ug/m^3	RES_621	980387.32	3742558.94	19.81	0.00	19.81	1/11/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	166.48760	ug/m^3	RES_622	980387.32	3742578.94	19.99	0.00	19.99	1/11/2022, 8
1-HR	1ST	158.57267	ug/m^3	RES_623	980387.32	3742598.94	20.12	0.00	20.12	2/5/2021, 8
1-HR	1ST	158.50967	ug/m^3	RES_624	980387.32	3742618.94	20.20	0.00	20.20	2/5/2021, 8
1-HR	1ST	157.16967	ug/m^3	RES_625	980387.32	3742638.94	20.37	0.00	20.37	2/5/2021, 8
1-HR	1ST	154.83896	ug/m^3	RES_626	980387.32	3742658.94	20.49	0.00	20.49	2/5/2021, 8
1-HR	1ST	151.52774	ug/m^3	RES_627	980387.32	3742678.94	20.54	0.00	20.54	2/5/2021, 8
1-HR	1ST	147.47765	ug/m^3	RES_628	980387.32	3742698.94	20.51	0.00	20.51	2/5/2021, 8
1-HR	1ST	114.26705	ug/m^3	RES_629	980407.32	3742358.94	19.32	0.00	19.32	12/16/2019, 8
1-HR	1ST	96.50463	ug/m^3	RES_630	980407.32	3742378.94	19.39	0.00	19.39	12/16/2019, 8
1-HR	1ST	107.44072	ug/m^3	RES_631	980407.32	3742398.94	19.39	0.00	19.39	1/11/2022, 8
1-HR	1ST	123.76310	ug/m^3	RES_632	980407.32	3742418.94	19.20	0.00	19.20	1/11/2022, 8
1-HR	1ST	137.86693	ug/m^3	RES_633	980407.32	3742438.94	19.00	0.00	19.00	1/11/2022, 8
1-HR	1ST	149.43259	ug/m^3	RES_634	980407.32	3742458.94	19.04	0.00	19.04	1/11/2022, 8
1-HR	1ST	158.30788	ug/m^3	RES_635	980407.32	3742478.94	19.09	0.00	19.09	1/11/2022, 8
1-HR	1ST	164.42259	ug/m^3	RES_636	980407.32	3742498.94	19.17	0.00	19.17	1/11/2022, 8
1-HR	1ST	167.71304	ug/m^3	RES_637	980407.32	3742518.94	19.39	0.00	19.39	1/11/2022, 8
1-HR	1ST	168.33178	ug/m^3	RES_638	980407.32	3742538.94	19.59	0.00	19.59	1/11/2022, 8
1-HR	1ST	166.45324	ug/m^3	RES_639	980407.32	3742558.94	19.78	0.00	19.78	1/11/2022, 8
1-HR	1ST	162.38077	ug/m^3	RES_640	980407.32	3742578.94	19.92	0.00	19.92	1/11/2022, 8
1-HR	1ST	156.49521	ug/m^3	RES_641	980407.32	3742598.94	20.05	0.00	20.05	1/11/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	149.08057	ug/m^3	RES_642	980407.32	3742618.94	20.18	0.00	20.18	1/11/2022, 8
1-HR	1ST	140.79488	ug/m^3	RES_643	980407.32	3742638.94	20.31	0.00	20.31	2/5/2021, 8
1-HR	1ST	141.25545	ug/m^3	RES_644	980407.32	3742658.94	20.38	0.00	20.38	2/5/2021, 8
1-HR	1ST	140.75809	ug/m^3	RES_645	980407.32	3742678.94	20.40	0.00	20.40	2/5/2021, 8
1-HR	1ST	139.32838	ug/m^3	RES_646	980407.32	3742698.94	20.39	0.00	20.39	2/5/2021, 8
1-HR	1ST	97.00408	ug/m^3	RES_647	980427.32	3742378.94	19.03	0.00	19.03	12/16/2019, 8
1-HR	1ST	82.18979	ug/m^3	RES_648	980427.32	3742398.94	19.02	0.00	19.02	12/16/2019, 8
1-HR	1ST	88.41403	ug/m^3	RES_649	980427.32	3742418.94	18.85	0.00	18.85	1/11/2022, 8
1-HR	1ST	103.44832	ug/m^3	RES_650	980427.32	3742438.94	18.71	0.00	18.71	1/11/2022, 8
1-HR	1ST	116.90414	ug/m^3	RES_651	980427.32	3742458.94	18.94	0.00	18.94	1/11/2022, 8
1-HR	1ST	128.50106	ug/m^3	RES_652	980427.32	3742478.94	19.10	0.00	19.10	1/11/2022, 8
1-HR	1ST	137.94942	ug/m^3	RES_653	980427.32	3742498.94	19.22	0.00	19.22	1/11/2022, 8
1-HR	1ST	145.05566	ug/m^3	RES_654	980427.32	3742518.94	19.44	0.00	19.44	1/11/2022, 8
1-HR	1ST	149.73836	ug/m^3	RES_655	980427.32	3742538.94	19.64	0.00	19.64	1/11/2022, 8
1-HR	1ST	152.09856	ug/m^3	RES_656	980427.32	3742558.94	19.82	0.00	19.82	1/11/2022, 8
1-HR	1ST	152.17093	ug/m^3	RES_657	980427.32	3742578.94	19.86	0.00	19.86	1/11/2022, 8
1-HR	1ST	150.14438	ug/m^3	RES_658	980427.32	3742598.94	19.98	0.00	19.98	1/11/2022, 8
1-HR	1ST	146.30347	ug/m^3	RES_659	980427.32	3742618.94	20.19	0.00	20.19	1/11/2022, 8
1-HR	1ST	141.07319	ug/m^3	RES_660	980427.32	3742638.94	20.23	0.00	20.23	1/11/2022, 8
1-HR	1ST	134.56299	ug/m^3	RES_661	980427.32	3742658.94	20.26	0.00	20.26	1/11/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	127.22002	ug/m^3	RES_662	980427.32	3742678.94	20.28	0.00	20.28	1/11/2022, 8
1-HR	1ST	73.44013	ug/m^3	RES_663	980447.32	3742438.94	18.48	0.00	18.48	1/11/2022, 8
1-HR	1ST	86.98191	ug/m^3	RES_664	980447.32	3742458.94	18.79	0.00	18.79	1/11/2022, 8
1-HR	1ST	99.56065	ug/m^3	RES_665	980447.32	3742478.94	19.05	0.00	19.05	1/11/2022, 8
1-HR	1ST	110.75028	ug/m^3	RES_666	980447.32	3742498.94	19.26	0.00	19.26	1/11/2022, 8
1-HR	1ST	120.33098	ug/m^3	RES_667	980447.32	3742518.94	19.45	0.00	19.45	1/11/2022, 8
1-HR	1ST	127.96561	ug/m^3	RES_668	980447.32	3742538.94	19.55	0.00	19.55	1/11/2022, 8
1-HR	1ST	133.60383	ug/m^3	RES_669	980447.32	3742558.94	19.57	0.00	19.57	1/11/2022, 8
1-HR	1ST	137.16587	ug/m^3	RES_670	980447.32	3742578.94	19.72	0.00	19.72	1/11/2022, 8
1-HR	1ST	138.68185	ug/m^3	RES_671	980447.32	3742598.94	19.90	0.00	19.90	1/11/2022, 8
1-HR	1ST	138.37352	ug/m^3	RES_672	980447.32	3742618.94	20.06	0.00	20.06	1/11/2022, 8
1-HR	1ST	136.31573	ug/m^3	RES_673	980447.32	3742638.94	20.11	0.00	20.11	1/11/2022, 8
1-HR	1ST	132.76100	ug/m^3	RES_674	980447.32	3742658.94	20.15	0.00	20.15	1/11/2022, 8
1-HR	1ST	73.62375	ug/m^3	RES_675	980467.32	3742478.94	18.84	0.00	18.84	1/11/2022, 8
1-HR	1ST	85.14817	ug/m^3	RES_676	980467.32	3742498.94	19.14	0.00	19.14	1/11/2022, 8
1-HR	1ST	95.73935	ug/m^3	RES_677	980467.32	3742518.94	19.33	0.00	19.33	1/11/2022, 8
1-HR	1ST	105.11871	ug/m^3	RES_678	980467.32	3742538.94	19.38	0.00	19.38	1/11/2022, 8
1-HR	1ST	112.99571	ug/m^3	RES_679	980467.32	3742558.94	19.26	0.00	19.26	1/11/2022, 8
1-HR	1ST	126.19444	ug/m^3	RES_680	980467.32	3742618.94	19.89	0.00	19.89	1/11/2022, 8
1-HR	1ST	127.13989	ug/m^3	RES_681	980467.32	3742638.94	20.00	0.00	20.00	1/11/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	73.16838	ug/m^3	RES_682	980487.32	3742518.94	19.06	0.00	19.06	1/11/2022, 8
1-HR	1ST	83.03803	ug/m^3	RES_683	980487.32	3742538.94	19.14	0.00	19.14	1/11/2022, 8
1-HR	1ST	118.61903	ug/m^3	P_001	980077.18	3742616.83	20.05	0.00	20.05	12/29/2023, 8
1-HR	1ST	111.88770	ug/m^3	P_002	980077.18	3742636.83	20.26	0.00	20.26	12/29/2023, 8
1-HR	1ST	105.26141	ug/m^3	P_003	980077.18	3742656.83	20.55	0.00	20.55	12/29/2023, 8
1-HR	1ST	98.88709	ug/m^3	P_004	980077.18	3742676.83	20.68	0.00	20.68	12/29/2023, 8
1-HR	1ST	92.75729	ug/m^3	P_005	980077.18	3742696.83	20.68	0.00	20.68	12/29/2023, 8
1-HR	1ST	87.38838	ug/m^3	P_006	980077.18	3742716.83	20.55	0.00	20.55	1/18/2021, 8
1-HR	1ST	85.52545	ug/m^3	P_007	980077.18	3742736.83	20.45	0.00	20.45	1/18/2021, 8
1-HR	1ST	113.61362	ug/m^3	P_008	980097.18	3742616.83	20.12	0.00	20.12	1/18/2021, 8
1-HR	1ST	110.50554	ug/m^3	P_009	980097.18	3742636.83	20.39	0.00	20.39	1/18/2021, 8
1-HR	1ST	107.44244	ug/m^3	P_010	980097.18	3742656.83	20.78	0.00	20.78	1/18/2021, 8
1-HR	1ST	104.56924	ug/m^3	P_011	980097.18	3742676.83	20.96	0.00	20.96	1/18/2021, 8
1-HR	1ST	101.80386	ug/m^3	P_012	980097.18	3742696.83	20.96	0.00	20.96	1/18/2021, 8
1-HR	1ST	99.12139	ug/m^3	P_013	980097.18	3742716.83	20.69	0.00	20.69	1/18/2021, 8
1-HR	1ST	96.52469	ug/m^3	P_014	980097.18	3742736.83	20.55	0.00	20.55	1/18/2021, 8
1-HR	1ST	124.77973	ug/m^3	P_015	980117.18	3742636.83	20.48	0.00	20.48	1/18/2021, 8
1-HR	1ST	120.65113	ug/m^3	P_016	980117.18	3742656.83	20.83	0.00	20.83	1/18/2021, 8
1-HR	1ST	116.72569	ug/m^3	P_017	980117.18	3742676.83	21.00	0.00	21.00	1/18/2021, 8
1-HR	1ST	112.98842	ug/m^3	P_018	980117.18	3742696.83	20.97	0.00	20.97	1/18/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	109.44270	ug/m^3	P_019	980117.18	3742716.83	20.70	0.00	20.70	1/18/2021, 8
1-HR	1ST	106.04485	ug/m^3	P_020	980117.18	3742736.83	20.59	0.00	20.59	1/18/2021, 8
1-HR	1ST	131.19022	ug/m^3	P_021	980137.18	3742656.83	20.81	0.00	20.81	1/18/2021, 8
1-HR	1ST	126.19823	ug/m^3	P_022	980137.18	3742676.83	20.94	0.00	20.94	1/18/2021, 8
1-HR	1ST	121.54998	ug/m^3	P_023	980137.18	3742696.83	20.86	0.00	20.86	1/18/2021, 8
1-HR	1ST	117.16830	ug/m^3	P_024	980137.18	3742716.83	20.62	0.00	20.62	1/18/2021, 8
1-HR	1ST	113.02928	ug/m^3	P_025	980137.18	3742736.83	20.58	0.00	20.58	1/18/2021, 8
1-HR	1ST	126.11662	ug/m^3	P_026	980157.18	3742696.83	20.73	0.00	20.73	1/18/2021, 8
1-HR	1ST	121.11516	ug/m^3	P_027	980157.18	3742716.83	20.61	0.00	20.61	1/18/2021, 8
1-HR	1ST	120.40530	ug/m^3	P_028	980177.18	3742716.83	20.77	0.00	20.77	1/18/2021, 8
1-HR	1ST	82.21851	ug/m^3	S_001	980089.92	3741804.77	17.51	0.00	17.51	1/6/2021, 8
1-HR	1ST	88.54670	ug/m^3	S_002	980089.92	3741824.77	17.50	0.00	17.50	1/6/2021, 8
1-HR	1ST	95.65714	ug/m^3	S_003	980089.92	3741844.77	17.49	0.00	17.49	1/6/2021, 8
1-HR	1ST	103.73584	ug/m^3	S_004	980089.92	3741864.77	17.48	0.00	17.48	1/6/2021, 8
1-HR	1ST	112.91291	ug/m^3	S_005	980089.92	3741884.77	17.50	0.00	17.50	1/6/2021, 8
1-HR	1ST	123.43089	ug/m^3	S_006	980089.92	3741904.77	17.51	0.00	17.51	1/6/2021, 8
1-HR	1ST	135.59873	ug/m^3	S_007	980089.92	3741924.77	17.51	0.00	17.51	1/6/2021, 8
1-HR	1ST	149.63847	ug/m^3	S_008	980089.92	3741944.77	17.53	0.00	17.53	1/6/2021, 8
1-HR	1ST	165.96490	ug/m^3	S_009	980089.92	3741964.77	17.60	0.00	17.60	1/6/2021, 8
1-HR	1ST	191.12138	ug/m^3	S_010	980089.92	3741984.77	17.73	0.00	17.73	1/6/2021, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	221.85728	ug/m^3	S_011	980089.92	3742004.77	17.79	0.00	17.79	12/27/2019, 8
1-HR	1ST	274.02639	ug/m^3	S_012	980089.92	3742024.77	17.88	0.00	17.88	1/4/2022, 8
1-HR	1ST	84.45907	ug/m^3	S_013	980109.92	3741804.77	17.01	0.00	17.01	1/5/2022, 8
1-HR	1ST	90.45029	ug/m^3	S_014	980109.92	3741824.77	17.12	0.00	17.12	1/5/2022, 8
1-HR	1ST	97.27124	ug/m^3	S_015	980109.92	3741844.77	17.17	0.00	17.17	1/5/2022, 8
1-HR	1ST	104.94546	ug/m^3	S_016	980109.92	3741864.77	17.19	0.00	17.19	1/5/2022, 8
1-HR	1ST	113.77074	ug/m^3	S_017	980109.92	3741884.77	17.14	0.00	17.14	1/5/2022, 8
1-HR	1ST	123.88412	ug/m^3	S_018	980109.92	3741904.77	17.12	0.00	17.12	1/5/2022, 8
1-HR	1ST	135.71112	ug/m^3	S_019	980109.92	3741924.77	17.14	0.00	17.14	1/5/2022, 8
1-HR	1ST	149.61574	ug/m^3	S_020	980109.92	3741944.77	17.24	0.00	17.24	1/5/2022, 8
1-HR	1ST	166.13308	ug/m^3	S_021	980109.92	3741964.77	17.37	0.00	17.37	1/5/2022, 8
1-HR	1ST	185.99152	ug/m^3	S_022	980109.92	3741984.77	17.53	0.00	17.53	1/5/2022, 8
1-HR	1ST	211.33353	ug/m^3	S_023	980109.92	3742004.77	17.68	0.00	17.68	1/5/2022, 8
1-HR	1ST	250.78985	ug/m^3	S_024	980109.92	3742024.77	17.81	0.00	17.81	1/6/2021, 8
1-HR	1ST	80.26074	ug/m^3	S_025	980129.92	3741784.77	16.84	0.00	16.84	1/5/2022, 8
1-HR	1ST	85.70602	ug/m^3	S_026	980129.92	3741804.77	16.83	0.00	16.83	1/5/2022, 8
1-HR	1ST	91.81183	ug/m^3	S_027	980129.92	3741824.77	16.98	0.00	16.98	1/5/2022, 8
1-HR	1ST	98.69460	ug/m^3	S_028	980129.92	3741844.77	17.06	0.00	17.06	1/5/2022, 8
1-HR	1ST	106.46972	ug/m^3	S_029	980129.92	3741864.77	17.08	0.00	17.08	1/5/2022, 8
1-HR	1ST	115.25034	ug/m^3	S_030	980129.92	3741884.77	16.92	0.00	16.92	1/5/2022, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	125.35764	ug/m^3	S_031	980129.92	3741904.77	16.85	0.00	16.85	1/5/2022, 8
1-HR	1ST	137.01189	ug/m^3	S_032	980129.92	3741924.77	16.84	0.00	16.84	1/5/2022, 8
1-HR	1ST	150.63003	ug/m^3	S_033	980129.92	3741944.77	17.00	0.00	17.00	1/5/2022, 8
1-HR	1ST	166.59707	ug/m^3	S_034	980129.92	3741964.77	17.17	0.00	17.17	1/5/2022, 8
1-HR	1ST	185.95245	ug/m^3	S_035	980129.92	3741984.77	17.36	0.00	17.36	1/5/2022, 8
1-HR	1ST	211.06361	ug/m^3	S_036	980129.92	3742004.77	17.59	0.00	17.59	1/5/2022, 8
1-HR	1ST	243.45852	ug/m^3	S_037	980129.92	3742024.77	17.79	0.00	17.79	1/5/2022, 8
1-HR	1ST	74.92016	ug/m^3	S_038	980149.92	3741764.77	16.72	0.00	16.72	1/5/2022, 8
1-HR	1ST	79.73820	ug/m^3	S_039	980149.92	3741784.77	16.69	0.00	16.69	1/5/2022, 8
1-HR	1ST	85.07799	ug/m^3	S_040	980149.92	3741804.77	16.79	0.00	16.79	1/5/2022, 8
1-HR	1ST	91.07207	ug/m^3	S_041	980149.92	3741824.77	16.94	0.00	16.94	1/5/2022, 8
1-HR	1ST	97.76783	ug/m^3	S_042	980149.92	3741844.77	17.06	0.00	17.06	1/5/2022, 8
1-HR	1ST	105.34193	ug/m^3	S_043	980149.92	3741864.77	17.15	0.00	17.15	1/5/2022, 8
1-HR	1ST	113.86083	ug/m^3	S_044	980149.92	3741884.77	17.01	0.00	17.01	1/5/2022, 8
1-HR	1ST	123.50214	ug/m^3	S_045	980149.92	3741904.77	16.86	0.00	16.86	1/5/2022, 8
1-HR	1ST	134.50893	ug/m^3	S_046	980149.92	3741924.77	16.70	0.00	16.70	1/5/2022, 8
1-HR	1ST	147.34268	ug/m^3	S_047	980149.92	3741944.77	16.84	0.00	16.84	1/5/2022, 8
1-HR	1ST	162.43352	ug/m^3	S_048	980149.92	3741964.77	17.04	0.00	17.04	1/5/2022, 8
1-HR	1ST	181.75162	ug/m^3	S_049	980149.92	3741984.77	17.25	0.00	17.25	1/5/2022, 8
1-HR	1ST	205.95811	ug/m^3	S_050	980149.92	3742004.77	17.53	0.00	17.53	1/5/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	237.49632	ug/m^3	S_051	980149.92	3742024.77	17.79	0.00	17.79	1/5/2022, 8
1-HR	1ST	280.12437	ug/m^3	S_052	980149.92	3742044.77	17.92	0.00	17.92	1/5/2022, 8
1-HR	1ST	68.93812	ug/m^3	S_053	980169.92	3741744.77	16.64	0.00	16.64	1/5/2022, 8
1-HR	1ST	73.06848	ug/m^3	S_054	980169.92	3741764.77	16.56	0.00	16.56	1/5/2022, 8
1-HR	1ST	77.62949	ug/m^3	S_055	980169.92	3741784.77	16.62	0.00	16.62	1/5/2022, 8
1-HR	1ST	82.70558	ug/m^3	S_056	980169.92	3741804.77	16.78	0.00	16.78	1/5/2022, 8
1-HR	1ST	88.37905	ug/m^3	S_057	980169.92	3741824.77	16.89	0.00	16.89	1/5/2022, 8
1-HR	1ST	94.64710	ug/m^3	S_058	980169.92	3741844.77	16.99	0.00	16.99	1/5/2022, 8
1-HR	1ST	101.70219	ug/m^3	S_059	980169.92	3741864.77	17.09	0.00	17.09	1/5/2022, 8
1-HR	1ST	109.63486	ug/m^3	S_060	980169.92	3741884.77	17.08	0.00	17.08	1/5/2022, 8
1-HR	1ST	118.61503	ug/m^3	S_061	980169.92	3741904.77	17.05	0.00	17.05	1/5/2022, 8
1-HR	1ST	128.79683	ug/m^3	S_062	980169.92	3741924.77	16.98	0.00	16.98	1/5/2022, 8
1-HR	1ST	140.44166	ug/m^3	S_063	980169.92	3741944.77	16.98	0.00	16.98	1/5/2022, 8
1-HR	1ST	155.21296	ug/m^3	S_064	980169.92	3741964.77	17.02	0.00	17.02	1/5/2022, 8
1-HR	1ST	173.25202	ug/m^3	S_065	980169.92	3741984.77	17.17	0.00	17.17	1/5/2022, 8
1-HR	1ST	195.84994	ug/m^3	S_066	980169.92	3742004.77	17.45	0.00	17.45	1/5/2022, 8
1-HR	1ST	225.32821	ug/m^3	S_067	980169.92	3742024.77	17.74	0.00	17.74	1/5/2022, 8
1-HR	1ST	275.46541	ug/m^3	S_068	980169.92	3742044.77	17.96	0.00	17.96	12/19/2023, 8
1-HR	1ST	66.09803	ug/m^3	S_069	980189.92	3741744.77	16.36	0.00	16.36	1/5/2022, 8
1-HR	1ST	69.94029	ug/m^3	S_070	980189.92	3741764.77	16.46	0.00	16.46	1/5/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	74.14331	ug/m^3	S_071	980189.92	3741784.77	16.60	0.00	16.60	1/5/2022, 8
1-HR	1ST	78.77432	ug/m^3	S_072	980189.92	3741804.77	16.77	0.00	16.77	1/5/2022, 8
1-HR	1ST	83.90488	ug/m^3	S_073	980189.92	3741824.77	16.85	0.00	16.85	1/5/2022, 8
1-HR	1ST	89.62687	ug/m^3	S_074	980189.92	3741844.77	16.94	0.00	16.94	1/5/2022, 8
1-HR	1ST	95.98599	ug/m^3	S_075	980189.92	3741864.77	17.03	0.00	17.03	1/5/2022, 8
1-HR	1ST	103.11221	ug/m^3	S_076	980189.92	3741884.77	17.15	0.00	17.15	1/5/2022, 8
1-HR	1ST	111.13562	ug/m^3	S_077	980189.92	3741904.77	17.25	0.00	17.25	1/5/2022, 8
1-HR	1ST	120.21777	ug/m^3	S_078	980189.92	3741924.77	17.33	0.00	17.33	1/5/2022, 8
1-HR	1ST	131.34123	ug/m^3	S_079	980189.92	3741944.77	17.28	0.00	17.28	1/5/2022, 8
1-HR	1ST	144.64859	ug/m^3	S_080	980189.92	3741964.77	17.21	0.00	17.21	1/5/2022, 8
1-HR	1ST	161.50874	ug/m^3	S_081	980189.92	3741984.77	17.14	0.00	17.14	12/19/2023, 8
1-HR	1ST	191.86885	ug/m^3	S_082	980189.92	3742004.77	17.30	0.00	17.30	12/19/2023, 8
1-HR	1ST	229.29125	ug/m^3	S_083	980189.92	3742024.77	17.56	0.00	17.56	12/19/2023, 8
1-HR	1ST	277.28808	ug/m^3	S_084	980189.92	3742044.77	17.88	0.00	17.88	12/19/2023, 8
1-HR	1ST	59.15056	ug/m^3	S_085	980209.92	3741724.77	16.33	0.00	16.33	1/5/2022, 8
1-HR	1ST	62.26332	ug/m^3	S_086	980209.92	3741744.77	16.26	0.00	16.26	1/5/2022, 8
1-HR	1ST	65.70468	ug/m^3	S_087	980209.92	3741764.77	16.43	0.00	16.43	1/5/2022, 8
1-HR	1ST	69.43205	ug/m^3	S_088	980209.92	3741784.77	16.59	0.00	16.59	1/5/2022, 8
1-HR	1ST	73.53783	ug/m^3	S_089	980209.92	3741804.77	16.75	0.00	16.75	1/5/2022, 8
1-HR	1ST	78.06178	ug/m^3	S_090	980209.92	3741824.77	16.83	0.00	16.83	1/5/2022, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	83.06318	ug/m^3	S_091	980209.92	3741844.77	16.93	0.00	16.93	1/5/2022, 8
1-HR	1ST	88.56192	ug/m^3	S_092	980209.92	3741864.77	17.05	0.00	17.05	1/5/2022, 8
1-HR	1ST	94.74000	ug/m^3	S_093	980209.92	3741884.77	17.24	0.00	17.24	1/5/2022, 8
1-HR	1ST	101.65648	ug/m^3	S_094	980209.92	3741904.77	17.43	0.00	17.43	1/5/2022, 8
1-HR	1ST	109.94863	ug/m^3	S_095	980209.92	3741924.77	17.63	0.00	17.63	1/5/2022, 8
1-HR	1ST	124.97225	ug/m^3	S_096	980209.92	3741944.77	17.60	0.00	17.60	12/19/2023, 8
1-HR	1ST	145.58899	ug/m^3	S_097	980209.92	3741964.77	17.46	0.00	17.46	12/19/2023, 8
1-HR	1ST	169.67753	ug/m^3	S_098	980209.92	3741984.77	17.20	0.00	17.20	12/19/2023, 8
1-HR	1ST	198.29057	ug/m^3	S_099	980209.92	3742004.77	17.19	0.00	17.19	12/19/2023, 8
1-HR	1ST	232.90125	ug/m^3	S_100	980209.92	3742024.77	17.35	0.00	17.35	12/19/2023, 8
1-HR	1ST	276.46270	ug/m^3	S_101	980209.92	3742044.77	17.75	0.00	17.75	12/19/2023, 8
1-HR	1ST	333.80654	ug/m^3	S_102	980209.92	3742064.77	17.97	0.00	17.97	12/19/2023, 8
1-HR	1ST	52.43877	ug/m^3	S_103	980229.92	3741704.77	16.26	0.00	16.26	1/5/2022, 8
1-HR	1ST	54.92556	ug/m^3	S_104	980229.92	3741724.77	16.15	0.00	16.15	1/5/2022, 8
1-HR	1ST	57.96081	ug/m^3	S_105	980229.92	3741744.77	16.23	0.00	16.23	12/25/2020, 8
1-HR	1ST	61.34539	ug/m^3	S_106	980229.92	3741764.77	16.38	0.00	16.38	12/25/2020, 8
1-HR	1ST	64.99396	ug/m^3	S_107	980229.92	3741784.77	16.52	0.00	16.52	12/25/2020, 8
1-HR	1ST	68.99718	ug/m^3	S_108	980229.92	3741804.77	16.65	0.00	16.65	12/25/2020, 8
1-HR	1ST	73.39997	ug/m^3	S_109	980229.92	3741824.77	16.79	0.00	16.79	12/25/2020, 8
1-HR	1ST	78.24200	ug/m^3	S_110	980229.92	3741844.77	16.95	0.00	16.95	12/25/2020, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	83.59927	ug/m^3	S_111	980229.92	3741864.77	17.16	0.00	17.16	12/25/2020, 8
1-HR	1ST	90.11985	ug/m^3	S_112	980229.92	3741884.77	17.36	0.00	17.36	12/21/2020, 8
1-HR	1ST	101.04742	ug/m^3	S_113	980229.92	3741904.77	17.57	0.00	17.57	12/21/2020, 8
1-HR	1ST	115.71869	ug/m^3	S_114	980229.92	3741924.77	17.81	0.00	17.81	12/19/2023, 8
1-HR	1ST	133.09111	ug/m^3	S_115	980229.92	3741944.77	17.82	0.00	17.82	12/19/2023, 8
1-HR	1ST	152.98417	ug/m^3	S_116	980229.92	3741964.77	17.68	0.00	17.68	12/19/2023, 8
1-HR	1ST	175.83392	ug/m^3	S_117	980229.92	3741984.77	17.30	0.00	17.30	12/19/2023, 8
1-HR	1ST	202.41961	ug/m^3	S_118	980229.92	3742004.77	17.17	0.00	17.17	12/19/2023, 8
1-HR	1ST	233.90861	ug/m^3	S_119	980229.92	3742024.77	17.20	0.00	17.20	12/19/2023, 8
1-HR	1ST	272.39587	ug/m^3	S_120	980229.92	3742044.77	17.62	0.00	17.62	12/19/2023, 8
1-HR	1ST	320.46608	ug/m^3	S_121	980229.92	3742064.77	17.87	0.00	17.87	12/19/2023, 8
1-HR	1ST	50.89037	ug/m^3	S_122	980249.92	3741704.77	16.07	0.00	16.07	12/25/2020, 8
1-HR	1ST	53.48577	ug/m^3	S_123	980249.92	3741724.77	16.05	0.00	16.05	12/25/2020, 8
1-HR	1ST	56.29652	ug/m^3	S_124	980249.92	3741744.77	16.19	0.00	16.19	12/25/2020, 8
1-HR	1ST	59.32585	ug/m^3	S_125	980249.92	3741764.77	16.33	0.00	16.33	12/25/2020, 8
1-HR	1ST	62.60907	ug/m^3	S_126	980249.92	3741784.77	16.45	0.00	16.45	12/25/2020, 8
1-HR	1ST	66.17246	ug/m^3	S_127	980249.92	3741804.77	16.57	0.00	16.57	12/25/2020, 8
1-HR	1ST	70.03983	ug/m^3	S_128	980249.92	3741824.77	16.74	0.00	16.74	12/25/2020, 8
1-HR	1ST	76.91989	ug/m^3	S_129	980249.92	3741844.77	16.95	0.00	16.95	12/21/2020, 8
1-HR	1ST	85.35976	ug/m^3	S_130	980249.92	3741864.77	17.20	0.00	17.20	12/21/2020, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	94.79370	ug/m^3	S_131	980249.92	3741884.77	17.41	0.00	17.41	12/21/2020, 8
1-HR	1ST	107.85038	ug/m^3	S_132	980249.92	3741904.77	17.62	0.00	17.62	12/19/2023, 8
1-HR	1ST	122.71803	ug/m^3	S_133	980249.92	3741924.77	17.91	0.00	17.91	12/19/2023, 8
1-HR	1ST	139.47544	ug/m^3	S_134	980249.92	3741944.77	17.95	0.00	17.95	12/19/2023, 8
1-HR	1ST	158.39202	ug/m^3	S_135	980249.92	3741964.77	17.83	0.00	17.83	12/19/2023, 8
1-HR	1ST	179.69686	ug/m^3	S_136	980249.92	3741984.77	17.44	0.00	17.44	12/19/2023, 8
1-HR	1ST	204.01062	ug/m^3	S_137	980249.92	3742004.77	17.23	0.00	17.23	12/19/2023, 8
1-HR	1ST	232.02440	ug/m^3	S_138	980249.92	3742024.77	17.19	0.00	17.19	12/19/2023, 8
1-HR	1ST	265.23514	ug/m^3	S_139	980249.92	3742044.77	17.55	0.00	17.55	12/19/2023, 8
1-HR	1ST	305.02476	ug/m^3	S_140	980249.92	3742064.77	17.82	0.00	17.82	12/19/2023, 8
1-HR	1ST	354.24570	ug/m^3	S_141	980249.92	3742084.77	17.99	0.00	17.99	12/19/2023, 8
1-HR	1ST	46.97406	ug/m^3	S_142	980269.92	3741684.77	15.98	0.00	15.98	12/25/2020, 8
1-HR	1ST	49.14823	ug/m^3	S_143	980269.92	3741704.77	15.93	0.00	15.93	12/25/2020, 8
1-HR	1ST	51.44353	ug/m^3	S_144	980269.92	3741724.77	16.00	0.00	16.00	12/25/2020, 8
1-HR	1ST	53.93304	ug/m^3	S_145	980269.92	3741744.77	16.14	0.00	16.14	12/25/2020, 8
1-HR	1ST	56.59318	ug/m^3	S_146	980269.92	3741764.77	16.28	0.00	16.28	12/25/2020, 8
1-HR	1ST	60.70909	ug/m^3	S_147	980269.92	3741784.77	16.41	0.00	16.41	12/21/2020, 8
1-HR	1ST	66.75518	ug/m^3	S_148	980269.92	3741804.77	16.54	0.00	16.54	12/21/2020, 8
1-HR	1ST	73.43936	ug/m^3	S_149	980269.92	3741824.77	16.74	0.00	16.74	12/21/2020, 8
1-HR	1ST	80.84285	ug/m^3	S_150	980269.92	3741844.77	16.96	0.00	16.96	12/21/2020, 8

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	89.57550	ug/m^3	S_151	980269.92	3741864.77	17.20	0.00	17.20	12/19/2023, 8
1-HR	1ST	101.01273	ug/m^3	S_152	980269.92	3741884.77	17.42	0.00	17.42	12/19/2023, 8
1-HR	1ST	113.80868	ug/m^3	S_153	980269.92	3741904.77	17.65	0.00	17.65	12/19/2023, 8
1-HR	1ST	128.07891	ug/m^3	S_154	980269.92	3741924.77	17.83	0.00	17.83	12/19/2023, 8
1-HR	1ST	143.89700	ug/m^3	S_155	980269.92	3741944.77	17.87	0.00	17.87	12/19/2023, 8
1-HR	1ST	161.49833	ug/m^3	S_156	980269.92	3741964.77	17.81	0.00	17.81	12/19/2023, 8
1-HR	1ST	180.97992	ug/m^3	S_157	980269.92	3741984.77	17.53	0.00	17.53	12/19/2023, 8
1-HR	1ST	202.68820	ug/m^3	S_158	980269.92	3742004.77	17.37	0.00	17.37	12/19/2023, 8
1-HR	1ST	227.10939	ug/m^3	S_159	980269.92	3742024.77	17.32	0.00	17.32	12/19/2023, 8
1-HR	1ST	255.05702	ug/m^3	S_160	980269.92	3742044.77	17.57	0.00	17.57	12/19/2023, 8
1-HR	1ST	287.26270	ug/m^3	S_161	980269.92	3742064.77	17.80	0.00	17.80	12/19/2023, 8
1-HR	1ST	325.34149	ug/m^3	S_162	980269.92	3742084.77	18.02	0.00	18.02	12/19/2023, 8
1-HR	1ST	372.67843	ug/m^3	S_163	980269.92	3742104.77	18.10	0.00	18.10	12/19/2023, 8
1-HR	1ST	44.98298	ug/m^3	S_164	980289.92	3741684.77	15.88	0.00	19.14	12/25/2020, 8
1-HR	1ST	46.87071	ug/m^3	S_165	980289.92	3741704.77	15.82	0.00	15.82	12/25/2020, 8
1-HR	1ST	49.25679	ug/m^3	S_166	980289.92	3741724.77	15.94	0.00	15.94	12/21/2020, 8
1-HR	1ST	53.76404	ug/m^3	S_167	980289.92	3741744.77	16.09	0.00	16.09	12/21/2020, 8
1-HR	1ST	58.70904	ug/m^3	S_168	980289.92	3741764.77	16.24	0.00	16.24	12/21/2020, 8
1-HR	1ST	64.13324	ug/m^3	S_169	980289.92	3741784.77	16.40	0.00	16.40	12/21/2020, 8
1-HR	1ST	70.05121	ug/m^3	S_170	980289.92	3741804.77	16.58	0.00	16.58	12/21/2020, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	76.53716	ug/m^3	S_171	980289.92	3741824.77	16.80	0.00	16.80	12/21/2020, 8
1-HR	1ST	84.87915	ug/m^3	S_172	980289.92	3741844.77	17.02	0.00	17.02	12/19/2023, 8
1-HR	1ST	94.92075	ug/m^3	S_173	980289.92	3741864.77	17.23	0.00	17.23	12/19/2023, 8
1-HR	1ST	106.01275	ug/m^3	S_174	980289.92	3741884.77	17.46	0.00	17.46	12/19/2023, 8
1-HR	1ST	118.24660	ug/m^3	S_175	980289.92	3741904.77	17.66	0.00	17.66	12/19/2023, 8
1-HR	1ST	131.61835	ug/m^3	S_176	980289.92	3741924.77	17.71	0.00	17.71	12/19/2023, 8
1-HR	1ST	146.26140	ug/m^3	S_177	980289.92	3741944.77	17.76	0.00	17.76	12/19/2023, 8
1-HR	1ST	162.22544	ug/m^3	S_178	980289.92	3741964.77	17.80	0.00	17.80	12/19/2023, 8
1-HR	1ST	179.50862	ug/m^3	S_179	980289.92	3741984.77	17.62	0.00	17.62	12/19/2023, 8
1-HR	1ST	198.32547	ug/m^3	S_180	980289.92	3742004.77	17.48	0.00	17.48	12/19/2023, 8
1-HR	1ST	218.79451	ug/m^3	S_181	980289.92	3742024.77	17.36	0.00	17.36	12/19/2023, 8
1-HR	1ST	241.40988	ug/m^3	S_182	980289.92	3742044.77	17.56	0.00	17.56	12/19/2023, 8
1-HR	1ST	266.36257	ug/m^3	S_183	980289.92	3742064.77	17.78	0.00	17.78	12/19/2023, 8
1-HR	1ST	294.35429	ug/m^3	S_184	980289.92	3742084.77	18.02	0.00	18.02	12/19/2023, 8
1-HR	1ST	326.80043	ug/m^3	S_185	980289.92	3742104.77	18.15	0.00	18.15	12/19/2023, 8
1-HR	1ST	365.74301	ug/m^3	S_186	980289.92	3742124.77	18.24	0.00	18.24	12/19/2023, 8
1-HR	1ST	44.32795	ug/m^3	S_187	980309.92	3741684.77	15.84	0.00	15.84	12/21/2020, 8
1-HR	1ST	48.08066	ug/m^3	S_188	980309.92	3741704.77	15.78	0.00	15.78	12/21/2020, 8
1-HR	1ST	52.18602	ug/m^3	S_189	980309.92	3741724.77	15.91	0.00	15.91	12/21/2020, 8
1-HR	1ST	56.67235	ug/m^3	S_190	980309.92	3741744.77	16.07	0.00	16.07	12/21/2020, 8

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PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	61.50830	ug/m^3	S_191	980309.92	3741764.77	16.25	0.00	16.25	12/21/2020, 8
1-HR	1ST	66.76159	ug/m^3	S_192	980309.92	3741784.77	16.44	0.00	16.44	12/21/2020, 8
1-HR	1ST	72.46763	ug/m^3	S_193	980309.92	3741804.77	16.66	0.00	16.66	12/19/2023, 8
1-HR	1ST	80.53811	ug/m^3	S_194	980309.92	3741824.77	16.89	0.00	16.89	12/19/2023, 8
1-HR	1ST	89.40034	ug/m^3	S_195	980309.92	3741844.77	17.13	0.00	17.13	12/19/2023, 8
1-HR	1ST	99.07856	ug/m^3	S_196	980309.92	3741864.77	17.37	0.00	17.37	12/19/2023, 8
1-HR	1ST	109.62321	ug/m^3	S_197	980309.92	3741884.77	17.55	0.00	17.55	12/19/2023, 8
1-HR	1ST	121.03365	ug/m^3	S_198	980309.92	3741904.77	17.68	0.00	17.68	12/19/2023, 8
1-HR	1ST	133.27306	ug/m^3	S_199	980309.92	3741924.77	17.67	0.00	17.67	12/19/2023, 8
1-HR	1ST	146.44760	ug/m^3	S_200	980309.92	3741944.77	17.76	0.00	17.76	12/19/2023, 8
1-HR	1ST	160.52389	ug/m^3	S_201	980309.92	3741964.77	17.93	0.00	17.93	12/19/2023, 8
1-HR	1ST	175.34539	ug/m^3	S_202	980309.92	3741984.77	17.75	0.00	17.75	12/19/2023, 8
1-HR	1ST	190.94067	ug/m^3	S_203	980309.92	3742004.77	17.56	0.00	17.56	12/19/2023, 8
1-HR	1ST	207.29945	ug/m^3	S_204	980309.92	3742024.77	17.38	0.00	17.38	12/19/2023, 8
1-HR	1ST	224.52150	ug/m^3	S_205	980309.92	3742044.77	17.53	0.00	17.53	12/19/2023, 8
1-HR	1ST	242.47514	ug/m^3	S_206	980309.92	3742064.77	17.73	0.00	17.73	12/19/2023, 8
1-HR	1ST	261.09664	ug/m^3	S_207	980309.92	3742084.77	17.96	0.00	17.96	12/19/2023, 8
1-HR	1ST	280.45634	ug/m^3	S_208	980309.92	3742104.77	18.13	0.00	18.13	12/19/2023, 8
1-HR	1ST	300.02841	ug/m^3	S_209	980309.92	3742124.77	18.25	0.00	18.25	12/19/2023, 8
1-HR	1ST	317.67787	ug/m^3	S_210	980309.92	3742144.77	18.25	0.00	18.25	12/19/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	46.83930	ug/m^3	S_211	980329.92	3741684.77	16.06	0.00	16.06	12/21/2020, 8
1-HR	1ST	50.55605	ug/m^3	S_212	980329.92	3741704.77	16.00	0.00	16.00	12/21/2020, 8
1-HR	1ST	54.59441	ug/m^3	S_213	980329.92	3741724.77	16.05	0.00	16.05	12/21/2020, 8
1-HR	1ST	58.90987	ug/m^3	S_214	980329.92	3741744.77	16.15	0.00	16.15	12/21/2020, 8
1-HR	1ST	63.58543	ug/m^3	S_215	980329.92	3741764.77	16.32	0.00	16.32	12/21/2020, 8
1-HR	1ST	69.29773	ug/m^3	S_216	980329.92	3741784.77	16.51	0.00	16.51	12/19/2023, 8
1-HR	1ST	76.49691	ug/m^3	S_217	980329.92	3741804.77	16.74	0.00	16.74	12/19/2023, 8
1-HR	1ST	84.36248	ug/m^3	S_218	980329.92	3741824.77	17.00	0.00	17.00	12/19/2023, 8
1-HR	1ST	92.83889	ug/m^3	S_219	980329.92	3741844.77	17.28	0.00	17.28	12/19/2023, 8
1-HR	1ST	101.97526	ug/m^3	S_220	980329.92	3741864.77	17.57	0.00	17.57	12/19/2023, 8
1-HR	1ST	111.74253	ug/m^3	S_221	980329.92	3741884.77	17.75	0.00	17.75	12/19/2023, 8
1-HR	1ST	122.11225	ug/m^3	S_222	980329.92	3741904.77	17.84	0.00	17.84	12/19/2023, 8
1-HR	1ST	133.05626	ug/m^3	S_223	980329.92	3741924.77	17.88	0.00	17.88	12/19/2023, 8
1-HR	1ST	144.56838	ug/m^3	S_224	980329.92	3741944.77	18.03	0.00	18.03	12/19/2023, 8
1-HR	1ST	156.52610	ug/m^3	S_225	980329.92	3741964.77	18.30	0.00	18.30	12/19/2023, 8
1-HR	1ST	168.63275	ug/m^3	S_226	980329.92	3741984.77	17.94	0.00	17.94	12/19/2023, 8
1-HR	1ST	180.87604	ug/m^3	S_227	980329.92	3742004.77	17.62	0.00	17.62	12/19/2023, 8
1-HR	1ST	193.10299	ug/m^3	S_228	980329.92	3742024.77	17.39	0.00	17.39	12/19/2023, 8
1-HR	1ST	205.11078	ug/m^3	S_229	980329.92	3742044.77	17.47	0.00	17.47	12/19/2023, 8
1-HR	1ST	216.51956	ug/m^3	S_230	980329.92	3742064.77	17.64	0.00	17.64	12/19/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	226.85259	ug/m^3	S_231	980329.92	3742084.77	17.88	0.00	17.88	12/19/2023, 8
1-HR	1ST	235.21139	ug/m^3	S_232	980329.92	3742104.77	18.07	0.00	18.07	12/19/2023, 8
1-HR	1ST	240.37078	ug/m^3	S_233	980329.92	3742124.77	18.21	0.00	18.21	12/19/2023, 8
1-HR	1ST	265.29817	ug/m^3	S_234	980329.92	3742144.77	18.22	0.00	18.22	12/21/2021, 8
1-HR	1ST	294.38981	ug/m^3	S_235	980329.92	3742164.77	18.20	0.00	18.20	12/21/2021, 8
1-HR	1ST	60.51826	ug/m^3	S_236	980349.92	3741744.77	16.24	0.00	16.24	12/21/2020, 8
1-HR	1ST	66.29740	ug/m^3	S_237	980349.92	3741764.77	16.37	0.00	16.37	12/19/2023, 8
1-HR	1ST	72.74127	ug/m^3	S_238	980349.92	3741784.77	16.56	0.00	16.56	12/19/2023, 8
1-HR	1ST	79.71729	ug/m^3	S_239	980349.92	3741804.77	16.80	0.00	16.80	12/19/2023, 8
1-HR	1ST	87.14558	ug/m^3	S_240	980349.92	3741824.77	17.05	0.00	17.05	12/19/2023, 8
1-HR	1ST	95.10800	ug/m^3	S_241	980349.92	3741844.77	17.32	0.00	17.32	12/19/2023, 8
1-HR	1ST	103.51336	ug/m^3	S_242	980349.92	3741864.77	17.60	0.00	17.60	12/19/2023, 8
1-HR	1ST	112.33453	ug/m^3	S_243	980349.92	3741884.77	17.79	0.00	17.79	12/19/2023, 8
1-HR	1ST	121.53833	ug/m^3	S_244	980349.92	3741904.77	17.90	0.00	17.90	12/19/2023, 8
1-HR	1ST	130.97479	ug/m^3	S_245	980349.92	3741924.77	17.84	0.00	17.84	12/19/2023, 8
1-HR	1ST	140.55587	ug/m^3	S_246	980349.92	3741944.77	17.81	0.00	17.81	12/19/2023, 8
1-HR	1ST	150.20464	ug/m^3	S_247	980349.92	3741964.77	17.84	0.00	17.84	12/19/2023, 8
1-HR	1ST	159.66452	ug/m^3	S_248	980349.92	3741984.77	17.73	0.00	17.73	12/19/2023, 8
1-HR	1ST	168.69764	ug/m^3	S_249	980349.92	3742004.77	17.58	0.00	17.58	12/19/2023, 8
1-HR	1ST	176.94935	ug/m^3	S_250	980349.92	3742024.77	17.33	0.00	17.33	12/19/2023, 8

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Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	184.17261	ug/m^3	S_251	980349.92	3742044.77	17.37	0.00	17.37	12/19/2023, 8
1-HR	1ST	189.84415	ug/m^3	S_252	980349.92	3742064.77	17.53	0.00	17.53	12/19/2023, 8
1-HR	1ST	193.32549	ug/m^3	S_253	980349.92	3742084.77	17.81	0.00	17.81	12/19/2023, 8
1-HR	1ST	193.48275	ug/m^3	S_254	980349.92	3742104.77	17.98	0.00	17.98	12/19/2023, 8
1-HR	1ST	211.38405	ug/m^3	S_255	980349.92	3742124.77	18.10	0.00	18.10	12/21/2021, 8
1-HR	1ST	233.17757	ug/m^3	S_256	980349.92	3742144.77	18.16	0.00	18.16	12/21/2021, 8
1-HR	1ST	247.56394	ug/m^3	S_257	980349.92	3742164.77	18.18	0.00	18.18	12/21/2021, 8
1-HR	1ST	88.91057	ug/m^3	S_258	980369.92	3741824.77	17.01	0.00	17.01	12/19/2023, 8
1-HR	1ST	96.16583	ug/m^3	S_259	980369.92	3741844.77	17.24	0.00	17.24	12/19/2023, 8
1-HR	1ST	103.71289	ug/m^3	S_260	980369.92	3741864.77	17.49	0.00	17.49	12/19/2023, 8
1-HR	1ST	111.48192	ug/m^3	S_261	980369.92	3741884.77	17.68	0.00	17.68	12/19/2023, 8
1-HR	1ST	119.35738	ug/m^3	S_262	980369.92	3741904.77	17.82	0.00	17.82	12/19/2023, 8
1-HR	1ST	127.19445	ug/m^3	S_263	980369.92	3741924.77	17.71	0.00	17.71	12/19/2023, 8
1-HR	1ST	134.87689	ug/m^3	S_264	980369.92	3741944.77	17.60	0.00	17.60	12/19/2023, 8
1-HR	1ST	142.25106	ug/m^3	S_265	980369.92	3741964.77	17.52	0.00	17.52	12/19/2023, 8
1-HR	1ST	149.04988	ug/m^3	S_266	980369.92	3741984.77	17.46	0.00	17.46	12/19/2023, 8
1-HR	1ST	154.99339	ug/m^3	S_267	980369.92	3742004.77	17.39	0.00	17.39	12/19/2023, 8
1-HR	1ST	159.70841	ug/m^3	S_268	980369.92	3742024.77	17.26	0.00	17.26	12/19/2023, 8
1-HR	1ST	162.85260	ug/m^3	S_269	980369.92	3742044.77	17.32	0.00	17.32	12/19/2023, 8
1-HR	1ST	163.88487	ug/m^3	S_270	980369.92	3742064.77	17.47	0.00	17.47	12/19/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	162.15355	ug/m^3	S_271	980369.92	3742084.77	17.75	0.00	17.75	12/19/2023, 8
1-HR	1ST	173.46092	ug/m^3	S_272	980369.92	3742104.77	17.92	0.00	17.92	12/21/2021, 8
1-HR	1ST	191.38407	ug/m^3	S_273	980369.92	3742124.77	18.02	0.00	18.02	12/21/2021, 8
1-HR	1ST	204.50199	ug/m^3	S_274	980369.92	3742144.77	18.07	0.00	18.07	12/21/2021, 8
1-HR	1ST	109.27821	ug/m^3	S_275	980389.92	3741884.77	17.46	0.00	17.46	12/19/2023, 8
1-HR	1ST	115.77772	ug/m^3	S_276	980389.92	3741904.77	17.62	0.00	17.62	12/19/2023, 8
1-HR	1ST	122.01284	ug/m^3	S_277	980389.92	3741924.77	17.52	0.00	17.52	12/19/2023, 8
1-HR	1ST	127.78252	ug/m^3	S_278	980389.92	3741944.77	17.34	0.00	17.34	12/19/2023, 8
1-HR	1ST	132.94606	ug/m^3	S_279	980389.92	3741964.77	17.07	0.00	17.07	12/19/2023, 8
1-HR	1ST	137.28197	ug/m^3	S_280	980389.92	3741984.77	17.06	0.00	17.06	12/19/2023, 8
1-HR	1ST	140.48878	ug/m^3	S_281	980389.92	3742004.77	17.13	0.00	17.13	12/19/2023, 8
1-HR	1ST	142.19681	ug/m^3	S_282	980389.92	3742024.77	17.14	0.00	17.14	12/19/2023, 8
1-HR	1ST	142.07918	ug/m^3	S_283	980389.92	3742044.77	17.26	0.00	17.26	12/19/2023, 8
1-HR	1ST	139.59666	ug/m^3	S_284	980389.92	3742064.77	17.43	0.00	17.43	12/19/2023, 8
1-HR	1ST	145.02543	ug/m^3	S_285	980389.92	3742084.77	17.71	0.00	17.71	12/21/2021, 8
1-HR	1ST	160.45493	ug/m^3	S_286	980389.92	3742104.77	17.88	0.00	17.88	12/21/2021, 8
1-HR	1ST	172.81120	ug/m^3	S_287	980389.92	3742124.77	17.96	0.00	17.96	12/21/2021, 8
1-HR	1ST	119.68631	ug/m^3	S_288	980409.92	3741944.77	17.05	0.00	17.05	12/19/2023, 8
1-HR	1ST	122.80222	ug/m^3	S_289	980409.92	3741964.77	16.48	0.00	16.48	12/19/2023, 8
1-HR	1ST	124.97692	ug/m^3	S_290	980409.92	3741984.77	16.56	0.00	16.56	12/19/2023, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	125.87287	ug/m^3	S_291	980409.92	3742004.77	16.85	0.00	16.85	12/19/2023, 8
1-HR	1ST	125.14948	ug/m^3	S_292	980409.92	3742024.77	16.99	0.00	16.99	12/19/2023, 8
1-HR	1ST	122.52641	ug/m^3	S_293	980409.92	3742044.77	17.19	0.00	17.19	12/19/2023, 8
1-HR	1ST	122.78988	ug/m^3	S_294	980409.92	3742064.77	17.43	0.00	17.43	12/21/2021, 8
1-HR	1ST	136.35242	ug/m^3	S_295	980409.92	3742084.77	17.69	0.00	17.69	12/21/2021, 8
1-HR	1ST	147.93277	ug/m^3	S_296	980409.92	3742104.77	17.82	0.00	17.82	12/21/2021, 8
1-HR	1ST	155.95344	ug/m^3	S_297	980409.92	3742124.77	17.86	0.00	17.86	12/21/2021, 8
1-HR	1ST	112.33294	ug/m^3	S_298	980429.92	3741964.77	16.39	0.00	16.39	12/19/2023, 8
1-HR	1ST	112.63510	ug/m^3	S_299	980429.92	3741984.77	16.38	0.00	16.38	12/19/2023, 8
1-HR	1ST	111.62408	ug/m^3	S_300	980429.92	3742004.77	16.60	0.00	16.60	12/19/2023, 8
1-HR	1ST	109.03945	ug/m^3	S_301	980429.92	3742024.77	16.84	0.00	16.84	12/19/2023, 8
1-HR	1ST	104.99676	ug/m^3	S_302	980429.92	3742044.77	17.14	0.00	17.14	12/21/2021, 8
1-HR	1ST	117.00890	ug/m^3	S_303	980429.92	3742064.77	17.46	0.00	17.46	12/21/2021, 8
1-HR	1ST	127.74781	ug/m^3	S_304	980429.92	3742084.77	17.66	0.00	17.66	12/21/2021, 8
1-HR	1ST	136.13196	ug/m^3	S_305	980429.92	3742104.77	17.75	0.00	17.75	12/21/2021, 8
1-HR	1ST	98.18266	ug/m^3	S_306	980449.92	3742004.77	16.68	0.00	16.68	12/19/2023, 8
1-HR	1ST	94.27064	ug/m^3	S_307	980449.92	3742024.77	16.90	0.00	16.90	12/19/2023, 8
1-HR	1ST	101.15955	ug/m^3	S_308	980449.92	3742044.77	17.15	0.00	17.15	12/21/2021, 8
1-HR	1ST	111.07791	ug/m^3	S_309	980449.92	3742064.77	17.44	0.00	17.44	12/21/2021, 8
1-HR	1ST	119.35070	ug/m^3	S_310	980449.92	3742084.77	17.53	0.00	17.53	12/21/2021, 8

Sensitive Receptor Summary

Tustin District Office Project
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	87.98139	ug/m^3	S_311	980469.92	3742024.77	16.97	0.00	16.97	12/21/2021, 8
1-HR	1ST	97.03648	ug/m^3	S_312	980469.92	3742044.77	17.17	0.00	17.17	12/21/2021, 8
1-HR	1ST	105.08034	ug/m^3	S_313	980469.92	3742064.77	17.36	0.00	17.36	12/21/2021, 8
1-HR	1ST	111.38980	ug/m^3	S_314	980469.92	3742084.77	17.43	0.00	17.43	12/21/2021, 8
1-HR	1ST	92.78065	ug/m^3	S_315	980489.92	3742044.77	17.16	0.00	17.16	12/21/2021, 8
1-HR	1ST	99.21498	ug/m^3	S_316	980489.92	3742064.77	17.28	0.00	17.28	12/21/2021, 8
1-HR	1ST	172.54873	ug/m^3	W_001	980404.60	3742206.17	18.79	0.00	18.79	12/11/2023, 8
1-HR	1ST	191.12683	ug/m^3	W_002	980395.70	3742240.27	18.75	0.00	18.75	12/16/2019, 8
1-HR	1ST	91.71803	ug/m^3	W_003	980504.67	3742161.69	18.52	0.00	18.52	12/14/2023, 8
1-HR	1ST	141.03592	ug/m^3	W_004	980443.89	3742297.35	19.09	0.00	19.09	12/16/2019, 8
1-HR	1ST	92.72032	ug/m^3	W_005	980480.95	3742379.63	18.99	0.00	18.99	12/16/2019, 8
1-HR	1ST	96.16833	ug/m^3	W_006	980519.50	3742227.67	18.81	0.00	18.81	12/11/2023, 8
1-HR	1ST	86.73175	ug/m^3	W_007	980546.18	3742255.09	19.11	0.00	19.11	12/11/2023, 8
1-HR	1ST	85.54042	ug/m^3	W_008	980555.82	3742291.42	19.22	0.00	19.22	12/16/2019, 8
1-HR	1ST	80.11422	ug/m^3	W_009	980578.06	3742308.47	19.33	0.00	19.33	12/16/2019, 8
1-HR	1ST	75.15626	ug/m^3	W_010	980601.04	3742345.53	19.42	0.00	19.42	12/16/2019, 8
1-HR	1ST	68.80004	ug/m^3	W_011	980500.96	3742427.81	19.03	0.00	19.03	12/16/2019, 8
1-HR	1ST	58.94067	ug/m^3	W_012	980518.78	3742452.39	19.29	0.00	19.29	12/16/2019, 8
1-HR	1ST	68.78391	ug/m^3	W_013	980625.18	3742376.52	19.47	0.00	19.47	12/16/2019, 8
1-HR	1ST	62.52832	ug/m^3	W_014	980640.01	3742414.89	19.45	0.00	19.45	12/16/2019, 8

Sensitive Receptor Summary

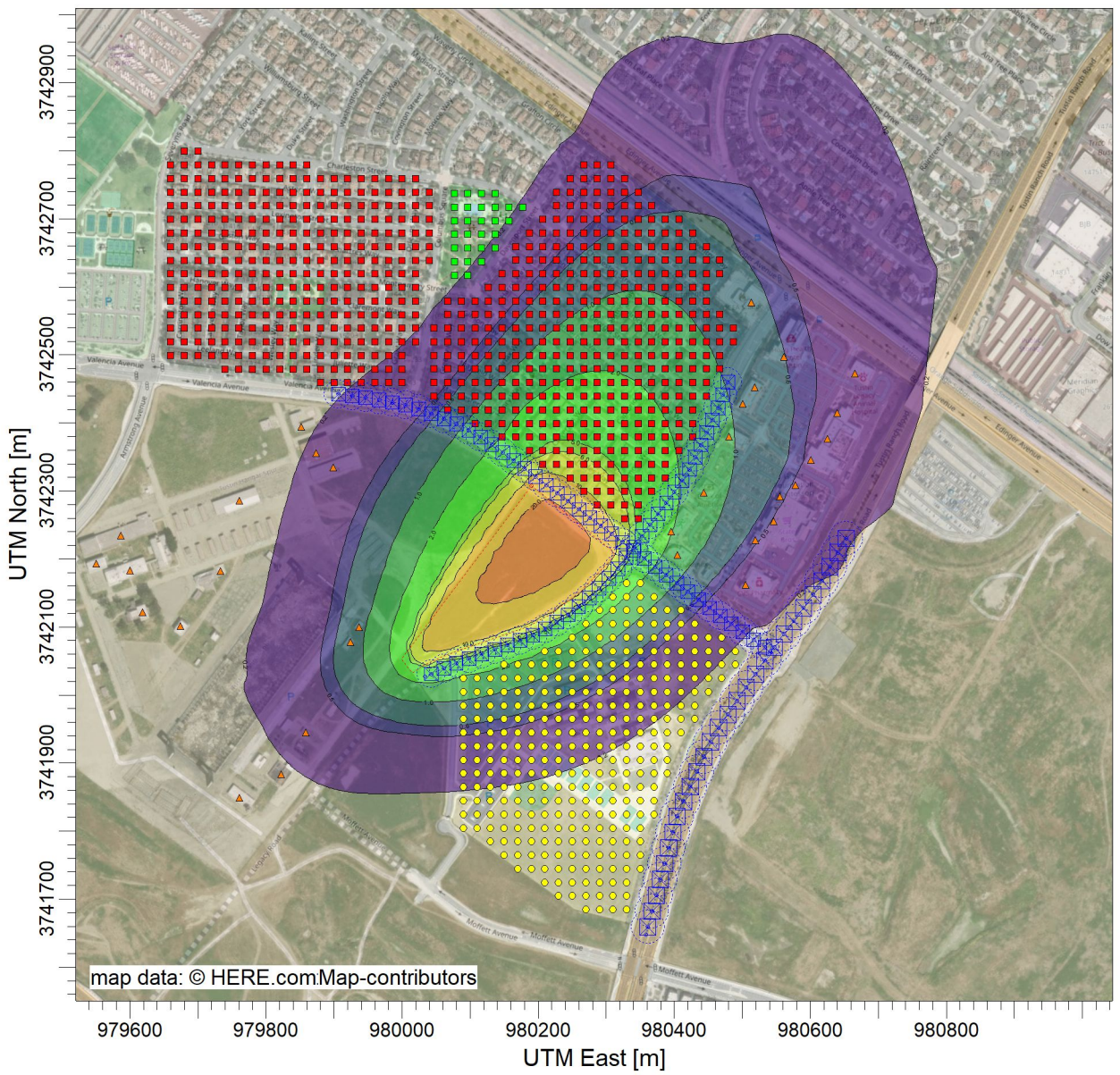
Tustin District Office Project
Construction Health Risk Assessment

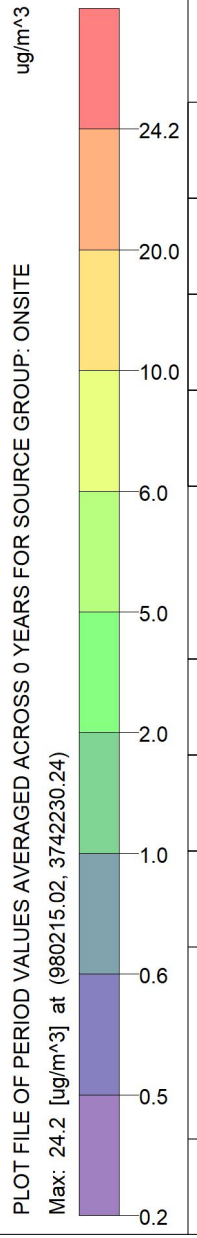
PM2.5 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	45.56785	ug/m^3	W_015	980561.52	3742496.87	19.93	0.00	19.93	12/16/2019, 8
1-HR	1ST	51.42195	ug/m^3	W_016	980665.30	3742472.45	19.69	0.00	19.69	12/16/2019, 8
1-HR	1ST	74.29732	ug/m^3	W_017	980513.48	3742577.06	19.19	0.00	19.19	1/11/2022, 8
1-HR	1ST	117.16629	ug/m^3	W_018	979899.40	3742334.47	19.24	0.00	19.24	1/17/2023, 8
1-HR	1ST	333.21026	ug/m^3	W_019	979936.77	3742099.68	17.99	0.00	17.99	12/23/2022, 8
1-HR	1ST	77.58367	ug/m^3	W_020	979761.24	3742285.82	19.04	0.00	19.04	12/1/2020, 8
1-HR	1ST	142.98452	ug/m^3	W_021	979733.51	3742181.86	18.30	0.00	18.30	12/11/2020, 8
1-HR	1ST	332.28985	ug/m^3	W_022	979924.14	3742077.70	17.92	0.00	17.92	12/23/2022, 8
1-HR	1ST	118.21631	ug/m^3	W_023	979822.04	3741883.42	17.43	0.00	17.43	1/4/2021, 8
1-HR	1ST	146.62188	ug/m^3	W_024	979674.08	3742101.64	18.09	0.00	18.09	12/23/2022, 8
1-HR	1ST	104.32324	ug/m^3	W_025	979851.61	3742394.38	19.48	0.00	19.48	1/17/2023, 8
1-HR	1ST	108.15023	ug/m^3	W_026	979873.78	3742356.02	19.42	0.00	19.42	1/17/2023, 8
1-HR	1ST	84.04515	ug/m^3	W_027	979586.82	3742234.43	19.12	0.00	19.12	12/11/2020, 8
1-HR	1ST	109.71567	ug/m^3	W_028	979600.20	3742183.36	18.86	0.00	18.86	12/11/2020, 8
1-HR	1ST	97.62006	ug/m^3	W_029	979550.35	3742193.09	18.98	0.00	18.98	12/11/2020, 8
1-HR	1ST	124.99842	ug/m^3	W_030	979618.44	3742121.35	18.69	0.00	18.69	12/23/2022, 8
1-HR	1ST	187.35868	ug/m^3	W_031	979858.81	3741944.73	17.56	0.00	17.56	1/2/2019, 8
1-HR	1ST	95.38094	ug/m^3	W_032	979760.89	3741849.21	17.63	0.00	17.63	1/2/2019, 8

PROJECT TITLE:

Tustin District Office Project
Construction Health Risk Assessment - Onsite Source Concentrations





COMMENTS:

SOURCES:
4

RECEPTORS:
2844

OUTPUT TYPE:
Concentration

MAX:
24.2 ug/m^3

COMPANY NAME:

MODELER:

DATE:
9/18/2025

SCALE: 1:9,936
0 0.3 km

PROJECT NO.:

AERMOD View - Lakes Environmental Software

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ATTACHMENT C

HEALTH RISK ASSESSMENT RISK CALCULATIONS

Construction Heath Risk Assessment HARP Inputs

Project Construction

Input Parameter	Receptor Type			
	Resident	**Park Visitor**	**Middle Student**	**Worker**
Analysis Type	Cancer Risk	Cancer Risk	Cancer Risk	Cancer Risk
Receptor Type	Individual Resident	Individual Resident	Individual Resident	Worker
Exposure Duration	2 Years	2 Years	2 Years	2 Years
Start Age	3rd Trimester	3rd Trimester	Age 11	Age 16
Intake Rate Percentile	OEHHA Derived Method	OEHHA Derived Method	OEHHA Derived Method	OEHHA Derived Method
Pathways to Evaluate	Mandatory	Mandatory	Mandatory	Worker Pathways
Inhalation Pathway				
Fraction of Time at Home	Applied	Applied	Not Applied	Not Applied
Adjustments for Worker and/or 8-Hour Chronic R	Not Applied	Applied; Exposure Frequency 180	Applied; Exposure Frequency 180	Applied; Exposure Frequency 250
Advanced Option (Tier 2)	Applied	NA	NA	NA
Soil Pathway				
Advanced Option (Tier 2)	Applied	Applied	Applied	Applied
Dermal Pathway				
Advanced Option (Tier 2)	Applied; Mixed Climate	Applied; Mixed Climate	Applied; Mixed Climate	Applied; Mixed Climate
Mother's Milk Pathway				
Advanced Option (Tier 2)	Applied	Applied	Applied	NA

Construction Risk Summary - Maximum Impacted Receptors

UTM: X	UTM: Y	Receptor ID	Maximum Concentration (ug/m3)	Hazard Index	Risk per Million
980287.3212	3742278.937	RES_484	1.90E-02	0.00	5.54
980137.176	3742656.828	P_021	4.73E-04	0.00	0.08
980329.9238	3742164.774	S_235	4.92E-03	0.00	0.12
980395.7	3742240.27	W_002	3.64E-03	0.00	0.02

Construction Risk Summary - All Receptors

					Unmitigated Construction				
UTM: X	UTM: Y	Receptor ID	Maximum Concentration (ug/m3)	Hazard Index	Risk per Million	Middle School Student Receptors	Park Receptors	Residential Receptors	Worker Receptors
979660.2989	3742498.808	RES_001	1.61E-04	0.00	0.05			4.68E-08	
979660.2989	3742518.808	RES_002	1.57E-04	0.00	0.05			4.56E-08	
979660.2989	3742538.808	RES_003	1.52E-04	0.00	0.04			4.43E-08	
979660.2989	3742558.808	RES_004	1.48E-04	0.00	0.04			4.29E-08	
979660.2989	3742578.808	RES_005	1.42E-04	0.00	0.04			4.14E-08	
979660.2989	3742598.808	RES_006	1.37E-04	0.00	0.04			3.98E-08	
979660.2989	3742618.808	RES_007	1.31E-04	0.00	0.04			3.82E-08	
979660.2989	3742638.808	RES_008	1.25E-04	0.00	0.04			3.65E-08	
979660.2989	3742658.808	RES_009	1.20E-04	0.00	0.03			3.48E-08	
979660.2989	3742678.808	RES_010	1.14E-04	0.00	0.03			3.32E-08	
979660.2989	3742698.808	RES_011	1.09E-04	0.00	0.03			3.16E-08	
979660.2989	3742718.808	RES_012	1.03E-04	0.00	0.03			3.00E-08	
979660.2989	3742738.808	RES_013	9.81E-05	0.00	0.03			2.85E-08	
979660.2989	3742758.808	RES_014	9.33E-05	0.00	0.03			2.71E-08	
979660.2989	3742778.808	RES_015	8.89E-05	0.00	0.03			2.58E-08	
979680.2989	3742498.808	RES_016	1.71E-04	0.00	0.05			4.97E-08	
979680.2989	3742518.808	RES_017	1.66E-04	0.00	0.05			4.83E-08	
979680.2989	3742538.808	RES_018	1.61E-04	0.00	0.05			4.67E-08	
979680.2989	3742558.808	RES_019	1.55E-04	0.00	0.05			4.50E-08	
979680.2989	3742578.808	RES_020	1.49E-04	0.00	0.04			4.33E-08	
979680.2989	3742598.808	RES_021	1.43E-04	0.00	0.04			4.15E-08	
979680.2989	3742618.808	RES_022	1.36E-04	0.00	0.04			3.96E-08	
979680.2989	3742638.808	RES_023	1.30E-04	0.00	0.04			3.78E-08	
979680.2989	3742658.808	RES_024	1.23E-04	0.00	0.04			3.59E-08	
979680.2989	3742678.808	RES_025	1.17E-04	0.00	0.03			3.41E-08	
979680.2989	3742698.808	RES_026	1.12E-04	0.00	0.03			3.24E-08	
979680.2989	3742718.808	RES_027	1.06E-04	0.00	0.03			3.08E-08	
979680.2989	3742738.808	RES_028	1.00E-04	0.00	0.03			2.92E-08	
979680.2989	3742758.808	RES_029	9.53E-05	0.00	0.03			2.77E-08	
979680.2989	3742778.808	RES_030	9.08E-05	0.00	0.03			2.64E-08	
979680.2989	3742798.808	RES_031	8.66E-05	0.00	0.03			2.52E-08	
979700.2989	3742498.808	RES_032	1.81E-04	0.00	0.05			5.28E-08	
979700.2989	3742518.808	RES_033	1.75E-04	0.00	0.05			5.10E-08	
979700.2989	3742538.808	RES_034	1.69E-04	0.00	0.05			4.92E-08	
979700.2989	3742558.808	RES_035	1.62E-04	0.00	0.05			4.72E-08	
979700.2989	3742578.808	RES_036	1.55E-04	0.00	0.05			4.52E-08	
979700.2989	3742598.808	RES_037	1.48E-04	0.00	0.04			4.32E-08	
979700.2989	3742618.808	RES_038	1.41E-04	0.00	0.04			4.11E-08	
979700.2989	3742638.808	RES_039	1.34E-04	0.00	0.04			3.90E-08	
979700.2989	3742658.808	RES_040	1.27E-04	0.00	0.04			3.70E-08	
979700.2989	3742678.808	RES_041	1.21E-04	0.00	0.04			3.51E-08	
979700.2989	3742698.808	RES_042	1.14E-04	0.00	0.03			3.33E-08	
979700.2989	3742718.808	RES_043	1.08E-04	0.00	0.03			3.15E-08	
979700.2989	3742738.808	RES_044	1.03E-04	0.00	0.03			2.98E-08	
979700.2989	3742758.808	RES_045	9.76E-05	0.00	0.03			2.84E-08	
979700.2989	3742778.808	RES_046	9.29E-05	0.00	0.03			2.70E-08	
979700.2989	3742798.808	RES_047	8.85E-05	0.00	0.03			2.57E-08	
979720.2989	3742498.808	RES_048	1.93E-04	0.00	0.06			5.60E-08	
979720.2989	3742518.808	RES_049	1.85E-04	0.00	0.05			5.39E-08	
979720.2989	3742538.808	RES_050	1.78E-04	0.00	0.05			5.18E-08	
979720.2989	3742558.808	RES_051	1.70E-04	0.00	0.05			4.95E-08	
979720.2989	3742578.808	RES_052	1.62E-04	0.00	0.05			4.72E-08	
979720.2989	3742598.808	RES_053	1.54E-04	0.00	0.04			4.49E-08	
979720.2989	3742618.808	RES_054	1.47E-04	0.00	0.04			4.26E-08	
979720.2989	3742638.808	RES_055	1.39E-04	0.00	0.04			4.03E-08	
979720.2989	3742658.808	RES_056	1.31E-04	0.00	0.04			3.82E-08	
979720.2989	3742678.808	RES_057	1.24E-04	0.00	0.04			3.61E-08	
979720.2989	3742698.808	RES_058	1.18E-04	0.00	0.03			3.42E-08	
979720.2989	3742718.808	RES_059	1.11E-04	0.00	0.03			3.23E-08	
979720.2989	3742738.808	RES_060	1.05E-04	0.00	0.03			3.06E-08	

979720.2989	3742758.808	RES_061	9.99E-05	0.00	0.03	2.91E-08
979720.2989	3742778.808	RES_062	9.51E-05	0.00	0.03	2.76E-08
979740.2989	3742478.808	RES_063	2.13E-04	0.00	0.06	6.18E-08
979740.2989	3742498.808	RES_064	2.05E-04	0.00	0.06	5.95E-08
979740.2989	3742518.808	RES_065	1.96E-04	0.00	0.06	5.70E-08
979740.2989	3742538.808	RES_066	1.87E-04	0.00	0.05	5.45E-08
979740.2989	3742558.808	RES_067	1.78E-04	0.00	0.05	5.19E-08
979740.2989	3742578.808	RES_068	1.69E-04	0.00	0.05	4.93E-08
979740.2989	3742598.808	RES_069	1.61E-04	0.00	0.05	4.67E-08
979740.2989	3742618.808	RES_070	1.52E-04	0.00	0.04	4.42E-08
979740.2989	3742638.808	RES_071	1.43E-04	0.00	0.04	4.17E-08
979740.2989	3742658.808	RES_072	1.35E-04	0.00	0.04	3.93E-08
979740.2989	3742678.808	RES_073	1.28E-04	0.00	0.04	3.72E-08
979740.2989	3742698.808	RES_074	1.21E-04	0.00	0.04	3.51E-08
979740.2989	3742718.808	RES_075	1.14E-04	0.00	0.03	3.32E-08
979740.2989	3742738.808	RES_076	1.08E-04	0.00	0.03	3.14E-08
979740.2989	3742758.808	RES_077	1.02E-04	0.00	0.03	2.98E-08
979740.2989	3742778.808	RES_078	9.75E-05	0.00	0.03	2.84E-08
979760.2989	3742478.808	RES_079	2.27E-04	0.00	0.07	6.59E-08
979760.2989	3742498.808	RES_080	2.17E-04	0.00	0.06	6.32E-08
979760.2989	3742518.808	RES_081	2.07E-04	0.00	0.06	6.03E-08
979760.2989	3742538.808	RES_082	1.97E-04	0.00	0.06	5.73E-08
979760.2989	3742558.808	RES_083	1.87E-04	0.00	0.05	5.43E-08
979760.2989	3742578.808	RES_084	1.77E-04	0.00	0.05	5.14E-08
979760.2989	3742598.808	RES_085	1.67E-04	0.00	0.05	4.85E-08
979760.2989	3742618.808	RES_086	1.57E-04	0.00	0.05	4.57E-08
979760.2989	3742638.808	RES_087	1.48E-04	0.00	0.04	4.31E-08
979760.2989	3742658.808	RES_088	1.39E-04	0.00	0.04	4.06E-08
979760.2989	3742678.808	RES_089	1.32E-04	0.00	0.04	3.83E-08
979760.2989	3742698.808	RES_090	1.24E-04	0.00	0.04	3.61E-08
979760.2989	3742718.808	RES_091	1.17E-04	0.00	0.03	3.41E-08
979760.2989	3742738.808	RES_092	1.11E-04	0.00	0.03	3.22E-08
979760.2989	3742758.808	RES_093	1.05E-04	0.00	0.03	3.06E-08
979760.2989	3742778.808	RES_094	1.00E-04	0.00	0.03	2.91E-08
979780.2989	3742478.808	RES_095	2.42E-04	0.00	0.07	7.04E-08
979780.2989	3742498.808	RES_096	2.31E-04	0.00	0.07	6.71E-08
979780.2989	3742518.808	RES_097	2.19E-04	0.00	0.06	6.37E-08
979780.2989	3742538.808	RES_098	2.07E-04	0.00	0.06	6.03E-08
979780.2989	3742558.808	RES_099	1.96E-04	0.00	0.06	5.69E-08
979780.2989	3742578.808	RES_100	1.85E-04	0.00	0.05	5.37E-08
979780.2989	3742598.808	RES_101	1.74E-04	0.00	0.05	5.05E-08
979780.2989	3742618.808	RES_102	1.63E-04	0.00	0.05	4.74E-08
979780.2989	3742638.808	RES_103	1.53E-04	0.00	0.04	4.45E-08
979780.2989	3742658.808	RES_104	1.44E-04	0.00	0.04	4.19E-08
979780.2989	3742678.808	RES_105	1.36E-04	0.00	0.04	3.94E-08
979780.2989	3742698.808	RES_106	1.28E-04	0.00	0.04	3.72E-08
979780.2989	3742718.808	RES_107	1.21E-04	0.00	0.04	3.51E-08
979780.2989	3742738.808	RES_108	1.14E-04	0.00	0.03	3.32E-08
979780.2989	3742758.808	RES_109	1.08E-04	0.00	0.03	3.15E-08
979780.2989	3742778.808	RES_110	1.03E-04	0.00	0.03	3.00E-08
979800.2989	3742478.808	RES_111	2.58E-04	0.00	0.08	7.51E-08
979800.2989	3742498.808	RES_112	2.45E-04	0.00	0.07	7.12E-08
979800.2989	3742518.808	RES_113	2.32E-04	0.00	0.07	6.73E-08
979800.2989	3742538.808	RES_114	2.18E-04	0.00	0.06	6.35E-08
979800.2989	3742558.808	RES_115	2.05E-04	0.00	0.06	5.96E-08
979800.2989	3742578.808	RES_116	1.92E-04	0.00	0.06	5.59E-08
979800.2989	3742598.808	RES_117	1.80E-04	0.00	0.05	5.24E-08
979800.2989	3742618.808	RES_118	1.69E-04	0.00	0.05	4.91E-08
979800.2989	3742638.808	RES_119	1.58E-04	0.00	0.05	4.60E-08
979800.2989	3742658.808	RES_120	1.49E-04	0.00	0.04	4.32E-08
979800.2989	3742678.808	RES_121	1.40E-04	0.00	0.04	4.07E-08
979800.2989	3742698.808	RES_122	1.32E-04	0.00	0.04	3.83E-08
979800.2989	3742718.808	RES_123	1.24E-04	0.00	0.04	3.62E-08
979800.2989	3742738.808	RES_124	1.18E-04	0.00	0.03	3.42E-08
979800.2989	3742758.808	RES_125	1.12E-04	0.00	0.03	3.25E-08
979800.2989	3742778.808	RES_126	1.06E-04	0.00	0.03	3.09E-08
979820.2989	3742478.808	RES_127	2.75E-04	0.00	0.08	8.01E-08
979820.2989	3742498.808	RES_128	2.60E-04	0.00	0.08	7.56E-08
979820.2989	3742518.808	RES_129	2.44E-04	0.00	0.07	7.11E-08
979820.2989	3742538.808	RES_130	2.29E-04	0.00	0.07	6.67E-08
979820.2989	3742558.808	RES_131	2.15E-04	0.00	0.06	6.24E-08
979820.2989	3742578.808	RES_132	2.01E-04	0.00	0.06	5.84E-08
979820.2989	3742598.808	RES_133	1.88E-04	0.00	0.05	5.46E-08
979820.2989	3742618.808	RES_134	1.75E-04	0.00	0.05	5.10E-08
979820.2989	3742638.808	RES_135	1.64E-04	0.00	0.05	4.77E-08

979820.2989	3742658.808	RES_136	1.54E-04	0.00	0.04	4.47E-08
979820.2989	3742678.808	RES_137	1.45E-04	0.00	0.04	4.21E-08
979820.2989	3742698.808	RES_138	1.36E-04	0.00	0.04	3.97E-08
979820.2989	3742718.808	RES_139	1.29E-04	0.00	0.04	3.74E-08
979820.2989	3742738.808	RES_140	1.22E-04	0.00	0.04	3.54E-08
979820.2989	3742758.808	RES_141	1.16E-04	0.00	0.03	3.36E-08
979820.2989	3742778.808	RES_142	1.10E-04	0.00	0.03	3.20E-08
979840.2989	3742478.808	RES_143	2.94E-04	0.00	0.09	8.54E-08
979840.2989	3742498.808	RES_144	2.75E-04	0.00	0.08	8.01E-08
979840.2989	3742518.808	RES_145	2.58E-04	0.00	0.07	7.50E-08
979840.2989	3742538.808	RES_146	2.41E-04	0.00	0.07	7.00E-08
979840.2989	3742558.808	RES_147	2.25E-04	0.00	0.07	6.53E-08
979840.2989	3742578.808	RES_148	2.10E-04	0.00	0.06	6.09E-08
979840.2989	3742598.808	RES_149	1.95E-04	0.00	0.06	5.68E-08
979840.2989	3742618.808	RES_150	1.82E-04	0.00	0.05	5.30E-08
979840.2989	3742638.808	RES_151	1.70E-04	0.00	0.05	4.96E-08
979840.2989	3742658.808	RES_152	1.60E-04	0.00	0.05	4.64E-08
979840.2989	3742678.808	RES_153	1.50E-04	0.00	0.04	4.37E-08
979840.2989	3742698.808	RES_154	1.41E-04	0.00	0.04	4.11E-08
979840.2989	3742718.808	RES_155	1.33E-04	0.00	0.04	3.88E-08
979840.2989	3742738.808	RES_156	1.26E-04	0.00	0.04	3.67E-08
979840.2989	3742758.808	RES_157	1.20E-04	0.00	0.03	3.49E-08
979840.2989	3742778.808	RES_158	1.14E-04	0.00	0.03	3.32E-08
979860.2989	3742478.808	RES_159	3.13E-04	0.00	0.09	9.11E-08
979860.2989	3742498.808	RES_160	2.92E-04	0.00	0.08	8.50E-08
979860.2989	3742518.808	RES_161	2.72E-04	0.00	0.08	7.90E-08
979860.2989	3742538.808	RES_162	2.53E-04	0.00	0.07	7.35E-08
979860.2989	3742558.808	RES_163	2.35E-04	0.00	0.07	6.83E-08
979860.2989	3742578.808	RES_164	2.19E-04	0.00	0.06	6.36E-08
979860.2989	3742598.808	RES_165	2.04E-04	0.00	0.06	5.93E-08
979860.2989	3742618.808	RES_166	1.90E-04	0.00	0.06	5.53E-08
979860.2989	3742638.808	RES_167	1.78E-04	0.00	0.05	5.16E-08
979860.2989	3742658.808	RES_168	1.66E-04	0.00	0.05	4.83E-08
979860.2989	3742678.808	RES_169	1.56E-04	0.00	0.05	4.54E-08
979860.2989	3742698.808	RES_170	1.47E-04	0.00	0.04	4.27E-08
979860.2989	3742718.808	RES_171	1.39E-04	0.00	0.04	4.03E-08
979860.2989	3742738.808	RES_172	1.31E-04	0.00	0.04	3.82E-08
979860.2989	3742758.808	RES_173	1.25E-04	0.00	0.04	3.62E-08
979860.2989	3742778.808	RES_174	1.19E-04	0.00	0.03	3.45E-08
979880.2989	3742458.808	RES_175	3.60E-04	0.00	0.10	1.05E-07
979880.2989	3742478.808	RES_176	3.35E-04	0.00	0.10	9.73E-08
979880.2989	3742498.808	RES_177	3.10E-04	0.00	0.09	9.02E-08
979880.2989	3742518.808	RES_178	2.87E-04	0.00	0.08	8.35E-08
979880.2989	3742538.808	RES_179	2.66E-04	0.00	0.08	7.72E-08
979880.2989	3742558.808	RES_180	2.46E-04	0.00	0.07	7.16E-08
979880.2989	3742578.808	RES_181	2.29E-04	0.00	0.07	6.65E-08
979880.2989	3742598.808	RES_182	2.13E-04	0.00	0.06	6.19E-08
979880.2989	3742618.808	RES_183	1.98E-04	0.00	0.06	5.75E-08
979880.2989	3742638.808	RES_184	1.85E-04	0.00	0.05	5.37E-08
979880.2989	3742658.808	RES_185	1.73E-04	0.00	0.05	5.02E-08
979880.2989	3742678.808	RES_186	1.62E-04	0.00	0.05	4.72E-08
979880.2989	3742698.808	RES_187	1.53E-04	0.00	0.04	4.44E-08
979880.2989	3742718.808	RES_188	1.44E-04	0.00	0.04	4.19E-08
979880.2989	3742738.808	RES_189	1.37E-04	0.00	0.04	3.97E-08
979880.2989	3742758.808	RES_190	1.30E-04	0.00	0.04	3.77E-08
979900.2989	3742458.808	RES_191	3.87E-04	0.00	0.11	1.13E-07
979900.2989	3742478.808	RES_192	3.58E-04	0.00	0.10	1.04E-07
979900.2989	3742498.808	RES_193	3.30E-04	0.00	0.10	9.60E-08
979900.2989	3742518.808	RES_194	3.04E-04	0.00	0.09	8.83E-08
979900.2989	3742538.808	RES_195	2.80E-04	0.00	0.08	8.14E-08
979900.2989	3742558.808	RES_196	2.58E-04	0.00	0.08	7.51E-08
979900.2989	3742578.808	RES_197	2.39E-04	0.00	0.07	6.96E-08
979900.2989	3742598.808	RES_198	2.22E-04	0.00	0.06	6.47E-08
979900.2989	3742618.808	RES_199	2.06E-04	0.00	0.06	6.00E-08
979900.2989	3742638.808	RES_200	1.92E-04	0.00	0.06	5.60E-08
979900.2989	3742658.808	RES_201	1.80E-04	0.00	0.05	5.24E-08
979900.2989	3742678.808	RES_202	1.69E-04	0.00	0.05	4.92E-08
979900.2989	3742698.808	RES_203	1.59E-04	0.00	0.05	4.63E-08
979900.2989	3742718.808	RES_204	1.50E-04	0.00	0.04	4.37E-08
979900.2989	3742738.808	RES_205	1.42E-04	0.00	0.04	4.14E-08
979900.2989	3742758.808	RES_206	1.35E-04	0.00	0.04	3.93E-08
979920.2989	3742458.808	RES_207	4.18E-04	0.00	0.12	1.22E-07
979920.2989	3742478.808	RES_208	3.84E-04	0.00	0.11	1.12E-07
979920.2989	3742498.808	RES_209	3.52E-04	0.00	0.10	1.02E-07
979920.2989	3742518.808	RES_210	3.22E-04	0.00	0.09	9.37E-08

979920.2989	3742538.808	RES_211	2.96E-04	0.00	0.09	8.59E-08
979920.2989	3742558.808	RES_212	2.72E-04	0.00	0.08	7.91E-08
979920.2989	3742578.808	RES_213	2.51E-04	0.00	0.07	7.31E-08
979920.2989	3742598.808	RES_214	2.33E-04	0.00	0.07	6.78E-08
979920.2989	3742618.808	RES_215	2.16E-04	0.00	0.06	6.29E-08
979920.2989	3742638.808	RES_216	2.02E-04	0.00	0.06	5.86E-08
979920.2989	3742658.808	RES_217	1.89E-04	0.00	0.05	5.48E-08
979920.2989	3742678.808	RES_218	1.77E-04	0.00	0.05	5.15E-08
979920.2989	3742698.808	RES_219	1.67E-04	0.00	0.05	4.85E-08
979920.2989	3742718.808	RES_220	1.57E-04	0.00	0.05	4.57E-08
979920.2989	3742738.808	RES_221	1.49E-04	0.00	0.04	4.33E-08
979920.2989	3742758.808	RES_222	1.41E-04	0.00	0.04	4.11E-08
979940.2989	3742458.808	RES_223	4.52E-04	0.00	0.13	1.31E-07
979940.2989	3742478.808	RES_224	4.12E-04	0.00	0.12	1.20E-07
979940.2989	3742498.808	RES_225	3.75E-04	0.00	0.11	1.09E-07
979940.2989	3742518.808	RES_226	3.42E-04	0.00	0.10	9.94E-08
979940.2989	3742538.808	RES_227	3.13E-04	0.00	0.09	9.09E-08
979940.2989	3742558.808	RES_228	2.87E-04	0.00	0.08	8.36E-08
979940.2989	3742578.808	RES_229	2.65E-04	0.00	0.08	7.71E-08
979940.2989	3742598.808	RES_230	2.46E-04	0.00	0.07	7.15E-08
979940.2989	3742618.808	RES_231	2.28E-04	0.00	0.07	6.62E-08
979940.2989	3742638.808	RES_232	2.12E-04	0.00	0.06	6.17E-08
979940.2989	3742658.808	RES_233	1.98E-04	0.00	0.06	5.77E-08
979940.2989	3742678.808	RES_234	1.86E-04	0.00	0.05	5.42E-08
979940.2989	3742698.808	RES_235	1.75E-04	0.00	0.05	5.09E-08
979940.2989	3742718.808	RES_236	1.65E-04	0.00	0.05	4.80E-08
979940.2989	3742738.808	RES_237	1.56E-04	0.00	0.05	4.55E-08
979940.2989	3742758.808	RES_238	1.48E-04	0.00	0.04	4.31E-08
979960.2989	3742458.808	RES_239	4.89E-04	0.00	0.14	1.42E-07
979960.2989	3742478.808	RES_240	4.43E-04	0.00	0.13	1.29E-07
979960.2989	3742498.808	RES_241	4.01E-04	0.00	0.12	1.17E-07
979960.2989	3742518.808	RES_242	3.65E-04	0.00	0.11	1.06E-07
979960.2989	3742538.808	RES_243	3.32E-04	0.00	0.10	9.67E-08
979960.2989	3742558.808	RES_244	3.05E-04	0.00	0.09	8.88E-08
979960.2989	3742578.808	RES_245	2.82E-04	0.00	0.08	8.19E-08
979960.2989	3742598.808	RES_246	2.61E-04	0.00	0.08	7.58E-08
979960.2989	3742618.808	RES_247	2.41E-04	0.00	0.07	7.02E-08
979960.2989	3742638.808	RES_248	2.25E-04	0.00	0.07	6.53E-08
979960.2989	3742658.808	RES_249	2.10E-04	0.00	0.06	6.11E-08
979960.2989	3742678.808	RES_250	1.97E-04	0.00	0.06	5.73E-08
979960.2989	3742698.808	RES_251	1.85E-04	0.00	0.05	5.38E-08
979960.2989	3742718.808	RES_252	1.74E-04	0.00	0.05	5.06E-08
979960.2989	3742738.808	RES_253	1.65E-04	0.00	0.05	4.79E-08
979960.2989	3742758.808	RES_254	1.56E-04	0.00	0.05	4.54E-08
979980.2989	3742458.808	RES_255	5.31E-04	0.00	0.15	1.55E-07
979980.2989	3742478.808	RES_256	4.79E-04	0.00	0.14	1.39E-07
979980.2989	3742498.808	RES_257	4.32E-04	0.00	0.13	1.26E-07
979980.2989	3742518.808	RES_258	3.92E-04	0.00	0.11	1.14E-07
979980.2989	3742538.808	RES_259	3.57E-04	0.00	0.10	1.04E-07
979980.2989	3742558.808	RES_260	3.27E-04	0.00	0.10	9.51E-08
979980.2989	3742578.808	RES_261	3.01E-04	0.00	0.09	8.76E-08
979980.2989	3742598.808	RES_262	2.79E-04	0.00	0.08	8.11E-08
979980.2989	3742618.808	RES_263	2.58E-04	0.00	0.07	7.50E-08
979980.2989	3742638.808	RES_264	2.40E-04	0.00	0.07	6.97E-08
979980.2989	3742658.808	RES_265	2.24E-04	0.00	0.07	6.51E-08
979980.2989	3742678.808	RES_266	2.09E-04	0.00	0.06	6.09E-08
979980.2989	3742698.808	RES_267	1.96E-04	0.00	0.06	5.71E-08
979980.2989	3742718.808	RES_268	1.85E-04	0.00	0.05	5.37E-08
979980.2989	3742738.808	RES_269	1.75E-04	0.00	0.05	5.08E-08
979980.2989	3742758.808	RES_270	1.65E-04	0.00	0.05	4.81E-08
980000.2989	3742458.808	RES_271	5.83E-04	0.00	0.17	1.70E-07
980000.2989	3742478.808	RES_272	5.23E-04	0.00	0.15	1.52E-07
980000.2989	3742498.808	RES_273	4.70E-04	0.00	0.14	1.37E-07
980000.2989	3742518.808	RES_274	4.25E-04	0.00	0.12	1.24E-07
980000.2989	3742538.808	RES_275	3.86E-04	0.00	0.11	1.12E-07
980000.2989	3742558.808	RES_276	3.54E-04	0.00	0.10	1.03E-07
980000.2989	3742578.808	RES_277	3.25E-04	0.00	0.09	9.46E-08
980000.2989	3742598.808	RES_278	3.01E-04	0.00	0.09	8.74E-08
980000.2989	3742618.808	RES_279	2.78E-04	0.00	0.08	8.07E-08
980000.2989	3742638.808	RES_280	2.58E-04	0.00	0.07	7.49E-08
980000.2989	3742658.808	RES_281	2.41E-04	0.00	0.07	7.00E-08
980000.2989	3742678.808	RES_282	2.25E-04	0.00	0.07	6.53E-08
980000.2989	3742698.808	RES_283	2.10E-04	0.00	0.06	6.11E-08
980000.2989	3742718.808	RES_284	1.97E-04	0.00	0.06	5.73E-08
980000.2989	3742738.808	RES_285	1.86E-04	0.00	0.05	5.40E-08

980000.2989	3742758.808	RES_286	1.75E-04	0.00	0.05	5.10E-08
980020.2989	3742518.808	RES_287	4.68E-04	0.00	0.14	1.36E-07
980020.2989	3742538.808	RES_288	4.24E-04	0.00	0.12	1.23E-07
980020.2989	3742558.808	RES_289	3.87E-04	0.00	0.11	1.13E-07
980020.2989	3742578.808	RES_290	3.55E-04	0.00	0.10	1.03E-07
980020.2989	3742598.808	RES_291	3.27E-04	0.00	0.10	9.51E-08
980020.2989	3742618.808	RES_292	3.01E-04	0.00	0.09	8.77E-08
980020.2989	3742638.808	RES_293	2.79E-04	0.00	0.08	8.12E-08
980020.2989	3742658.808	RES_294	2.60E-04	0.00	0.08	7.56E-08
980020.2989	3742678.808	RES_295	2.42E-04	0.00	0.07	7.04E-08
980020.2989	3742698.808	RES_296	2.26E-04	0.00	0.07	6.56E-08
980020.2989	3742718.808	RES_297	2.11E-04	0.00	0.06	6.14E-08
980020.2989	3742738.808	RES_298	1.98E-04	0.00	0.06	5.77E-08
980020.2989	3742758.808	RES_299	1.87E-04	0.00	0.05	5.43E-08
980040.2989	3742638.808	RES_300	3.05E-04	0.00	0.09	8.87E-08
980040.2989	3742658.808	RES_301	2.83E-04	0.00	0.08	8.23E-08
980040.2989	3742678.808	RES_302	2.62E-04	0.00	0.08	7.63E-08
980040.2989	3742698.808	RES_303	2.44E-04	0.00	0.07	7.09E-08
980040.2989	3742718.808	RES_304	2.28E-04	0.00	0.07	6.62E-08
980040.2989	3742738.808	RES_305	2.13E-04	0.00	0.06	6.20E-08
980047.3212	3742438.937	RES_306	8.77E-04	0.00	0.25	2.55E-07
980047.3212	3742458.937	RES_307	7.73E-04	0.00	0.22	2.25E-07
980047.3212	3742478.937	RES_308	6.85E-04	0.00	0.20	1.99E-07
980047.3212	3742498.937	RES_309	6.11E-04	0.00	0.18	1.78E-07
980047.3212	3742518.937	RES_310	5.47E-04	0.00	0.16	1.59E-07
980047.3212	3742538.937	RES_311	4.94E-04	0.00	0.14	1.44E-07
980067.3212	3742418.937	RES_312	1.18E-03	0.00	0.34	3.42E-07
980067.3212	3742438.937	RES_313	1.02E-03	0.00	0.30	2.97E-07
980067.3212	3742458.937	RES_314	8.94E-04	0.00	0.26	2.60E-07
980067.3212	3742478.937	RES_315	7.89E-04	0.00	0.23	2.29E-07
980067.3212	3742498.937	RES_316	6.99E-04	0.00	0.20	2.03E-07
980067.3212	3742518.937	RES_317	6.23E-04	0.00	0.18	1.81E-07
980067.3212	3742538.937	RES_318	5.59E-04	0.00	0.16	1.63E-07
980067.3212	3742558.937	RES_319	5.05E-04	0.00	0.15	1.47E-07
980067.3212	3742578.937	RES_320	4.58E-04	0.00	0.13	1.33E-07
980087.3212	3742418.937	RES_321	1.42E-03	0.00	0.41	4.14E-07
980087.3212	3742438.937	RES_322	1.22E-03	0.00	0.35	3.54E-07
980087.3212	3742458.937	RES_323	1.05E-03	0.00	0.31	3.06E-07
980087.3212	3742478.937	RES_324	9.22E-04	0.00	0.27	2.68E-07
980087.3212	3742498.937	RES_325	8.11E-04	0.00	0.24	2.36E-07
980087.3212	3742518.937	RES_326	7.18E-04	0.00	0.21	2.09E-07
980087.3212	3742538.937	RES_327	6.41E-04	0.00	0.19	1.86E-07
980087.3212	3742558.937	RES_328	5.75E-04	0.00	0.17	1.67E-07
980087.3212	3742578.937	RES_329	5.18E-04	0.00	0.15	1.50E-07
980107.3212	3742398.937	RES_330	2.09E-03	0.00	0.61	6.08E-07
980107.3212	3742418.937	RES_331	1.75E-03	0.00	0.51	5.10E-07
980107.3212	3742438.937	RES_332	1.48E-03	0.00	0.43	4.30E-07
980107.3212	3742458.937	RES_333	1.26E-03	0.00	0.37	3.68E-07
980107.3212	3742478.937	RES_334	1.09E-03	0.00	0.32	3.18E-07
980107.3212	3742498.937	RES_335	9.51E-04	0.00	0.28	2.77E-07
980107.3212	3742518.937	RES_336	8.35E-04	0.00	0.24	2.43E-07
980107.3212	3742538.937	RES_337	7.38E-04	0.00	0.21	2.15E-07
980107.3212	3742558.937	RES_338	6.57E-04	0.00	0.19	1.91E-07
980107.3212	3742578.937	RES_339	5.88E-04	0.00	0.17	1.71E-07
980127.3212	3742398.937	RES_340	2.52E-03	0.00	0.73	7.32E-07
980127.3212	3742418.937	RES_341	2.16E-03	0.00	0.63	6.28E-07
980127.3212	3742438.937	RES_342	1.83E-03	0.00	0.53	5.32E-07
980127.3212	3742458.937	RES_343	1.54E-03	0.00	0.45	4.47E-07
980127.3212	3742478.937	RES_344	1.30E-03	0.00	0.38	3.79E-07
980127.3212	3742498.937	RES_345	1.12E-03	0.00	0.33	3.26E-07
980127.3212	3742518.937	RES_346	9.75E-04	0.00	0.28	2.84E-07
980127.3212	3742538.937	RES_347	8.55E-04	0.00	0.25	2.49E-07
980127.3212	3742558.937	RES_348	7.56E-04	0.00	0.22	2.20E-07
980127.3212	3742578.937	RES_349	6.72E-04	0.00	0.20	1.96E-07
980127.3212	3742598.937	RES_350	6.02E-04	0.00	0.18	1.75E-07
980147.3212	3742378.937	RES_351	3.67E-03	0.00	1.07	1.07E-06
980147.3212	3742398.937	RES_352	3.07E-03	0.00	0.89	8.91E-07
980147.3212	3742418.937	RES_353	2.64E-03	0.00	0.77	7.67E-07
980147.3212	3742438.937	RES_354	2.26E-03	0.00	0.66	6.56E-07
980147.3212	3742458.937	RES_355	1.86E-03	0.00	0.54	5.42E-07
980147.3212	3742478.937	RES_356	1.56E-03	0.00	0.45	4.54E-07
980147.3212	3742498.937	RES_357	1.33E-03	0.00	0.39	3.86E-07
980147.3212	3742518.937	RES_358	1.14E-03	0.00	0.33	3.32E-07
980147.3212	3742538.937	RES_359	9.95E-04	0.00	0.29	2.89E-07
980147.3212	3742558.937	RES_360	8.73E-04	0.00	0.25	2.54E-07

980147.3212	3742578.937	RES_361	7.72E-04	0.00	0.22	2.25E-07
980147.3212	3742598.937	RES_362	6.88E-04	0.00	0.20	2.00E-07
980147.3212	3742618.937	RES_363	6.15E-04	0.00	0.18	1.79E-07
980167.3212	3742378.937	RES_364	4.75E-03	0.00	1.38	1.38E-06
980167.3212	3742398.937	RES_365	3.92E-03	0.00	1.14	1.14E-06
980167.3212	3742418.937	RES_366	3.27E-03	0.00	0.95	9.52E-07
980167.3212	3742438.937	RES_367	2.73E-03	0.00	0.79	7.94E-07
980167.3212	3742458.937	RES_368	2.24E-03	0.00	0.65	6.51E-07
980167.3212	3742478.937	RES_369	1.86E-03	0.00	0.54	5.40E-07
980167.3212	3742498.937	RES_370	1.57E-03	0.00	0.46	4.56E-07
980167.3212	3742518.937	RES_371	1.34E-03	0.00	0.39	3.91E-07
980167.3212	3742538.937	RES_372	1.16E-03	0.00	0.34	3.38E-07
980167.3212	3742558.937	RES_373	1.02E-03	0.00	0.30	2.95E-07
980167.3212	3742578.937	RES_374	8.95E-04	0.00	0.26	2.60E-07
980167.3212	3742598.937	RES_375	7.93E-04	0.00	0.23	2.30E-07
980167.3212	3742618.937	RES_376	7.05E-04	0.00	0.21	2.05E-07
980167.3212	3742638.937	RES_377	6.31E-04	0.00	0.18	1.83E-07
980167.3212	3742658.937	RES_378	5.67E-04	0.00	0.16	1.65E-07
980187.3212	3742358.937	RES_379	7.94E-03	0.00	2.31	2.31E-06
980187.3212	3742378.937	RES_380	6.29E-03	0.00	1.83	1.83E-06
980187.3212	3742398.937	RES_381	5.08E-03	0.00	1.48	1.48E-06
980187.3212	3742418.937	RES_382	4.08E-03	0.00	1.19	1.19E-06
980187.3212	3742438.937	RES_383	3.28E-03	0.00	0.96	9.55E-07
980187.3212	3742458.937	RES_384	2.67E-03	0.00	0.78	7.76E-07
980187.3212	3742478.937	RES_385	2.21E-03	0.00	0.64	6.41E-07
980187.3212	3742498.937	RES_386	1.86E-03	0.00	0.54	5.40E-07
980187.3212	3742518.937	RES_387	1.58E-03	0.00	0.46	4.60E-07
980187.3212	3742538.937	RES_388	1.36E-03	0.00	0.40	3.96E-07
980187.3212	3742558.937	RES_389	1.18E-03	0.00	0.34	3.44E-07
980187.3212	3742578.937	RES_390	1.03E-03	0.00	0.30	3.01E-07
980187.3212	3742598.937	RES_391	9.12E-04	0.00	0.27	2.65E-07
980187.3212	3742618.937	RES_392	8.08E-04	0.00	0.23	2.35E-07
980187.3212	3742638.937	RES_393	7.19E-04	0.00	0.21	2.09E-07
980187.3212	3742658.937	RES_394	6.45E-04	0.00	0.19	1.88E-07
980187.3212	3742678.937	RES_395	5.82E-04	0.00	0.17	1.69E-07
980207.3212	3742338.937	RES_396	1.41E-02	0.00	4.09	4.09E-06
980207.3212	3742358.937	RES_397	9.81E-03	0.00	2.85	2.85E-06
980207.3212	3742378.937	RES_398	7.80E-03	0.00	2.27	2.27E-06
980207.3212	3742398.937	RES_399	6.18E-03	0.00	1.80	1.80E-06
980207.3212	3742418.937	RES_400	4.84E-03	0.00	1.41	1.41E-06
980207.3212	3742438.937	RES_401	3.85E-03	0.00	1.12	1.12E-06
980207.3212	3742458.937	RES_402	3.13E-03	0.00	0.91	9.09E-07
980207.3212	3742478.937	RES_403	2.59E-03	0.00	0.75	7.52E-07
980207.3212	3742498.937	RES_404	2.17E-03	0.00	0.63	6.32E-07
980207.3212	3742518.937	RES_405	1.85E-03	0.00	0.54	5.37E-07
980207.3212	3742538.937	RES_406	1.59E-03	0.00	0.46	4.61E-07
980207.3212	3742558.937	RES_407	1.37E-03	0.00	0.40	3.99E-07
980207.3212	3742578.937	RES_408	1.19E-03	0.00	0.35	3.47E-07
980207.3212	3742598.937	RES_409	1.05E-03	0.00	0.30	3.04E-07
980207.3212	3742618.937	RES_410	9.23E-04	0.00	0.27	2.68E-07
980207.3212	3742638.937	RES_411	8.20E-04	0.00	0.24	2.38E-07
980207.3212	3742658.937	RES_412	7.34E-04	0.00	0.21	2.13E-07
980207.3212	3742678.937	RES_413	6.61E-04	0.00	0.19	1.92E-07
980207.3212	3742698.937	RES_414	5.97E-04	0.00	0.17	1.73E-07
980227.3212	3742338.937	RES_415	1.42E-02	0.00	4.13	4.13E-06
980227.3212	3742358.937	RES_416	1.06E-02	0.00	3.10	3.10E-06
980227.3212	3742378.937	RES_417	8.58E-03	0.00	2.50	2.50E-06
980227.3212	3742398.937	RES_418	6.73E-03	0.00	1.96	1.96E-06
980227.3212	3742418.937	RES_419	5.36E-03	0.00	1.56	1.56E-06
980227.3212	3742438.937	RES_420	4.33E-03	0.00	1.26	1.26E-06
980227.3212	3742458.937	RES_421	3.55E-03	0.00	1.03	1.03E-06
980227.3212	3742478.937	RES_422	2.95E-03	0.00	0.86	8.59E-07
980227.3212	3742498.937	RES_423	2.49E-03	0.00	0.72	7.23E-07
980227.3212	3742518.937	RES_424	2.12E-03	0.00	0.62	6.15E-07
980227.3212	3742538.937	RES_425	1.82E-03	0.00	0.53	5.28E-07
980227.3212	3742558.937	RES_426	1.57E-03	0.00	0.46	4.56E-07
980227.3212	3742578.937	RES_427	1.36E-03	0.00	0.40	3.96E-07
980227.3212	3742598.937	RES_428	1.19E-03	0.00	0.35	3.46E-07
980227.3212	3742618.937	RES_429	1.05E-03	0.00	0.30	3.05E-07
980227.3212	3742638.937	RES_430	9.30E-04	0.00	0.27	2.71E-07
980227.3212	3742658.937	RES_431	8.32E-04	0.00	0.24	2.42E-07
980227.3212	3742678.937	RES_432	7.46E-04	0.00	0.22	2.17E-07
980227.3212	3742698.937	RES_433	6.71E-04	0.00	0.20	1.95E-07
980227.3212	3742718.937	RES_434	6.07E-04	0.00	0.18	1.76E-07
980227.3212	3742738.937	RES_435	5.51E-04	0.00	0.16	1.60E-07

980247.3212	3742318.937	RES_436	1.71E-02	0.00	4.98	4.98E-06
980247.3212	3742338.937	RES_437	1.32E-02	0.00	3.85	3.85E-06
980247.3212	3742358.937	RES_438	1.05E-02	0.00	3.07	3.07E-06
980247.3212	3742378.937	RES_439	8.50E-03	0.00	2.47	2.47E-06
980247.3212	3742398.937	RES_440	6.90E-03	0.00	2.01	2.01E-06
980247.3212	3742418.937	RES_441	5.64E-03	0.00	1.64	1.64E-06
980247.3212	3742438.937	RES_442	4.65E-03	0.00	1.35	1.35E-06
980247.3212	3742458.937	RES_443	3.87E-03	0.00	1.12	1.12E-06
980247.3212	3742478.937	RES_444	3.25E-03	0.00	0.95	9.46E-07
980247.3212	3742498.937	RES_445	2.76E-03	0.00	0.80	8.03E-07
980247.3212	3742518.937	RES_446	2.36E-03	0.00	0.69	6.87E-07
980247.3212	3742538.937	RES_447	2.03E-03	0.00	0.59	5.91E-07
980247.3212	3742558.937	RES_448	1.76E-03	0.00	0.51	5.11E-07
980247.3212	3742578.937	RES_449	1.53E-03	0.00	0.44	4.44E-07
980247.3212	3742598.937	RES_450	1.34E-03	0.00	0.39	3.89E-07
980247.3212	3742618.937	RES_451	1.18E-03	0.00	0.34	3.43E-07
980247.3212	3742638.937	RES_452	1.05E-03	0.00	0.30	3.04E-07
980247.3212	3742658.937	RES_453	9.34E-04	0.00	0.27	2.72E-07
980247.3212	3742678.937	RES_454	8.36E-04	0.00	0.24	2.43E-07
980247.3212	3742698.937	RES_455	7.51E-04	0.00	0.22	2.18E-07
980247.3212	3742718.937	RES_456	6.78E-04	0.00	0.20	1.97E-07
980247.3212	3742738.937	RES_457	6.14E-04	0.00	0.18	1.79E-07
980247.3212	3742758.937	RES_458	5.58E-04	0.00	0.16	1.62E-07
980267.3212	3742298.937	RES_459	1.88E-02	0.00	5.47	5.47E-06
980267.3212	3742318.937	RES_460	1.49E-02	0.00	4.34	4.34E-06
980267.3212	3742338.937	RES_461	1.20E-02	0.00	3.49	3.49E-06
980267.3212	3742358.937	RES_462	9.81E-03	0.00	2.85	2.85E-06
980267.3212	3742378.937	RES_463	8.13E-03	0.00	2.36	2.36E-06
980267.3212	3742398.937	RES_464	6.79E-03	0.00	1.97	1.97E-06
980267.3212	3742418.937	RES_465	5.69E-03	0.00	1.65	1.65E-06
980267.3212	3742438.937	RES_466	4.79E-03	0.00	1.39	1.39E-06
980267.3212	3742458.937	RES_467	4.05E-03	0.00	1.18	1.18E-06
980267.3212	3742478.937	RES_468	3.45E-03	0.00	1.00	1.00E-06
980267.3212	3742498.937	RES_469	2.96E-03	0.00	0.86	8.61E-07
980267.3212	3742518.937	RES_470	2.55E-03	0.00	0.74	7.43E-07
980267.3212	3742538.937	RES_471	2.21E-03	0.00	0.64	6.43E-07
980267.3212	3742558.937	RES_472	1.92E-03	0.00	0.56	5.60E-07
980267.3212	3742578.937	RES_473	1.68E-03	0.00	0.49	4.89E-07
980267.3212	3742598.937	RES_474	1.48E-03	0.00	0.43	4.30E-07
980267.3212	3742618.937	RES_475	1.31E-03	0.00	0.38	3.80E-07
980267.3212	3742638.937	RES_476	1.16E-03	0.00	0.34	3.38E-07
980267.3212	3742658.937	RES_477	1.04E-03	0.00	0.30	3.01E-07
980267.3212	3742678.937	RES_478	9.26E-04	0.00	0.27	2.69E-07
980267.3212	3742698.937	RES_479	8.34E-04	0.00	0.24	2.42E-07
980267.3212	3742718.937	RES_480	7.52E-04	0.00	0.22	2.19E-07
980267.3212	3742738.937	RES_481	6.80E-04	0.00	0.20	1.98E-07
980267.3212	3742758.937	RES_482	6.17E-04	0.00	0.18	1.79E-07
980267.3212	3742778.937	RES_483	5.63E-04	0.00	0.16	1.64E-07
980287.3212	3742278.937	RES_484	1.90E-02	0.00	5.54	5.54E-06
980287.3212	3742298.937	RES_485	1.56E-02	0.00	4.54	4.54E-06
980287.3212	3742318.937	RES_486	1.29E-02	0.00	3.75	3.75E-06
980287.3212	3742338.937	RES_487	1.07E-02	0.00	3.12	3.12E-06
980287.3212	3742358.937	RES_488	9.00E-03	0.00	2.62	2.62E-06
980287.3212	3742378.937	RES_489	7.61E-03	0.00	2.21	2.21E-06
980287.3212	3742398.937	RES_490	6.47E-03	0.00	1.88	1.88E-06
980287.3212	3742418.937	RES_491	5.54E-03	0.00	1.61	1.61E-06
980287.3212	3742438.937	RES_492	4.75E-03	0.00	1.38	1.38E-06
980287.3212	3742458.937	RES_493	4.10E-03	0.00	1.19	1.19E-06
980287.3212	3742478.937	RES_494	3.54E-03	0.00	1.03	1.03E-06
980287.3212	3742498.937	RES_495	3.08E-03	0.00	0.89	8.95E-07
980287.3212	3742518.937	RES_496	2.68E-03	0.00	0.78	7.79E-07
980287.3212	3742538.937	RES_497	2.34E-03	0.00	0.68	6.81E-07
980287.3212	3742558.937	RES_498	2.05E-03	0.00	0.60	5.97E-07
980287.3212	3742578.937	RES_499	1.81E-03	0.00	0.53	5.25E-07
980287.3212	3742598.937	RES_500	1.60E-03	0.00	0.47	4.65E-07
980287.3212	3742618.937	RES_501	1.42E-03	0.00	0.41	4.13E-07
980287.3212	3742638.937	RES_502	1.26E-03	0.00	0.37	3.68E-07
980287.3212	3742658.937	RES_503	1.13E-03	0.00	0.33	3.28E-07
980287.3212	3742678.937	RES_504	1.01E-03	0.00	0.29	2.94E-07
980287.3212	3742698.937	RES_505	9.12E-04	0.00	0.27	2.65E-07
980287.3212	3742718.937	RES_506	8.23E-04	0.00	0.24	2.39E-07
980287.3212	3742738.937	RES_507	7.46E-04	0.00	0.22	2.17E-07
980287.3212	3742758.937	RES_508	6.77E-04	0.00	0.20	1.97E-07
980287.3212	3742778.937	RES_509	6.18E-04	0.00	0.18	1.80E-07
980307.3212	3742278.937	RES_510	1.48E-02	0.00	4.29	4.29E-06

980307.3212	3742298.937	RES_511	1.26E-02	0.00	3.68	3.68E-06
980307.3212	3742318.937	RES_512	1.08E-02	0.00	3.15	3.15E-06
980307.3212	3742338.937	RES_513	9.32E-03	0.00	2.71	2.71E-06
980307.3212	3742358.937	RES_514	8.03E-03	0.00	2.34	2.34E-06
980307.3212	3742378.937	RES_515	6.94E-03	0.00	2.02	2.02E-06
980307.3212	3742398.937	RES_516	6.02E-03	0.00	1.75	1.75E-06
980307.3212	3742418.937	RES_517	5.24E-03	0.00	1.53	1.53E-06
980307.3212	3742438.937	RES_518	4.58E-03	0.00	1.33	1.33E-06
980307.3212	3742458.937	RES_519	4.01E-03	0.00	1.17	1.17E-06
980307.3212	3742478.937	RES_520	3.52E-03	0.00	1.02	1.02E-06
980307.3212	3742498.937	RES_521	3.10E-03	0.00	0.90	9.01E-07
980307.3212	3742518.937	RES_522	2.73E-03	0.00	0.79	7.94E-07
980307.3212	3742538.937	RES_523	2.41E-03	0.00	0.70	7.01E-07
980307.3212	3742558.937	RES_524	2.13E-03	0.00	0.62	6.20E-07
980307.3212	3742578.937	RES_525	1.89E-03	0.00	0.55	5.51E-07
980307.3212	3742598.937	RES_526	1.69E-03	0.00	0.49	4.91E-07
980307.3212	3742618.937	RES_527	1.51E-03	0.00	0.44	4.39E-07
980307.3212	3742638.937	RES_528	1.35E-03	0.00	0.39	3.92E-07
980307.3212	3742658.937	RES_529	1.21E-03	0.00	0.35	3.52E-07
980307.3212	3742678.937	RES_530	1.09E-03	0.00	0.32	3.17E-07
980307.3212	3742698.937	RES_531	9.82E-04	0.00	0.29	2.86E-07
980307.3212	3742718.937	RES_532	8.89E-04	0.00	0.26	2.59E-07
980307.3212	3742738.937	RES_533	8.08E-04	0.00	0.23	2.35E-07
980307.3212	3742758.937	RES_534	7.36E-04	0.00	0.21	2.14E-07
980307.3212	3742778.937	RES_535	6.72E-04	0.00	0.20	1.96E-07
980327.3212	3742258.937	RES_536	1.20E-02	0.00	3.48	3.48E-06
980327.3212	3742278.937	RES_537	1.09E-02	0.00	3.17	3.17E-06
980327.3212	3742298.937	RES_538	9.86E-03	0.00	2.87	2.87E-06
980327.3212	3742318.937	RES_539	8.83E-03	0.00	2.57	2.57E-06
980327.3212	3742338.937	RES_540	7.85E-03	0.00	2.28	2.28E-06
980327.3212	3742358.937	RES_541	6.97E-03	0.00	2.03	2.03E-06
980327.3212	3742378.937	RES_542	6.17E-03	0.00	1.80	1.80E-06
980327.3212	3742398.937	RES_543	5.47E-03	0.00	1.59	1.59E-06
980327.3212	3742418.937	RES_544	4.85E-03	0.00	1.41	1.41E-06
980327.3212	3742438.937	RES_545	4.31E-03	0.00	1.25	1.25E-06
980327.3212	3742458.937	RES_546	3.83E-03	0.00	1.11	1.11E-06
980327.3212	3742478.937	RES_547	3.41E-03	0.00	0.99	9.91E-07
980327.3212	3742498.937	RES_548	3.04E-03	0.00	0.88	8.83E-07
980327.3212	3742518.937	RES_549	2.71E-03	0.00	0.79	7.87E-07
980327.3212	3742538.937	RES_550	2.42E-03	0.00	0.70	7.03E-07
980327.3212	3742558.937	RES_551	2.16E-03	0.00	0.63	6.29E-07
980327.3212	3742578.937	RES_552	1.94E-03	0.00	0.56	5.64E-07
980327.3212	3742598.937	RES_553	1.74E-03	0.00	0.51	5.07E-07
980327.3212	3742618.937	RES_554	1.57E-03	0.00	0.46	4.56E-07
980327.3212	3742638.937	RES_555	1.41E-03	0.00	0.41	4.10E-07
980327.3212	3742658.937	RES_556	1.27E-03	0.00	0.37	3.70E-07
980327.3212	3742678.937	RES_557	1.15E-03	0.00	0.33	3.34E-07
980327.3212	3742698.937	RES_558	1.04E-03	0.00	0.30	3.03E-07
980327.3212	3742718.937	RES_559	9.47E-04	0.00	0.28	2.75E-07
980327.3212	3742738.937	RES_560	8.63E-04	0.00	0.25	2.51E-07
980327.3212	3742758.937	RES_561	7.89E-04	0.00	0.23	2.29E-07
980347.3212	3742258.937	RES_562	8.13E-03	0.00	2.36	2.36E-06
980347.3212	3742278.937	RES_563	7.91E-03	0.00	2.30	2.30E-06
980347.3212	3742298.937	RES_564	7.52E-03	0.00	2.19	2.19E-06
980347.3212	3742318.937	RES_565	7.01E-03	0.00	2.04	2.04E-06
980347.3212	3742338.937	RES_566	6.46E-03	0.00	1.88	1.88E-06
980347.3212	3742358.937	RES_567	5.91E-03	0.00	1.72	1.72E-06
980347.3212	3742378.937	RES_568	5.36E-03	0.00	1.56	1.56E-06
980347.3212	3742398.937	RES_569	4.85E-03	0.00	1.41	1.41E-06
980347.3212	3742418.937	RES_570	4.38E-03	0.00	1.28	1.28E-06
980347.3212	3742438.937	RES_571	3.96E-03	0.00	1.15	1.15E-06
980347.3212	3742458.937	RES_572	3.57E-03	0.00	1.04	1.04E-06
980347.3212	3742478.937	RES_573	3.23E-03	0.00	0.94	9.38E-07
980347.3212	3742498.937	RES_574	2.91E-03	0.00	0.85	8.47E-07
980347.3212	3742518.937	RES_575	2.63E-03	0.00	0.76	7.64E-07
980347.3212	3742538.937	RES_576	2.37E-03	0.00	0.69	6.90E-07
980347.3212	3742558.937	RES_577	2.15E-03	0.00	0.62	6.24E-07
980347.3212	3742578.937	RES_578	1.94E-03	0.00	0.57	5.65E-07
980347.3212	3742598.937	RES_579	1.76E-03	0.00	0.51	5.12E-07
980347.3212	3742618.937	RES_580	1.59E-03	0.00	0.46	4.64E-07
980347.3212	3742638.937	RES_581	1.45E-03	0.00	0.42	4.20E-07
980347.3212	3742658.937	RES_582	1.31E-03	0.00	0.38	3.82E-07
980347.3212	3742678.937	RES_583	1.19E-03	0.00	0.35	3.47E-07
980347.3212	3742698.937	RES_584	1.09E-03	0.00	0.32	3.16E-07
980347.3212	3742718.937	RES_585	9.94E-04	0.00	0.29	2.89E-07

980347.3212	3742738.937	RES_586	9.09E-04	0.00	0.26	2.64E-07
980367.3212	3742298.937	RES_587	5.74E-03	0.00	1.67	1.67E-06
980367.3212	3742318.937	RES_588	5.54E-03	0.00	1.61	1.61E-06
980367.3212	3742338.937	RES_589	5.26E-03	0.00	1.53	1.53E-06
980367.3212	3742358.937	RES_590	4.93E-03	0.00	1.43	1.43E-06
980367.3212	3742378.937	RES_591	4.59E-03	0.00	1.33	1.33E-06
980367.3212	3742398.937	RES_592	4.23E-03	0.00	1.23	1.23E-06
980367.3212	3742418.937	RES_593	3.89E-03	0.00	1.13	1.13E-06
980367.3212	3742438.937	RES_594	3.57E-03	0.00	1.04	1.04E-06
980367.3212	3742458.937	RES_595	3.27E-03	0.00	0.95	9.52E-07
980367.3212	3742478.937	RES_596	3.00E-03	0.00	0.87	8.71E-07
980367.3212	3742498.937	RES_597	2.74E-03	0.00	0.80	7.96E-07
980367.3212	3742518.937	RES_598	2.50E-03	0.00	0.73	7.27E-07
980367.3212	3742538.937	RES_599	2.29E-03	0.00	0.66	6.65E-07
980367.3212	3742558.937	RES_600	2.09E-03	0.00	0.61	6.07E-07
980367.3212	3742578.937	RES_601	1.91E-03	0.00	0.55	5.55E-07
980367.3212	3742598.937	RES_602	1.74E-03	0.00	0.51	5.07E-07
980367.3212	3742618.937	RES_603	1.59E-03	0.00	0.46	4.63E-07
980367.3212	3742638.937	RES_604	1.46E-03	0.00	0.42	4.23E-07
980367.3212	3742658.937	RES_605	1.33E-03	0.00	0.39	3.87E-07
980367.3212	3742678.937	RES_606	1.22E-03	0.00	0.35	3.54E-07
980367.3212	3742698.937	RES_607	1.12E-03	0.00	0.32	3.25E-07
980367.3212	3742718.937	RES_608	1.03E-03	0.00	0.30	2.98E-07
980387.3212	3742318.937	RES_609	4.42E-03	0.00	1.28	1.28E-06
980387.3212	3742338.937	RES_610	4.29E-03	0.00	1.25	1.25E-06
980387.3212	3742358.937	RES_611	4.10E-03	0.00	1.19	1.19E-06
980387.3212	3742378.937	RES_612	3.89E-03	0.00	1.13	1.13E-06
980387.3212	3742398.937	RES_613	3.66E-03	0.00	1.06	1.06E-06
980387.3212	3742418.937	RES_614	3.42E-03	0.00	0.99	9.94E-07
980387.3212	3742438.937	RES_615	3.18E-03	0.00	0.93	9.25E-07
980387.3212	3742458.937	RES_616	2.95E-03	0.00	0.86	8.59E-07
980387.3212	3742478.937	RES_617	2.74E-03	0.00	0.80	7.96E-07
980387.3212	3742498.937	RES_618	2.53E-03	0.00	0.74	7.37E-07
980387.3212	3742518.937	RES_619	2.34E-03	0.00	0.68	6.81E-07
980387.3212	3742538.937	RES_620	2.16E-03	0.00	0.63	6.29E-07
980387.3212	3742558.937	RES_621	2.00E-03	0.00	0.58	5.80E-07
980387.3212	3742578.937	RES_622	1.84E-03	0.00	0.54	5.35E-07
980387.3212	3742598.937	RES_623	1.70E-03	0.00	0.49	4.93E-07
980387.3212	3742618.937	RES_624	1.56E-03	0.00	0.45	4.55E-07
980387.3212	3742638.937	RES_625	1.44E-03	0.00	0.42	4.19E-07
980387.3212	3742658.937	RES_626	1.33E-03	0.00	0.39	3.86E-07
980387.3212	3742678.937	RES_627	1.22E-03	0.00	0.36	3.56E-07
980387.3212	3742698.937	RES_628	1.13E-03	0.00	0.33	3.28E-07
980407.3212	3742358.937	RES_629	3.43E-03	0.00	1.00	9.96E-07
980407.3212	3742378.937	RES_630	3.30E-03	0.00	0.96	9.59E-07
980407.3212	3742398.937	RES_631	3.15E-03	0.00	0.91	9.15E-07
980407.3212	3742418.937	RES_632	2.98E-03	0.00	0.87	8.66E-07
980407.3212	3742438.937	RES_633	2.81E-03	0.00	0.82	8.17E-07
980407.3212	3742458.937	RES_634	2.64E-03	0.00	0.77	7.68E-07
980407.3212	3742478.937	RES_635	2.48E-03	0.00	0.72	7.20E-07
980407.3212	3742498.937	RES_636	2.32E-03	0.00	0.67	6.74E-07
980407.3212	3742518.937	RES_637	2.16E-03	0.00	0.63	6.29E-07
980407.3212	3742538.937	RES_638	2.02E-03	0.00	0.59	5.87E-07
980407.3212	3742558.937	RES_639	1.88E-03	0.00	0.55	5.47E-07
980407.3212	3742578.937	RES_640	1.75E-03	0.00	0.51	5.09E-07
980407.3212	3742598.937	RES_641	1.63E-03	0.00	0.47	4.73E-07
980407.3212	3742618.937	RES_642	1.51E-03	0.00	0.44	4.39E-07
980407.3212	3742638.937	RES_643	1.40E-03	0.00	0.41	4.08E-07
980407.3212	3742658.937	RES_644	1.30E-03	0.00	0.38	3.79E-07
980407.3212	3742678.937	RES_645	1.21E-03	0.00	0.35	3.52E-07
980407.3212	3742698.937	RES_646	1.12E-03	0.00	0.33	3.27E-07
980427.3212	3742378.937	RES_647	2.81E-03	0.00	0.82	8.16E-07
980427.3212	3742398.937	RES_648	2.71E-03	0.00	0.79	7.88E-07
980427.3212	3742418.937	RES_649	2.60E-03	0.00	0.75	7.55E-07
980427.3212	3742438.937	RES_650	2.47E-03	0.00	0.72	7.19E-07
980427.3212	3742458.937	RES_651	2.35E-03	0.00	0.68	6.83E-07
980427.3212	3742478.937	RES_652	2.23E-03	0.00	0.65	6.47E-07
980427.3212	3742498.937	RES_653	2.10E-03	0.00	0.61	6.11E-07
980427.3212	3742518.937	RES_654	1.98E-03	0.00	0.58	5.76E-07
980427.3212	3742538.937	RES_655	1.86E-03	0.00	0.54	5.42E-07
980427.3212	3742558.937	RES_656	1.75E-03	0.00	0.51	5.09E-07
980427.3212	3742578.937	RES_657	1.64E-03	0.00	0.48	4.78E-07
980427.3212	3742598.937	RES_658	1.54E-03	0.00	0.45	4.48E-07
980427.3212	3742618.937	RES_659	1.44E-03	0.00	0.42	4.19E-07
980427.3212	3742638.937	RES_660	1.35E-03	0.00	0.39	3.92E-07

980427.3212	3742658.937	RES_661	1.26E-03	0.00	0.37			3.67E-07
980427.3212	3742678.937	RES_662	1.18E-03	0.00	0.34			3.43E-07
980447.3212	3742438.937	RES_663	2.18E-03	0.00	0.63			6.35E-07
980447.3212	3742458.937	RES_664	2.09E-03	0.00	0.61			6.08E-07
980447.3212	3742478.937	RES_665	1.99E-03	0.00	0.58			5.80E-07
980447.3212	3742498.937	RES_666	1.90E-03	0.00	0.55			5.52E-07
980447.3212	3742518.937	RES_667	1.80E-03	0.00	0.52			5.25E-07
980447.3212	3742538.937	RES_668	1.71E-03	0.00	0.50			4.97E-07
980447.3212	3742558.937	RES_669	1.62E-03	0.00	0.47			4.71E-07
980447.3212	3742578.937	RES_670	1.53E-03	0.00	0.45			4.45E-07
980447.3212	3742598.937	RES_671	1.44E-03	0.00	0.42			4.20E-07
980447.3212	3742618.937	RES_672	1.36E-03	0.00	0.40			3.96E-07
980447.3212	3742638.937	RES_673	1.28E-03	0.00	0.37			3.73E-07
980447.3212	3742658.937	RES_674	1.21E-03	0.00	0.35			3.52E-07
980467.3212	3742478.937	RES_675	1.79E-03	0.00	0.52			5.20E-07
980467.3212	3742498.937	RES_676	1.71E-03	0.00	0.50			4.98E-07
980467.3212	3742518.937	RES_677	1.64E-03	0.00	0.48			4.76E-07
980467.3212	3742538.937	RES_678	1.56E-03	0.00	0.45			4.55E-07
980467.3212	3742558.937	RES_679	1.49E-03	0.00	0.43			4.33E-07
980467.3212	3742618.937	RES_680	1.28E-03	0.00	0.37			3.72E-07
980467.3212	3742638.937	RES_681	1.21E-03	0.00	0.35			3.52E-07
980487.3212	3742518.937	RES_682	1.49E-03	0.00	0.43			4.33E-07
980487.3212	3742538.937	RES_683	1.43E-03	0.00	0.41			4.15E-07
980077.176	3742616.828	P_001	4.05E-04	0.00	0.07		6.56E-08	
980077.176	3742636.828	P_002	3.69E-04	0.00	0.06		5.98E-08	
980077.176	3742656.828	P_003	3.38E-04	0.00	0.05		5.47E-08	
980077.176	3742676.828	P_004	3.11E-04	0.00	0.05		5.04E-08	
980077.176	3742696.828	P_005	2.88E-04	0.00	0.05		4.66E-08	
980077.176	3742716.828	P_006	2.67E-04	0.00	0.04		4.33E-08	
980077.176	3742736.828	P_007	2.49E-04	0.00	0.04		4.04E-08	
980097.176	3742616.828	P_008	4.54E-04	0.00	0.07		7.35E-08	
980097.176	3742636.828	P_009	4.12E-04	0.00	0.07		6.67E-08	
980097.176	3742656.828	P_010	3.74E-04	0.00	0.06		6.06E-08	
980097.176	3742676.828	P_011	3.43E-04	0.00	0.06		5.56E-08	
980097.176	3742696.828	P_012	3.16E-04	0.00	0.05		5.12E-08	
980097.176	3742716.828	P_013	2.93E-04	0.00	0.05		4.75E-08	
980097.176	3742736.828	P_014	2.73E-04	0.00	0.04		4.42E-08	
980117.176	3742636.828	P_015	4.62E-04	0.00	0.07		7.49E-08	
980117.176	3742656.828	P_016	4.19E-04	0.00	0.07		6.79E-08	
980117.176	3742676.828	P_017	3.82E-04	0.00	0.06		6.19E-08	
980117.176	3742696.828	P_018	3.51E-04	0.00	0.06		5.69E-08	
980117.176	3742716.828	P_019	3.25E-04	0.00	0.05		5.27E-08	
980117.176	3742736.828	P_020	3.01E-04	0.00	0.05		4.87E-08	
980137.176	3742656.828	P_021	4.73E-04	0.00	0.08		7.66E-08	
980137.176	3742676.828	P_022	4.30E-04	0.00	0.07		6.97E-08	
980137.176	3742696.828	P_023	3.94E-04	0.00	0.06		6.38E-08	
980137.176	3742716.828	P_024	3.63E-04	0.00	0.06		5.88E-08	
980137.176	3742736.828	P_025	3.34E-04	0.00	0.05		5.42E-08	
980157.176	3742696.828	P_026	4.44E-04	0.00	0.07		7.20E-08	
980157.176	3742716.828	P_027	4.07E-04	0.00	0.07		6.59E-08	
980177.176	3742716.828	P_028	4.57E-04	0.00	0.07		7.41E-08	
980089.9238	3741804.774	S_001	3.02E-04	0.00	0.01	7.30E-09		
980089.9238	3741824.774	S_002	3.42E-04	0.00	0.01	8.27E-09		
980089.9238	3741844.774	S_003	3.91E-04	0.00	0.01	9.45E-09		
980089.9238	3741864.774	S_004	4.51E-04	0.00	0.01	1.09E-08		
980089.9238	3741884.774	S_005	5.28E-04	0.00	0.01	1.28E-08		
980089.9238	3741904.774	S_006	6.27E-04	0.00	0.02	1.52E-08		
980089.9238	3741924.774	S_007	7.58E-04	0.00	0.02	1.83E-08		
980089.9238	3741944.774	S_008	9.37E-04	0.00	0.02	2.265E-08		
980089.9238	3741964.774	S_009	1.19E-03	0.00	0.03	2.8838E-08		
980089.9238	3741984.774	S_010	1.58E-03	0.00	0.04	3.8294E-08		
980089.9238	3742004.774	S_011	2.20E-03	0.00	0.05	5.3287E-08		
980089.9238	3742024.774	S_012	3.32E-03	0.00	0.08	8.0224E-08		
980109.9238	3741804.774	S_013	2.99E-04	0.00	0.01	7.2376E-09		
980109.9238	3741824.774	S_014	3.38E-04	0.00	0.01	8.1815E-09		
980109.9238	3741844.774	S_015	3.86E-04	0.00	0.01	9.3364E-09		
980109.9238	3741864.774	S_016	4.45E-04	0.00	0.01	1.0769E-08		
980109.9238	3741884.774	S_017	5.20E-04	0.00	0.01	1.2577E-08		
980109.9238	3741904.774	S_018	6.16E-04	0.00	0.01	1.4904E-08		
980109.9238	3741924.774	S_019	7.44E-04	0.00	0.02	1.7979E-08		
980109.9238	3741944.774	S_020	9.16E-04	0.00	0.02	2.2143E-08		
980109.9238	3741964.774	S_021	1.16E-03	0.00	0.03	2.7981E-08		
980109.9238	3741984.774	S_022	1.51E-03	0.00	0.04	3.655E-08		
980109.9238	3742004.774	S_023	2.07E-03	0.00	0.05	4.9938E-08		
980109.9238	3742024.774	S_024	3.02E-03	0.00	0.07	7.2939E-08		

980129.9238	3741784.774	S_025	2.65E-04	0.00	0.01	6.3971E-09
980129.9238	3741804.774	S_026	2.96E-04	0.00	0.01	7.1601E-09
980129.9238	3741824.774	S_027	3.34E-04	0.00	0.01	8.081E-09
980129.9238	3741844.774	S_028	3.81E-04	0.00	0.01	9.2046E-09
980129.9238	3741864.774	S_029	4.38E-04	0.00	0.01	1.0595E-08
980129.9238	3741884.774	S_030	5.10E-04	0.00	0.01	1.2342E-08
980129.9238	3741904.774	S_031	6.03E-04	0.00	0.01	1.4577E-08
980129.9238	3741924.774	S_032	7.24E-04	0.00	0.02	1.7499E-08
980129.9238	3741944.774	S_033	8.86E-04	0.00	0.02	2.1431E-08
980129.9238	3741964.774	S_034	1.11E-03	0.00	0.03	2.6866E-08
980129.9238	3741984.774	S_035	1.43E-03	0.00	0.03	3.469E-08
980129.9238	3742004.774	S_036	1.92E-03	0.00	0.05	4.6538E-08
980129.9238	3742024.774	S_037	2.74E-03	0.00	0.07	6.6143E-08
980149.9238	3741764.774	S_038	2.36E-04	0.00	0.01	5.7003E-09
980149.9238	3741784.774	S_039	2.62E-04	0.00	0.01	6.3257E-09
980149.9238	3741804.774	S_040	2.92E-04	0.00	0.01	7.0691E-09
980149.9238	3741824.774	S_041	3.29E-04	0.00	0.01	7.964E-09
980149.9238	3741844.774	S_042	3.74E-04	0.00	0.01	9.0511E-09
980149.9238	3741864.774	S_043	4.30E-04	0.00	0.01	1.0387E-08
980149.9238	3741884.774	S_044	4.99E-04	0.00	0.01	1.2055E-08
980149.9238	3741904.774	S_045	5.86E-04	0.00	0.01	1.4175E-08
980149.9238	3741924.774	S_046	7.00E-04	0.00	0.02	1.6923E-08
980149.9238	3741944.774	S_047	8.51E-04	0.00	0.02	2.0572E-08
980149.9238	3741964.774	S_048	1.06E-03	0.00	0.03	2.5554E-08
980149.9238	3741984.774	S_049	1.35E-03	0.00	0.03	3.2597E-08
980149.9238	3742004.774	S_050	1.78E-03	0.00	0.04	4.3038E-08
980149.9238	3742024.774	S_051	2.47E-03	0.00	0.06	5.9672E-08
980149.9238	3742044.774	S_052	3.68E-03	0.00	0.09	8.8869E-08
980169.9238	3741744.774	S_053	2.11E-04	0.00	0.01	5.1133E-09
980169.9238	3741764.774	S_054	2.33E-04	0.00	0.01	5.6319E-09
980169.9238	3741784.774	S_055	2.58E-04	0.00	0.01	6.2408E-09
980169.9238	3741804.774	S_056	2.88E-04	0.00	0.01	6.9613E-09
980169.9238	3741824.774	S_057	3.24E-04	0.00	0.01	7.8245E-09
980169.9238	3741844.774	S_058	3.67E-04	0.00	0.01	8.8674E-09
980169.9238	3741864.774	S_059	4.19E-04	0.00	0.01	1.0142E-08
980169.9238	3741884.774	S_060	4.85E-04	0.00	0.01	1.1723E-08
980169.9238	3741904.774	S_061	5.67E-04	0.00	0.01	1.3714E-08
980169.9238	3741924.774	S_062	6.73E-04	0.00	0.02	1.6268E-08
980169.9238	3741944.774	S_063	8.11E-04	0.00	0.02	1.9618E-08
980169.9238	3741964.774	S_064	9.98E-04	0.00	0.02	2.4122E-08
980169.9238	3741984.774	S_065	1.26E-03	0.00	0.03	3.0372E-08
980169.9238	3742004.774	S_066	1.63E-03	0.00	0.04	3.9435E-08
980169.9238	3742024.774	S_067	2.21E-03	0.00	0.05	5.3355E-08
980169.9238	3742044.774	S_068	3.19E-03	0.00	0.08	7.7018E-08
980189.9238	3741744.774	S_069	2.09E-04	0.00	0.01	5.0459E-09
980189.9238	3741764.774	S_070	2.29E-04	0.00	0.01	5.5489E-09
980189.9238	3741784.774	S_071	2.54E-04	0.00	0.01	6.1378E-09
980189.9238	3741804.774	S_072	2.83E-04	0.00	0.01	6.8327E-09
980189.9238	3741824.774	S_073	3.17E-04	0.00	0.01	7.6594E-09
980189.9238	3741844.774	S_074	3.58E-04	0.00	0.01	8.6537E-09
980189.9238	3741864.774	S_075	4.08E-04	0.00	0.01	9.8628E-09
980189.9238	3741884.774	S_076	4.69E-04	0.00	0.01	1.1349E-08
980189.9238	3741904.774	S_077	5.46E-04	0.00	0.01	1.3203E-08
980189.9238	3741924.774	S_078	6.43E-04	0.00	0.02	1.5556E-08
980189.9238	3741944.774	S_079	7.69E-04	0.00	0.02	1.8602E-08
980189.9238	3741964.774	S_080	9.36E-04	0.00	0.02	2.263E-08
980189.9238	3741984.774	S_081	1.16E-03	0.00	0.03	2.8123E-08
980189.9238	3742004.774	S_082	1.49E-03	0.00	0.04	3.5911E-08
980189.9238	3742024.774	S_083	1.97E-03	0.00	0.05	4.7534E-08
980189.9238	3742044.774	S_084	2.75E-03	0.00	0.07	6.6467E-08
980209.9238	3741724.774	S_085	1.88E-04	0.00	0.00	4.5454E-09
980209.9238	3741744.774	S_086	2.05E-04	0.00	0.00	4.9646E-09
980209.9238	3741764.774	S_087	2.25E-04	0.00	0.01	5.4503E-09
980209.9238	3741784.774	S_088	2.49E-04	0.00	0.01	6.0171E-09
980209.9238	3741804.774	S_089	2.76E-04	0.00	0.01	6.6816E-09
980209.9238	3741824.774	S_090	3.09E-04	0.00	0.01	7.4697E-09
980209.9238	3741844.774	S_091	3.48E-04	0.00	0.01	8.411E-09
980209.9238	3741864.774	S_092	3.95E-04	0.00	0.01	9.548E-09
980209.9238	3741884.774	S_093	4.52E-04	0.00	0.01	1.0936E-08
980209.9238	3741904.774	S_094	5.23E-04	0.00	0.01	1.2651E-08
980209.9238	3741924.774	S_095	6.12E-04	0.00	0.01	1.4802E-08
980209.9238	3741944.774	S_096	7.26E-04	0.00	0.02	1.755E-08
980209.9238	3741964.774	S_097	8.74E-04	0.00	0.02	2.1133E-08
980209.9238	3741984.774	S_098	1.07E-03	0.00	0.03	2.5937E-08
980209.9238	3742004.774	S_099	1.35E-03	0.00	0.03	3.2606E-08

980209.9238	3742024.774	S_100	1.75E-03	0.00	0.04	4.2306E-08
980209.9238	3742044.774	S_101	2.38E-03	0.00	0.06	5.7449E-08
980209.9238	3742064.774	S_102	3.48E-03	0.00	0.08	8.4121E-08
980229.9238	3741704.774	S_103	1.70E-04	0.00	0.00	4.1131E-09
980229.9238	3741724.774	S_104	1.85E-04	0.00	0.00	4.4656E-09
980229.9238	3741744.774	S_105	2.01E-04	0.00	0.00	4.8701E-09
980229.9238	3741764.774	S_106	2.21E-04	0.00	0.01	5.3362E-09
980229.9238	3741784.774	S_107	2.43E-04	0.00	0.01	5.8774E-09
980229.9238	3741804.774	S_108	2.69E-04	0.00	0.01	6.5106E-09
980229.9238	3741824.774	S_109	3.00E-04	0.00	0.01	7.2558E-09
980229.9238	3741844.774	S_110	3.37E-04	0.00	0.01	8.1415E-09
980229.9238	3741864.774	S_111	3.81E-04	0.00	0.01	9.2034E-09
980229.9238	3741884.774	S_112	4.34E-04	0.00	0.01	1.049E-08
980229.9238	3741904.774	S_113	4.99E-04	0.00	0.01	1.2065E-08
980229.9238	3741924.774	S_114	5.80E-04	0.00	0.01	1.4019E-08
980229.9238	3741944.774	S_115	6.82E-04	0.00	0.02	1.6485E-08
980229.9238	3741964.774	S_116	8.13E-04	0.00	0.02	1.9659E-08
980229.9238	3741984.774	S_117	9.86E-04	0.00	0.02	2.3846E-08
980229.9238	3742004.774	S_118	1.22E-03	0.00	0.03	2.9543E-08
980229.9238	3742024.774	S_119	1.56E-03	0.00	0.04	3.7626E-08
980229.9238	3742044.774	S_120	2.06E-03	0.00	0.05	4.9774E-08
980229.9238	3742064.774	S_121	2.88E-03	0.00	0.07	6.9651E-08
980249.9238	3741704.774	S_122	1.67E-04	0.00	0.00	4.0356E-09
980249.9238	3741724.774	S_123	1.81E-04	0.00	0.00	4.3747E-09
980249.9238	3741744.774	S_124	1.97E-04	0.00	0.00	4.7623E-09
980249.9238	3741764.774	S_125	2.15E-04	0.00	0.01	5.2076E-09
980249.9238	3741784.774	S_126	2.37E-04	0.00	0.01	5.7219E-09
980249.9238	3741804.774	S_127	2.61E-04	0.00	0.01	6.3199E-09
980249.9238	3741824.774	S_128	2.90E-04	0.00	0.01	7.0212E-09
980249.9238	3741844.774	S_129	3.25E-04	0.00	0.01	7.8491E-09
980249.9238	3741864.774	S_130	3.65E-04	0.00	0.01	8.8346E-09
980249.9238	3741884.774	S_131	4.14E-04	0.00	0.01	1.0018E-08
980249.9238	3741904.774	S_132	4.74E-04	0.00	0.01	1.1455E-08
980249.9238	3741924.774	S_133	5.47E-04	0.00	0.01	1.3222E-08
980249.9238	3741944.774	S_134	6.38E-04	0.00	0.02	1.5424E-08
980249.9238	3741964.774	S_135	7.54E-04	0.00	0.02	1.8223E-08
980249.9238	3741984.774	S_136	9.04E-04	0.00	0.02	2.186E-08
980249.9238	3742004.774	S_137	1.10E-03	0.00	0.03	2.6712E-08
980249.9238	3742024.774	S_138	1.38E-03	0.00	0.03	3.3428E-08
980249.9238	3742044.774	S_139	1.79E-03	0.00	0.04	4.3168E-08
980249.9238	3742064.774	S_140	2.41E-03	0.00	0.06	5.8199E-08
980249.9238	3742084.774	S_141	3.46E-03	0.00	0.08	8.3636E-08
980269.9238	3741684.774	S_142	1.51E-04	0.00	0.00	3.6627E-09
980269.9238	3741704.774	S_143	1.63E-04	0.00	0.00	3.9498E-09
980269.9238	3741724.774	S_144	1.77E-04	0.00	0.00	4.2741E-09
980269.9238	3741744.774	S_145	1.92E-04	0.00	0.00	4.643E-09
980269.9238	3741764.774	S_146	2.10E-04	0.00	0.01	5.0658E-09
980269.9238	3741784.774	S_147	2.30E-04	0.00	0.01	5.5514E-09
980269.9238	3741804.774	S_148	2.53E-04	0.00	0.01	6.1134E-09
980269.9238	3741824.774	S_149	2.80E-04	0.00	0.01	6.7686E-09
980269.9238	3741844.774	S_150	3.12E-04	0.00	0.01	7.5375E-09
980269.9238	3741864.774	S_151	3.49E-04	0.00	0.01	8.4457E-09
980269.9238	3741884.774	S_152	3.94E-04	0.00	0.01	9.5283E-09
980269.9238	3741904.774	S_153	4.48E-04	0.00	0.01	1.0831E-08
980269.9238	3741924.774	S_154	5.14E-04	0.00	0.01	1.2417E-08
980269.9238	3741944.774	S_155	5.95E-04	0.00	0.01	1.4374E-08
980269.9238	3741964.774	S_156	6.96E-04	0.00	0.02	1.683E-08
980269.9238	3741984.774	S_157	8.26E-04	0.00	0.02	1.9971E-08
980269.9238	3742004.774	S_158	9.96E-04	0.00	0.02	2.4088E-08
980269.9238	3742024.774	S_159	1.23E-03	0.00	0.03	2.965E-08
980269.9238	3742044.774	S_160	1.55E-03	0.00	0.04	3.7463E-08
980269.9238	3742064.774	S_161	2.03E-03	0.00	0.05	4.9003E-08
980269.9238	3742084.774	S_162	2.78E-03	0.00	0.07	6.7152E-08
980269.9238	3742104.774	S_163	4.06E-03	0.00	0.10	9.8183E-08
980289.9238	3741684.774	S_164	1.48E-04	0.00	0.00	3.5825E-09
980289.9238	3741704.774	S_165	1.59E-04	0.00	0.00	3.8562E-09
980289.9238	3741724.774	S_166	1.72E-04	0.00	0.00	4.1654E-09
980289.9238	3741744.774	S_167	1.87E-04	0.00	0.00	4.5153E-09
980289.9238	3741764.774	S_168	2.03E-04	0.00	0.00	4.9137E-09
980289.9238	3741784.774	S_169	2.22E-04	0.00	0.01	5.3698E-09
980289.9238	3741804.774	S_170	2.44E-04	0.00	0.01	5.8952E-09
980289.9238	3741824.774	S_171	2.69E-04	0.00	0.01	6.503E-09
980289.9238	3741844.774	S_172	2.98E-04	0.00	0.01	7.2123E-09
980289.9238	3741864.774	S_173	3.33E-04	0.00	0.01	8.0444E-09
980289.9238	3741884.774	S_174	3.73E-04	0.00	0.01	9.028E-09

980289.9238	3741904.774	S_175	4.22E-04	0.00	0.01	1.0201E-08
980289.9238	3741924.774	S_176	4.80E-04	0.00	0.01	1.1617E-08
980289.9238	3741944.774	S_177	5.52E-04	0.00	0.01	1.3346E-08
980289.9238	3741964.774	S_178	6.41E-04	0.00	0.02	1.5487E-08
980289.9238	3741984.774	S_179	7.52E-04	0.00	0.02	1.8186E-08
980289.9238	3742004.774	S_180	8.96E-04	0.00	0.02	2.166E-08
980289.9238	3742024.774	S_181	1.09E-03	0.00	0.03	2.6251E-08
980289.9238	3742044.774	S_182	1.34E-03	0.00	0.03	3.2515E-08
980289.9238	3742064.774	S_183	1.71E-03	0.00	0.04	4.1417E-08
980289.9238	3742084.774	S_184	2.26E-03	0.00	0.05	5.4687E-08
980289.9238	3742104.774	S_185	3.13E-03	0.00	0.08	7.5591E-08
980289.9238	3742124.774	S_186	4.57E-03	0.00	0.11	1.1061E-07
980309.9238	3741684.774	S_187	1.45E-04	0.00	0.00	3.4972E-09
980309.9238	3741704.774	S_188	1.55E-04	0.00	0.00	3.7576E-09
980309.9238	3741724.774	S_189	1.68E-04	0.00	0.00	4.0505E-09
980309.9238	3741744.774	S_190	1.81E-04	0.00	0.00	4.3805E-09
980309.9238	3741764.774	S_191	1.97E-04	0.00	0.00	4.7549E-09
980309.9238	3741784.774	S_192	2.14E-04	0.00	0.01	5.1809E-09
980309.9238	3741804.774	S_193	2.34E-04	0.00	0.01	5.6683E-09
980309.9238	3741824.774	S_194	2.58E-04	0.00	0.01	6.2294E-09
980309.9238	3741844.774	S_195	2.85E-04	0.00	0.01	6.8798E-09
980309.9238	3741864.774	S_196	3.16E-04	0.00	0.01	7.6371E-09
980309.9238	3741884.774	S_197	3.53E-04	0.00	0.01	8.5255E-09
980309.9238	3741904.774	S_198	3.96E-04	0.00	0.01	9.5767E-09
980309.9238	3741924.774	S_199	4.48E-04	0.00	0.01	1.0833E-08
980309.9238	3741944.774	S_200	5.11E-04	0.00	0.01	1.235E-08
980309.9238	3741964.774	S_201	5.87E-04	0.00	0.01	1.4205E-08
980309.9238	3741984.774	S_202	6.83E-04	0.00	0.02	1.6511E-08
980309.9238	3742004.774	S_203	8.04E-04	0.00	0.02	1.943E-08
980309.9238	3742024.774	S_204	9.60E-04	0.00	0.02	2.3205E-08
980309.9238	3742044.774	S_205	1.17E-03	0.00	0.03	2.8224E-08
980309.9238	3742064.774	S_206	1.45E-03	0.00	0.04	3.5118E-08
980309.9238	3742084.774	S_207	1.86E-03	0.00	0.04	4.4952E-08
980309.9238	3742104.774	S_208	2.46E-03	0.00	0.06	5.9552E-08
980309.9238	3742124.774	S_209	3.40E-03	0.00	0.08	8.2128E-08
980309.9238	3742144.774	S_210	4.91E-03	0.00	0.12	1.1877E-07
980329.9238	3741684.774	S_211	1.41E-04	0.00	0.00	3.4099E-09
980329.9238	3741704.774	S_212	1.51E-04	0.00	0.00	3.6577E-09
980329.9238	3741724.774	S_213	1.63E-04	0.00	0.00	3.934E-09
980329.9238	3741744.774	S_214	1.76E-04	0.00	0.00	4.2436E-09
980329.9238	3741764.774	S_215	1.90E-04	0.00	0.00	4.5928E-09
980329.9238	3741784.774	S_216	2.06E-04	0.00	0.00	4.9883E-09
980329.9238	3741804.774	S_217	2.25E-04	0.00	0.01	5.4383E-09
980329.9238	3741824.774	S_218	2.46E-04	0.00	0.01	5.9532E-09
980329.9238	3741844.774	S_219	2.71E-04	0.00	0.01	6.5454E-09
980329.9238	3741864.774	S_220	2.99E-04	0.00	0.01	7.2306E-09
980329.9238	3741884.774	S_221	3.32E-04	0.00	0.01	8.0288E-09
980329.9238	3741904.774	S_222	3.71E-04	0.00	0.01	8.9656E-09
980329.9238	3741924.774	S_223	4.17E-04	0.00	0.01	1.0074E-08
980329.9238	3741944.774	S_224	4.71E-04	0.00	0.01	1.1398E-08
980329.9238	3741964.774	S_225	5.37E-04	0.00	0.01	1.2995E-08
980329.9238	3741984.774	S_226	6.19E-04	0.00	0.01	1.496E-08
980329.9238	3742004.774	S_227	7.20E-04	0.00	0.02	1.7404E-08
980329.9238	3742024.774	S_228	8.48E-04	0.00	0.02	2.0505E-08
980329.9238	3742044.774	S_229	1.01E-03	0.00	0.02	2.4527E-08
980329.9238	3742064.774	S_230	1.24E-03	0.00	0.03	2.9893E-08
980329.9238	3742084.774	S_231	1.54E-03	0.00	0.04	3.7272E-08
980329.9238	3742104.774	S_232	1.97E-03	0.00	0.05	4.7731E-08
980329.9238	3742124.774	S_233	2.60E-03	0.00	0.06	6.295E-08
980329.9238	3742144.774	S_234	3.54E-03	0.00	0.09	8.5505E-08
980329.9238	3742164.774	S_235	4.92E-03	0.00	0.12	1.1895E-07
980349.9238	3741744.774	S_236	1.70E-04	0.00	0.00	4.1097E-09
980349.9238	3741764.774	S_237	1.83E-04	0.00	0.00	4.4328E-09
980349.9238	3741784.774	S_238	1.98E-04	0.00	0.00	4.7971E-09
980349.9238	3741804.774	S_239	2.15E-04	0.00	0.01	5.2104E-09
980349.9238	3741824.774	S_240	2.35E-04	0.00	0.01	5.6799E-09
980349.9238	3741844.774	S_241	2.57E-04	0.00	0.01	6.2168E-09
980349.9238	3741864.774	S_242	2.83E-04	0.00	0.01	6.8338E-09
980349.9238	3741884.774	S_243	3.12E-04	0.00	0.01	7.5475E-09
980349.9238	3741904.774	S_244	3.47E-04	0.00	0.01	8.3783E-09
980349.9238	3741924.774	S_245	3.87E-04	0.00	0.01	9.3531E-09
980349.9238	3741944.774	S_246	4.35E-04	0.00	0.01	1.0506E-08
980349.9238	3741964.774	S_247	4.91E-04	0.00	0.01	1.1882E-08
980349.9238	3741984.774	S_248	5.60E-04	0.00	0.01	1.3546E-08
980349.9238	3742004.774	S_249	6.45E-04	0.00	0.02	1.5588E-08

980349.9238	3742024.774	S_250	7.50E-04	0.00	0.02	1.8133E-08	
980349.9238	3742044.774	S_251	8.84E-04	0.00	0.02	2.1365E-08	
980349.9238	3742064.774	S_252	1.06E-03	0.00	0.03	2.5566E-08	
980349.9238	3742084.774	S_253	1.29E-03	0.00	0.03	3.1163E-08	
980349.9238	3742104.774	S_254	1.60E-03	0.00	0.04	3.8806E-08	
980349.9238	3742124.774	S_255	2.04E-03	0.00	0.05	4.9441E-08	
980349.9238	3742144.774	S_256	2.66E-03	0.00	0.06	6.4351E-08	
980349.9238	3742164.774	S_257	3.51E-03	0.00	0.08	8.4939E-08	
980369.9238	3741824.774	S_258	2.24E-04	0.00	0.01	5.4163E-09	
980369.9238	3741844.774	S_259	2.44E-04	0.00	0.01	5.9003E-09	
980369.9238	3741864.774	S_260	2.67E-04	0.00	0.01	6.4525E-09	
980369.9238	3741884.774	S_261	2.93E-04	0.00	0.01	7.0876E-09	
980369.9238	3741904.774	S_262	3.23E-04	0.00	0.01	7.8211E-09	
980369.9238	3741924.774	S_263	3.59E-04	0.00	0.01	8.6757E-09	
980369.9238	3741944.774	S_264	4.00E-04	0.00	0.01	9.676E-09	
980369.9238	3741964.774	S_265	4.49E-04	0.00	0.01	1.0858E-08	
980369.9238	3741984.774	S_266	5.07E-04	0.00	0.01	1.2268E-08	
980369.9238	3742004.774	S_267	5.78E-04	0.00	0.01	1.3973E-08	
980369.9238	3742024.774	S_268	6.64E-04	0.00	0.02	1.6064E-08	
980369.9238	3742044.774	S_269	7.72E-04	0.00	0.02	1.867E-08	
980369.9238	3742064.774	S_270	9.09E-04	0.00	0.02	2.1985E-08	
980369.9238	3742084.774	S_271	1.09E-03	0.00	0.03	2.6288E-08	
980369.9238	3742104.774	S_272	1.32E-03	0.00	0.03	3.1994E-08	
980369.9238	3742124.774	S_273	1.64E-03	0.00	0.04	3.9655E-08	
980369.9238	3742144.774	S_274	2.07E-03	0.00	0.05	4.9974E-08	
980389.9238	3741884.774	S_275	2.75E-04	0.00	0.01	6.6561E-09	
980389.9238	3741904.774	S_276	3.02E-04	0.00	0.01	7.3006E-09	
980389.9238	3741924.774	S_277	3.33E-04	0.00	0.01	8.0463E-09	
980389.9238	3741944.774	S_278	3.69E-04	0.00	0.01	8.9123E-09	
980389.9238	3741964.774	S_279	4.11E-04	0.00	0.01	9.9259E-09	
980389.9238	3741984.774	S_280	4.60E-04	0.00	0.01	1.1121E-08	
980389.9238	3742004.774	S_281	5.19E-04	0.00	0.01	1.2546E-08	
980389.9238	3742024.774	S_282	5.90E-04	0.00	0.01	1.4269E-08	
980389.9238	3742044.774	S_283	6.78E-04	0.00	0.02	1.6383E-08	
980389.9238	3742064.774	S_284	7.87E-04	0.00	0.02	1.9023E-08	
980389.9238	3742084.774	S_285	9.26E-04	0.00	0.02	2.2378E-08	
980389.9238	3742104.774	S_286	1.10E-03	0.00	0.03	2.6712E-08	
980389.9238	3742124.774	S_287	1.34E-03	0.00	0.03	3.2376E-08	
980409.9238	3741944.774	S_288	3.40E-04	0.00	0.01	8.2156E-09	
980409.9238	3741964.774	S_289	3.76E-04	0.00	0.01	9.084E-09	
980409.9238	3741984.774	S_290	4.18E-04	0.00	0.01	1.0097E-08	
980409.9238	3742004.774	S_291	4.67E-04	0.00	0.01	1.1291E-08	
980409.9238	3742024.774	S_292	5.26E-04	0.00	0.01	1.2718E-08	
980409.9238	3742044.774	S_293	5.97E-04	0.00	0.01	1.4444E-08	
980409.9238	3742064.774	S_294	6.85E-04	0.00	0.02	1.6565E-08	
980409.9238	3742084.774	S_295	7.95E-04	0.00	0.02	1.9213E-08	
980409.9238	3742104.774	S_296	9.33E-04	0.00	0.02	2.2567E-08	
980409.9238	3742124.774	S_297	1.11E-03	0.00	0.03	2.6857E-08	
980429.9238	3741964.774	S_298	3.44E-04	0.00	0.01	8.3295E-09	
980429.9238	3741984.774	S_299	3.80E-04	0.00	0.01	9.1879E-09	
980429.9238	3742004.774	S_300	4.22E-04	0.00	0.01	1.0193E-08	
980429.9238	3742024.774	S_301	4.71E-04	0.00	0.01	1.1379E-08	
980429.9238	3742044.774	S_302	5.29E-04	0.00	0.01	1.2797E-08	
980429.9238	3742064.774	S_303	6.00E-04	0.00	0.01	1.4517E-08	
980429.9238	3742084.774	S_304	6.88E-04	0.00	0.02	1.6635E-08	
980429.9238	3742104.774	S_305	7.97E-04	0.00	0.02	1.9274E-08	
980449.9238	3742004.774	S_306	3.82E-04	0.00	0.01	9.2324E-09	
980449.9238	3742024.774	S_307	4.23E-04	0.00	0.01	1.0223E-08	
980449.9238	3742044.774	S_308	4.71E-04	0.00	0.01	1.1397E-08	
980449.9238	3742064.774	S_309	5.30E-04	0.00	0.01	1.2807E-08	
980449.9238	3742084.774	S_310	6.01E-04	0.00	0.01	1.4522E-08	
980469.9238	3742024.774	S_311	3.82E-04	0.00	0.01	9.2276E-09	
980469.9238	3742044.774	S_312	4.22E-04	0.00	0.01	1.0205E-08	
980469.9238	3742064.774	S_313	4.70E-04	0.00	0.01	1.1371E-08	
980469.9238	3742084.774	S_314	5.28E-04	0.00	0.01	1.2777E-08	
980489.9238	3742044.774	S_315	3.80E-04	0.00	0.01	9.1898E-09	
980489.9238	3742064.774	S_316	4.20E-04	0.00	0.01	1.0161E-08	
980404.6	3742206.17	W_001	2.57E-03	0.00	0.01		1.327E-08
980395.7	3742240.27	W_002	3.64E-03	0.00	0.02		1.882E-08
980504.67	3742161.69	W_003	6.84E-04	0.00	0.00		3.5352E-09
980443.89	3742297.35	W_004	2.46E-03	0.00	0.01		1.2732E-08
980480.95	3742379.63	W_005	1.89E-03	0.00	0.01		9.7715E-09
980519.5	3742227.67	W_006	9.30E-04	0.00	0.00		4.8054E-09
980546.18	3742255.09	W_007	8.69E-04	0.00	0.00		4.4872E-09
980555.82	3742291.42	W_008	9.44E-04	0.00	0.00		4.8773E-09

980578.06	3742308.47	W_009	8.55E-04	0.00	0.00	4.4189E-09
980601.04	3742345.53	W_010	8.18E-04	0.00	0.00	4.226E-09
980500.96	3742427.81	W_011	1.60E-03	0.00	0.01	8.288E-09
980518.78	3742452.39	W_012	1.41E-03	0.00	0.01	7.3037E-09
980625.18	3742376.52	W_013	7.56E-04	0.00	0.00	3.9066E-09
980640.01	3742414.89	W_014	7.39E-04	0.00	0.00	3.8181E-09
980561.52	3742496.87	W_015	1.09E-03	0.00	0.01	5.6243E-09
980665.3	3742472.45	W_016	6.82E-04	0.00	0.00	3.5214E-09
980513.48	3742577.06	W_017	1.18E-03	0.00	0.01	6.0928E-09
979899.3965	3742334.47	W_018	5.87E-04	0.00	0.00	3.0313E-09
979936.77	3742099.68	W_019	1.54E-03	0.00	0.01	7.9619E-09
979761.2358	3742285.815	W_020	2.96E-04	0.00	0.00	1.5304E-09
979733.51	3742181.86	W_021	2.94E-04	0.00	0.00	1.5185E-09
979924.14	3742077.7	W_022	1.39E-03	0.00	0.01	7.1664E-09
979822.0383	3741883.417	W_023	3.94E-04	0.00	0.00	2.0374E-09
979674.08	3742101.64	W_024	2.51E-04	0.00	0.00	1.2955E-09
979851.6058	3742394.377	W_025	3.92E-04	0.00	0.00	2.0229E-09
979873.7774	3742356.017	W_026	4.80E-04	0.00	0.00	2.479E-09
979586.8239	3742234.426	W_027	1.51E-04	0.00	0.00	7.7921E-10
979600.1988	3742183.358	W_028	1.71E-04	0.00	0.00	8.8112E-10
979550.3467	3742193.086	W_029	1.43E-04	0.00	0.00	7.3803E-10
979618.4374	3742121.347	W_030	1.98E-04	0.00	0.00	1.0222E-09
979858.8058	3741944.734	W_031	5.78E-04	0.00	0.00	2.9866E-09
979760.8922	3741849.215	W_032	2.92E-04	0.00	0.00	1.5106E-09

BIOLOGICAL RESOURCE EVALUATION
FOR
TUSTIN UNIFIED SCHOOL DISTRICT EDUCATIONAL CENTER PROJECT,
CITY OF TUSTIN,
ORANGE COUNTY, CALIFORNIA

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Environmental Enterprise Solutions

September 2, 2025

CERTIFICATION STATEMENT

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this report, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

September 2, 2025	Sloane Sanchez
Date	**Sloane Sanchez** Senior Biologist
September 2, 2025	
Date	**Ash Walker** Staff Biologist
September 2, 2025	R. Austin Isakson
Date	**R. Austin Isakson** Associate Biologist

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SECTION 1. INTRODUCTION

HANA Resources, Inc. (HANA) was retained by PlaceWorks to prepare this Biological Resources Evaluation (BRE) Report for the proposed Project. Following completion of the reconnaissance-level biological evaluation, HANA prepared this BRE that: 1) summarized existing conditions; 2) assessed the potential presence of sensitive biological resources; 3) analyzed the potential impacts on those resources from project development; 4) recommended, as appropriate, best management practices (BMPs), avoidance and protection measures, and mitigation measures to avoid, eliminate and/or reduce environmental impacts to less than significant levels; and 5) identified biological permits or approvals that the project may need. The BRE includes: 1) methods and results of the literature review and field surveys; 2) figures depicting the size and location of plant communities and other sensitive biological resources; 3) a complete flora and fauna compendium; and 4) site photographs.

1.1. SITE LOCATION

The site is located within the former boundaries of the decommissioned Marine Corps Air Station (MCAS) Tustin, in the City of Tustin, Orange County, CA and covers approximately 9 acres (**Exhibit I,** *Project Location*). The parcel lies on the southwest corner of Legacy Road and Valencia Avenue and is on the APNs 430-391-37, 430-391-38, 430-391-74, 430-391-76, 430-391-91, 430-391-92, and 431-391-93 (**Exhibit II,** *Project Area*). The site is located on the United States Geological Survey (USGS) Tustin Quadrangle, 7.5-Minute Topographic map. The surface elevation of the site ranges from approximately 55 to 65 feet above mean sea level (MSL). The site is located within Section 28 in Township 5 South-Range 9 West, San Bernardino Meridian.

1.2. PROJECT DESCRIPTION

The proposed project is for the construction of a new education center that will house Tustin Unified School District (TUSD) offices, an outdoor community event space, and 256 parking stalls. The project site is within the Tustin Legacy Specific Plan Area, Neighborhood D. Part of the project site will be reserved for future development. No classroom or student use is proposed (**Exhibit III,** *Preliminary Site Plan*).

Exhibit I: Project Location



Exhibit II: Project Area

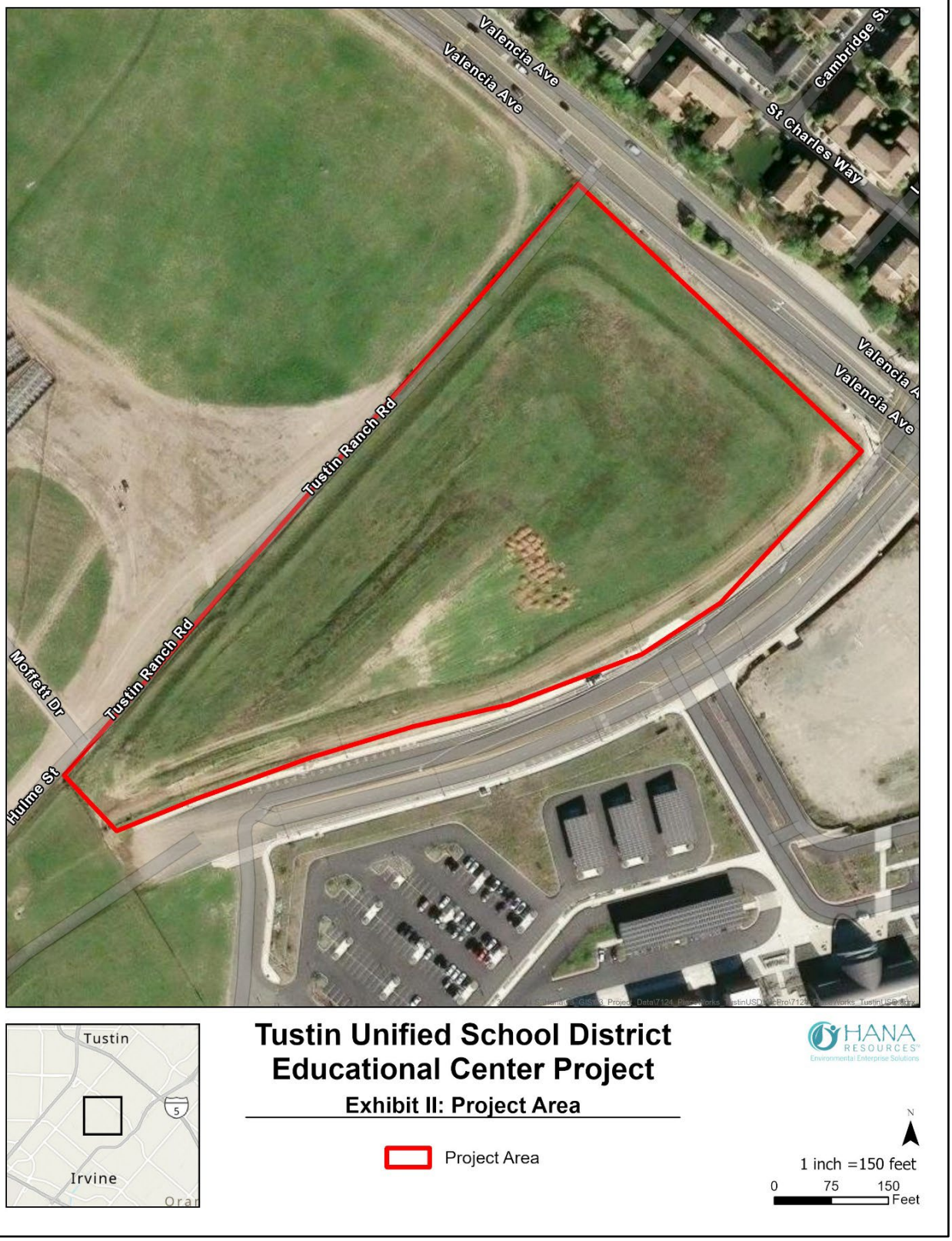


Exhibit IIII: Preliminary Site Plan



SECTION 2. REGULATORY OVERVIEW

2.1. Federal Statutes, Regulations and Executive Orders

Endangered Species Act (ESA)

The federal Endangered Species Act of 1973 (Title 16, United States Code [U.S.C.] §§ 1531-1543) (ESA), as amended, designates and provides for protection of listed threatened and endangered plant and animal species, and their critical habitat. The US Fish and Wildlife Service (USFWS), in the Department of the Interior, and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NMFS), in the Department of Commerce, share responsibility for administration of the ESA. These responsibilities include listing and delisting species, designating critical habitat, and formulating recovery plans. The USFWS has primary responsibility for terrestrial and freshwater organisms, while the responsibilities of NMFS are mainly marine wildlife.

Section 9 (Prohibited Acts)

Once a species is listed, section 9 of the ESA makes it unlawful for any person, including private and public entities, to "take" species listed as endangered or without a permit issued pursuant to section 10 or an incidental take statement issued pursuant to section 7. Section 9 defines "take" as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct." The term "harm" is defined as "an act which actually kills or injures wildlife. Such an act may include substantial habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering."

ESA section 9's take prohibitions apply to listed wildlife and fish species, but not to plants. Endangered plants are not protected from take, although it is unlawful to remove, possess, or maliciously damage or destroy them on federal lands. Removing or damaging listed plants on state and private lands in knowing violation of state law, or in the course of violating a state criminal trespass law, also is illegal under the ESA.

Section 10 (Incidental Take Permits and Habitat Conservation Plans)

An incidental take permit pursuant to section 10(a)(1)(B) is required when non-Federal, otherwise lawful activities, including lawful project development, will result in take of threatened or endangered wildlife. Under this provision, the USFWS and/or NMFS may, where appropriate, authorize the taking of federally listed wildlife or fish if such taking occurs incidentally during otherwise legal activities. Section 10(a)(2)(B) requires an application for an incidental take permit to include a Habitat Conservation Plan (HCP). The purpose of the habitat conservation planning process associated with the permit is to ensure there is adequate avoidance, minimization and mitigation measures to address the effects of the authorized incidental take. Section 10 provides a clear regulatory mechanism to permit the incidental take of federally listed fish and wildlife species by private interests and non-Federal governmental agencies.

Migratory Bird Treaty Act (MBTA)

The Migratory Bird Treaty Act (MBTA) of 1918 (Title 16, U.S.C. sections 703 - 712), as amended, implements various treaties and conventions between the United States (U.S.) and Canada, Japan, Mexico and the former Soviet Union for the protection of migratory birds. The MBTA makes it unlawful to pursue, hunt, take, capture, kill, possess, sell, purchase, barter, import, export, or transport any migratory bird, or any part, nest, or egg or any such bird, unless authorized under a permit issued by the Secretary of the

Interior. Some regulatory exceptions apply. Take is defined in regulations implementing the MBTA as "to pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to carry out these activities." The MBTA prohibits the collection and destruction of a migratory bird, its nest, and birds or eggs contained in the nest. The USFWS' Migratory Bird Permit Memorandum (MBPM-2) dated April 15, 2003, clarifies that destruction of most unoccupied bird nests is permissible under the MBTA; exceptions include nests of federally listed threatened or endangered migratory birds, bald eagles, and golden eagles. Take under the MBTA does not include habitat destruction or alteration, as long as there is not a direct taking of birds, nests, eggs, or parts thereof. The USFWS has statutory authority and responsibility for enforcing the MBTA.

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (16 USC Section 668) provides for the protection of the bald eagle (the national emblem) and the golden eagle by prohibiting, except under certain specified conditions, the taking, possession and commerce of such birds. If compatible with the preservation of bald and golden eagles, the Secretary of the Interior may permit the taking, possession and transportation of bald and golden eagles and nests for scientific or religious purposes, or for the protection of wildlife, agricultural or other interests. The Secretary of the Interior may authorize the take of golden eagle nests, which interfere with resource development or recovery operations. Bald eagles may not be taken for any purpose unless the Secretary issues a permit prior to the taking.

Clean Water Act (CWA)

The federal Clean Water Act (33 U.S.C. §§ 1251-1376) (CWA) is the principal federal law governing pollution control and water quality of the nation's waterways. It establishes the basic structure for regulating discharges of pollutants into "Waters of the United States" (Waters of the U.S.) and for regulating water quality and establishing water quality standards for surface waters. Sections 401, 402, and 404 of the CWA are pertinent to surface and coastal, Waters of the U.S. For purposes of Section 404 permitting under the CWA, "Waters of the U.S.", are comprised of those wetland and non-wetland bodies of water that meet the criteria set forth in 33 Code of Federal Regulations (CFR) § 328.3, as interpreted by a number of court opinions and guidance, including Solid Waste Agency of Northern Cook County (SWANCC) v. U.S. Army Corps of Engineers, 531 U.S. 159 (2001) (SWANCC), consolidated cases Rapanos v. United States (Rapanos), and Carabell v. United States (Carabell), 547 U.S. 715 (2006), and joint guidance issued by USACE and United States Environmental Protection Agency (EPA) in light of judicial decisions, including the joint guidance memorandum regarding Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States and Carabell v. United States (December 12, 2008)(2008 Regulatory Guidance).

Section 404 – Discharge of Dredge and Fill Requirements

Section 404 of the CWA establishes a program to regulate the discharge of dredged or fill material into Waters of the U.S. The USACE implementing regulations define "dredged material" as material that is excavated or dredged from Waters of the U.S. The CWA implementing regulations define "fill material" as material placed in Waters of the U.S. where the material has the impact of either replacing any portion of Waters of the U.S. with dry land or changing the bottom elevation of any portion of a Waters of the U.S. Examples include discharges of rock, sand, soil, clay, plastics, construction debris, wood chips, overburden from mining or other excavation activities, and materials used to create any structure or infrastructure for development projects in Waters of the U.S.

Section 401 – Water Quality Certification

Although the CWA is a federal law, Section 401 of that law recognizes that states have the primary

authority and responsibility for setting surface water quality standards and requires the U.S. Army Corps of Engineers to obtain a state certification that their permits for discharge or dredge and fill material do not violate state water quality standards. Section 401 of the CWA requires every applicant for a Section 404 permit resulting in any discharge of dredge or fill material into Waters of the U.S. to provide a certification that any discharges will comply with the applicable state water quality standards set pursuant to the CWA and applicable state law.

2.2. State Statutes and Regulations

California Endangered Species Act (CESA)

The California Endangered Species Act (CESA) (California Fish and Game Code § 2050 et seq.) was enacted in 1984 to parallel the federal ESA and allows the Fish and Game Commission to designate species, including plants, as "threatened" or "endangered." The CESA states that all native species of fishes, amphibians, reptiles, birds, mammals, and plants, and their habitats, threatened with extinction and those experiencing a significant decline which, if not halted, would lead to a threatened or endangered designation, will be protected or preserved. Unlike the ESA, the CESA does not include listing provisions for invertebrate species.

CESA makes it illegal to import, export, take, possess, purchase, sell, or attempt to do any of those actions to species that are designated as threatened, endangered, or candidates for listing, unless permitted by CDFW. Section 2080 of the California Fish and Game Code prohibits take of any species that the Commission determines to be an endangered species or a threatened species. "Take" is defined in section 86 of the California Fish and Game Code as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill."

Under section 2081 of CESA, CDFW may permit take or possession of threatened, endangered, or candidate species for scientific, educational, or management purposes, and may also permit take of these species that is incidental to otherwise lawful activities if certain conditions are met. Some of the conditions for issuance of permits allowing incidental take are that the adverse effects of the take must be minimized and fully mitigated, adequate funding must be ensured for implementation of identified mitigation, and that the activity shall not jeopardize the continued existence of the listed species. CESA emphasizes early consultation to avoid potential impacts on candidate and listed endangered and threatened species, and to develop appropriate mitigation to offset project caused losses of listed species populations and their essential habitats.

California Fish and Game Code §§ 1600-1616

Pursuant to §§ 1600–1616 of the California Fish and Game Code, the CDFW regulates all substantial diversions, obstructions, or changes to the natural flow or the bed, channel, or bank of any river, stream, or lake, which provides habitat and supports fish or wildlife. CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation" (California Code of Regulations, Title 14, Division 1, Subdivision 1, Chapter 1, § 1.72). "Bank" means the slope or elevation of land that bounds the bed of the stream in a permanent or longstanding way, and that confines the stream water up to its highest level. "Lake" includes "natural lakes or man-made reservoirs."

Rivers, streams, lakes, and riparian vegetation that provide habitat for fish and wildlife species are subject to jurisdiction by the CDFW under §§ 1600-1616 of the California Fish and Game Code. Riparian areas are

lands adjacent to streams, lakes, and estuarine-marine shorelines. Section 2785(e) defines "riparian habitat" as lands which contain habitat which grows close to and which depends upon soil moisture from a nearby freshwater source. CDFW regulates the bed, bank to bank, as well as associated riparian vegetation, and fish and wildlife resources. CDFW has interpreted jurisdictional boundaries to be defined by the tops of stream banks (i.e., the limit of stream influence) and/or the limit of the canopy of riparian vegetation (outer drip line) that is hydrologically connected to river, stream, or lake, whichever is greatest. As a result, the area of CDFW jurisdiction is usually greater than the active channel and overlaps and extends beyond the USACE jurisdiction. Isolated wetlands not associated with a river, stream or lake are not protected under §§ 1600 et seq. of the California Fish and Game Code. In addition, CDFW does not have regulatory authority on Tribal Lands.

California Green Building Standards Code (CALGreen)

This code requires sustainable building practices that minimize environmental impacts, including habitat disruption. Relevant provisions include construction waste reduction (minimum 65% recycling/reuse), low-impact development standards, and site protection measures during construction.

2.3. Regional and Local Ordinances, Plans and Policies

California Fish and Game Code §§ 2800–2835 (NCCP Act): Central and Coastal Subregion Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP)

This regional conservation plan was developed in coordination with CDFW, USFWS, and the City of Tustin to balance regional development with the long-term protection of native habitats and listed or sensitive species. Projects within or adjacent to the NCCP area may require participation in the plan through payment of mitigation fees, preservation of habitat, or implementation of species-specific conservation measures. Compliance ensures streamlined permitting under CESA and ESA.

City of Tustin General Plan – Conservation and Open Space Element

This General Plan outlines policies for the conservation of biological resources, including native vegetation, sensitive species, and wildlife movement corridors. It includes goals to protect environmentally sensitive areas, open space networks, and natural habitats through environmentally responsible land use planning. Projects must demonstrate consistency with these policies during the environmental review process, particularly under the California Environmental Quality Act (CEQA). This includes conducting biological surveys, avoiding impacts to significant habitats, and implementing mitigation for unavoidable impacts to ensure no net loss of sensitive biological resources.

SECTION 3. METHODOLOGY

3.1. LITERATURE REVIEW

Prior to performing the field surveys, a desktop literature review was performed to review existing documentation relevant to the Biological Study Area (BSA). The BSA is defined as the site and a 500-foot buffer zone outside of but contiguous with the site. The most recent records of the Information for Planning and Consultation (IPaC) database, managed by the U.S. Fish and Wildlife Service (USFWS 2025); California Natural Diversity Database (CNDDB), managed by the California Department of Fish and Wildlife (CDFW 2025); and the California Native Plant Society's Electronic Inventory of Rare and Endangered Vascular Plants of California (CNPS 2025) were reviewed for the quadrangles containing Tustin, California USGS 7.5-minute quadrangle. These databases contain records of reported occurrences of federal- or state-listed as endangered or threatened species, proposed endangered or threatened species, former Federal Species of Concern (FSC), California Species of Special Concern (CSC), or otherwise special-status species or sensitive habitat that may occur within or in the immediate vicinity of the BSA.

3.2. SOILS

Soil maps for the site were referenced online to determine the types of soil found on the site from the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2025). Soils are determined in accordance with categories set forth by the U.S. Department of Agriculture (USDA) Soil Conservation Service and by referencing the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2025).

3.3. WETLANDS

The project boundary and its 500-foot buffer were referenced online to determine presence or absence of wetlands through USFWS's Natural Wetland Inventory (NWI) Wetland Mapper (USFWS 2025). The USFWS is the principal federal agency tasked with monitoring and providing information on the extent, status, characteristics, and functions of the country's wetlands, deepwater, and other aquatic habitats (USFWS 2025). This inventory follows the national standard definition of wetlands as outlined in Cowardin et al. 2nd edition (2013). Wetlands are then categorized based upon landscape, substrate, vegetation cover, and hydrologic regime and is known as the Cowardin system (Cowardin et al. 2013).

3.4. POTENTIAL FOR OCCURRENCE

3.4.1. Criteria

A vegetation community or special-status species is considered to potentially occur in a BSA if its known geographic range includes part of the BSA or an adjacent USGS 7.5-minute quadrangle and/or if the general habitat or environmental conditions (e.g., soil type, etc.) required for the species are present. The criteria for evaluating the potential for occurrence (PFO) on a site is presented in **Table 1**, *Criteria for Evaluating Special-Status Species Occurrences*.

Table 1. Criteria for Evaluating Special-Status Species Occurrences

Potential for Occurrence	Criteria
Absent	Species was not observed during focused surveys conducted at an appropriate time for identification of the species, or species is restricted to habitats or environmental conditions that do not occur within the site.
Low	Historical records for this species do not exist within the immediate vicinity of the site (approximately 5 miles), and/or habitats or environmental conditions needed to support the species are of poor quality.
Moderate	Either a historical record exists of the species within the immediate vicinity of the site (approximately 5 miles) and marginal habitat exists on the site, or the habitat requirements or environmental conditions associated with the species occur within the site, but no historical records exist within 5 miles of the site.
High	Both a historical record exists of the species within the site or its immediate vicinity (approximately 5 miles), and the habitat requirements and environmental conditions associated with the species occur within the site.
Present	Species was detected within the site at the time of the survey.

3.4.2. Status Codes

A list of abbreviations used to help determine the significance of biological resources potentially occurring in the BSA is provided in **Table 2**, *Abbreviations for Federal- and State-listed Special-status Species*.

Table 2. Abbreviations for Federal- and State-listed Special-status Species

Designation	Abbreviation	Explanation
Federal	**FE**	Federally listed; Endangered
	FT	Federally listed; Threatened
	FC	Federal Candidate for listing
	BGEPA	Bald and Golden Eagle Protection Act
State	**SE**	State listed; Endangered
	ST	State listed; Threatened
	SC-T	State Candidate for Threatened listing
	SC-E	State Candidate for Endangered listing
	RARE	State listed; Rare (Listed “Rare” animals have been re-designated as Threatened, but Rare plants have retained the Rare designation.)
	SC-RARE	State Candidate for Rare listing
	SSC	State Species of Special Concern
	SNC	State Natural Communities rarity ranking: 1-3 are considered sensitive, R is Rare
	BCC	Bird of Conservation Concern
CNPS CRPR	**List 1A**	Plants presumed to Extinct in California
	List 1B	Plants Rare and Endangered in California and throughout their range
	List 2	Plants Rare, Threatened or Endangered in California but more common elsewhere in their range
	List 3	Plants about which we need more information; a review list
	List 4	Plants of limited distribution; a watch list
CNPS CRPR Extensions	**0.1**	Seriously Endangered in California (greater than 80 percent of occurrences threatened/high degree and immediacy of threat)
	0.2	Fairly Endangered in California (20-80 percent of occurrences threatened)
	0.3	Not Very Endangered in California (less than 20 percent of occurrences threatened)

3.5. BIOLOGICAL RECONNAISSANCE-LEVEL SURVEY

The field survey was conducted within the BSA to identify any potential for occurrence of sensitive species, vegetation communities, or habitats to support sensitive wildlife species. This also includes vegetation mapping, plant identification, and opportunistic wildlife surveys. The survey was conducted by HANA Associate Biologist, Austin Isakson, and Staff Biologist, Ash Walker, on foot between 0720 and 1000 hours on March 25, 2025. Photographs of the BSA were recorded to document existing conditions (**Appendix A,** *Site Photographs*). Weather conditions during the survey included temperatures ranging from approximately 56 to 65 degrees Fahrenheit, 100 percent cloud cover, no precipitation, and varying wind speeds of 1-2 mph. The Biological Reconnaissance Survey Field Forms can be found in **Appendix B**, *Biological Reconnaissance Survey Field Forms*.

3.5.1. Vegetation

Plant communities in the BSA were identified, qualitatively described, and mapped onto an aerial photograph. Plant communities were determined in accordance with the categories set forth in Holland (1986) or Sawyer et al. (2009). Plant nomenclature follows that of *The Jepson Manual: Higher Plants of California* (Hickman 2012, Jepson 2025). A comprehensive list of the plant species observed during the survey is presented in **Appendix C**, *Plant & Wildlife Species Observed/Detected Onsite*.

3.5.2. Wildlife

All wildlife and wildlife signs observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Additional survey time was spent in those habitats most likely to be utilized by wildlife (undisturbed native habitat, wildlife trails, etc.) or in habitats with the potential to support state- and/or federal-listed or proposed listed species. Notes were made on the general habitat types, species observed, and the conditions of the site. A list of the wildlife species observed during the site visit is included as **Appendix C**, *Plant & Wildlife Species Observed/Detected Onsite*.

3.5.3. USACE, SWRQCB, and CDFW Preliminary Jurisdictional Assessment

Prior to beginning the field preliminary delineation, a 50-foot-to-the-inch scaled topographic map, scaled aerial photograph, and the Tustin 7.5-minute USGS topographic quadrangle map were examined to determine the locations of potential areas of U.S. Army Corps of Engineers (USACE), California State Water Resources Quality Control Board (SWRQCB), and/or California Department of Fish and Wildlife (CDFW) jurisdiction. HANA biologists examined the BSA to identify potential USACE jurisdiction pursuant to Section 404 and 401 of the Clean Water Act and CDFW jurisdiction pursuant to Section 1602 of the State of California Fish and Game Code. No jurisdictional drainages/areas were found onsite.

SECTION 4. RESULTS

4.1. LITERATURE REVIEW

4.1.1. Soils

After review of the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2025) (**Appendix D**, *USDA Natural Resources Conservation Service Web Soil Survey*), it was determined that the BSA is composed of the following soil type:

140 – Chino silty clay loam, drained, 0 to 2 percent slopes

The Chino silty clay loam has a mean annual precipitation of 12 to 16 inches and mean annual air temperature of 63 to 65°F. The soil can be found at elevations of 30 to 750 feet. The Chino silty clay loam is comprised of silty clay loam. The parent material is alluvium derived from sedimentary rock. The soil is somewhat poorly drained and has low runoff potential. The soil is not hydric.

4.1.2. Wetlands

A review of the USFWS National Wetlands Inventory's Wetland Mapper indicated that no wetlands occur within the BSA or the surrounding 1-mile radius. The nearest mapped wetland is located over 1 mile away and is separated from the BSA by a school, the 261 toll road, and undeveloped land. A small stormwater inlet was located onsite; however, this feature has no hydrologic connectivity to jurisdictional waters and is situated within a highly urbanized, residential area. Given the absence of nearby wetlands and the developed nature of the surrounding landscape, the inlet is not expected to pose any issues during construction activities. As such, wetlands are not considered a factor in the evaluation of biological resources for this project.

4.2. POTENTIAL FOR OCCURRENCE

A map of the CNDDB database occurrences is included in **Exhibit IV,** *Special-Status Species within 1 Mile of Project Area.*

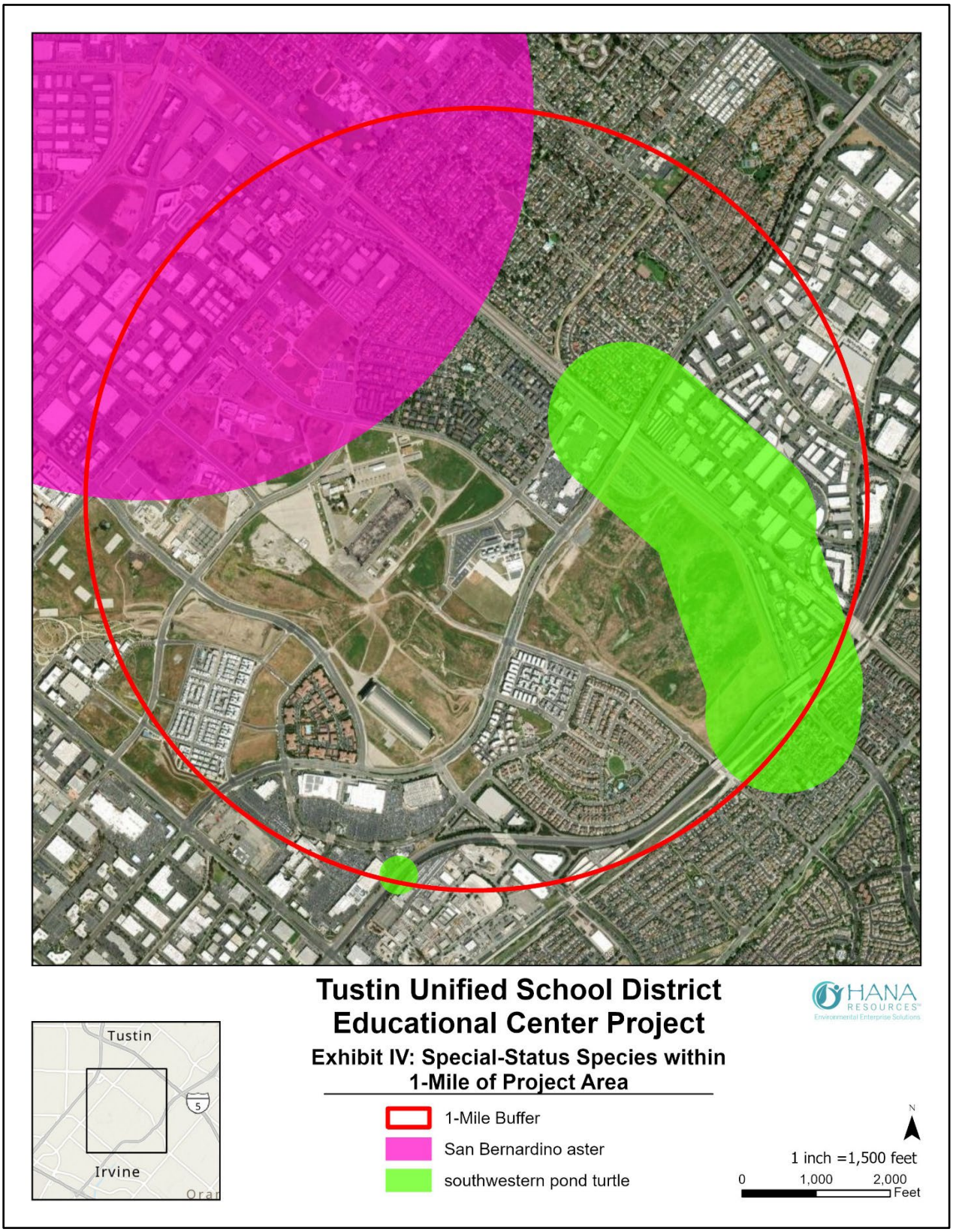
4.2.1. Vegetation

Vegetation

Sensitive natural communities are communities that are of limited distribution statewide or within a county or region and are often vulnerable. These communities may or may not contain special-status plants or their habitat.

The literature review found no sensitive vegetation communities within the one-mile area.

Exhibit IIV: Special-Status Species within 1 Mile of Project Area



4.2.2. Plants

The literature review resulted in a list of twenty-two (22) special-status plant species that have been known to occur within the BSA and surrounding 1-mile, presented in **Table 3**, *Special-Status Plant Species*. Of twenty-two (22) species, five (5) have *low* potential for occurrence, and seventeen (17) have *no* potential to occur in the BSA. Factors used to determine potential for occurrence include quality of habitat, soil type, impact from previous land use, and the date and location of prior CNDDB and Jepson eFlora occurrence records. Reconnaissance plant surveys were conducted to determine if they are present or absent in the BSA.

Table 3. Special-Status Plant Species

Scientific Name (=Synonym)	Common Name (=Synonym)	Status	General Habitat Description in California	BSA Contains Potential Suitable Habitats	Plant Elevation Range (feet amsl)	BSA is Located Within the Plant Species' Known:		Potential For Occurrence in the BSA
						Elevation Range	General Distribution	
Listed Endangered, Threatened, Candidate and State Rare Plants: Plants with official status under the federal Endangered Species Act (ESA), the California Endangered Species Act (CESA), and/or the Native Plant Protection Act (NPPA). A species may have other sensitive designations in addition to their federal or state listing.								
Berberis nevinii	Nevin's barberry	FE, SE	Nevin's barberry is a perennial evergreen shrub that grows in two habitat types. In the alluvial scrub community it grows on sandy and gravelly substrates along the margins of dry washes. In the chaparral community, it grows on steep, north-facing slopes with coarse soils and rocky slopes. It has also been found in cismontane woodlands, riparian scrub, and coastal sage scrub. This listed plant flowers from March to June.	No	899 – 2,706	No	No	**No Potential for Occurrence in the BSA.** The BSA lacks the alluvial scrub, chaparral, and other upland habitats with coarse or rocky soils that this species requires, none of which are present in the BSA. Additionally, the BSA falls outside of this species known elevation range.
Nasturtium gambelii	Gambel's water cress	FE, ST, CRPR: 1B.1, G1, S1	Gambel's watercress is a perennial rhizomatous herb that is found in freshwater and brackish marshes or swamps and grows on the margins of lakes and slowly flowing streams in or just above the water level and requires a permanent source of water, often where other vegetation is absent, but with bulrush, cattails or willows nearby. In drought, plants can be found growing on mud. This listed plant flowers from April to October.	No	16 – 1,082	Yes	Yes	**No Potential for Occurrence in the BSA.** This species is currently only known from three populations located in San Luis Obispo County. The BSA also lacks the aquatic habitat required for this perennial herb.
Sensitive Plants: These plants have no official status under the ESA, the CESA, and/or the NPPA; however, they are designated as sensitive or locally important by federal agencies, state agencies, and/or local conservation agencies and organizations.								
Atriplex coulteri	Coulter's saltbush	CRPR: 1B.2, G3, S2	Coulter's saltbush is an annual herb, which grows that typically can be found in valley and foothill grasslands, Chenopod scrub, and playas as well as moist meadows and vernal pools. It grows in areas of saline and alkaline soils, such as ocean bluffs. This sensitive plant flowers from April to October.	No	10 – 1510	Yes	Yes	**No Potential for Occurrence in the BSA.** This species is typically associated with coastal bluffs, alkaline soils, and sandy areas, which are not present in the BSA.
Atriplex pacifica	South Coast saltscale	CRPR: 1B.2, G4, S2	South Coast saltscale is an annual herb that occurs on coastal bluff scrub, coastal dunes, coastal scrub, chenopod scrub and playas. Found in alkaline soils. This wiry little herb grows in xeric, often mildly disturbed locales. Usually the surrounding vegetation is an open Diegan sage scrub dominated by *Artemisia californica*; although, near the Bernasconi Hills it was found on alkaline flats in an area devoid of taller shrubs. This sensitive plant flowers from March to October.	No	0 – 460	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks the coastal habitat and alkaline soils for which this species is associated.
Atriplex serenana var. *davidsonii*	Davidson's saltscale	CRPR: 1B.2, G5T1, S1	Davidson's saltscale is an annual herb that is found in coastal bluff scrub and coastal scrub. In Riverside County, it is found in alkali vernal pools, alkali annual grasslands, alkali playa, and alkali scrub components of alkali vernal plains. This sensitive plant flowers from April to October.	No	35 – 655	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks the coastal habitat and alkaline soils for which this species is associated.
Camissoniopsis lewisii	Lewis' evening-primrose	CRPR: 3, G4, S4	Lewis' evening-primrose is an annual herb that is found in sandy or clay soils within coastal bluff scrub, cismontane woodlands, coastal dunes, coastal scrub, and valley and foothill grasslands. This sensitive plant flowers from March to June.	Yes	0 – 985	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA contains clay soils preferred by this species; however, observations in the region are rare and typically associated with coastal or sandy habitats not found onsite.
Centromadia parryi ssp. *australis*	southern tarplant	CRPR: 1B.1, G3T2, S2	Southern tarplant is an annual herb that is found on the margins of marshes and swamps, and in vernally mesic sites within valley and foothill grasslands and vernal pools. This sensitive plant flowers from May to November.	Yes	0 – 1575	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA contains minimal, though suitable, habitat but observations within the county are rare and largely limited to wetlands and coastal areas.

Scientific Name (=Synonym)	Common Name (=Synonym)	Status	General Habitat Description in California	BSA Contains Potential Suitable Habitats	Plant Elevation Range (feet amsl)	BSA is Located Within the Plant Species' Known:		Potential For Occurrence in the BSA
						Elevation Range	General Distribution	
Convolvulus simulans	small-flowered morning-glory	CRPR: 4.2, G4, S4	Small-flowered morning-glory is an annual herb primarily associated with heavy, cracking, and friable clay substrates typically devoid of shrubs, often found in Vernal pools. Habitats it is usually associated with include annual grasslands, coastal sage scrub, and chaparral.	Yes	100 – 2430	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA contains disturbed, open areas devoid of shrubs that may provide suitable habitat.
Dudleya multicaulis	many-stemmed dudleya	CRPR: 1B.2, G2, S2	Many-stemmed dudleya is a perennial herb that is often associated with clay soils in barrens, rocky places, and ridgelines as well as thinly vegetated openings in chaparral, valley and foothill grasslands, and coastal sage scrub in heavy soils, often clay. This sensitive plant flowers from April to July.	Yes	50 – 2590	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA contains suitable open and disturbed clay soils; however, local observations are associated with coastal sage scrub habitat, which is absent onsite.
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	CRPR: 1A, G5TX, SX	Los Angeles sunflower is a perennial rhizomatous herb that is found in coastal salt and freshwater marshes and swamps. Usually occurs in wetlands, but occasionally found in non-wetlands. This sensitive plant flowers from August to October.	No	35 – 5005	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks the aquatic habitats preferred by this species, and modern occurrences in the area are extremely rare.
Hordeum intercedens	vernal barley (=bobtail barley)	CRPR: 3.2, G3G4, S3S4	Vernal barley is an annual herb that is associated with coastal dunes, vernal pools and saline flats and depressions in valley and foothill grasslands. In Riverside County, vernal barley is associated with alkali flats and flood plains within the alkali vernal plains community. Within this community vernal barley is primarily associated with alkali annual grasslands and vernal pools and to a lesser extent alkali scrub and alkali playa. This sensitive plant flowers from March to June.	No	15 – 3280	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks the saline and alkaline conditions associated with this species, and modern occurrences in the area are extremely rare.
Juncus acutus ssp. *leopoldii*	southwestern spiny rush	CRPR: 4.2, G5T5, S1S2	Southwestern spiny rush is a perennial rhizomatous herb that usually occurs in wetlands (alkaline seeps, swamps, and salt marshes), but occasionally found in non-wetlands (meadows and coastal dunes). It likes moist, saline places throughout southern California. This sensitive plant flowers from March to June.	No	10 – 2955	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks the necessary wetland, meadow, or coastal dune habitat required by the species. Additionally, local observations are limited to coastal areas within the region.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	CRPR: 1B.1, G4T2, S2	Coulter's goldfields is an annual herb that is associated with low-lying alkali habitats along the coast and in inland valleys. The majority of the populations are associated with coastal salt marshes and swamps. Coulter's goldfields occur primarily in the alkali vernal plains community. These are floodplains dominated by alkali scrub, alkali playas, vernal pools, and alkali grasslands. These habitats form mosaics that are largely dependent on salinity and micro-elevational differences. This sensitive plant flowers from February to June.	No	5 – 4005	Yes	No	**No Potential for Occurrence in the BSA.** The BSA lacks the alkali habitat associated with this species and modern occurrences in the area are rare.
Lepidium virginicum var. *robinsonii*	Robinson's pepper-grass	CRPR: 4.3, G5T3, S3	Robinson's pepper-grass is an annual herb that is found in dry soils on chaparral and coastal sage scrub often around rock outcrops. This sensitive plant flowers from January to July.	No	5 – 2905	Yes	Yes	**No Potential for Occurrence in the BSA.** This species is associated with chaparral and coastal sage scrub habitats, often around rock outcrops, none of which are present in the BSA.
Lycium californicum	California box-thorn	CRPR: 4.2, G4, S4	Common on ocean bluffs, mesas, and borders of estuaries in coastal bluff scrub along the coast. Grows under Torrey pine (*Pinus torreyana*) in the coastal sage scrub habitat.	No	15 – 490	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks sandy coastal bluffs and dunes that this species requires, as well as (*Pinus torreyana*) that it is associated with.
Nama stenocarpa	mud nama (=mud fiddleleaf)	CRPR: 2B.2, G4G5, S1S2	Mud nama is an annual/perennial herb that is found along marshes, swamps, lake shores, riverbanks, stream banks and intermittently wet areas. This sensitive plant flowers from January to July.	No	15 – 1640	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA lacks aquatic habitats such as streambanks, marshes, or intermittently wet areas required by this species.
Pentachaeta aurea ssp. allenii	Allen's pentachaeta	CRPR: 1B.1, G4T1, S1	Allen's pentachaeta is an annual herb that is found in openings in coastal scrub and valley and foothill grasslands. This sensitive plant flowers from March to June.	No	245 – 1705	No	Yes	**No Potential for Occurrence in the BSA.** While the BSA contains open area, it falls outside of this species known elevation range.
Senecio aphanactis	chaparral ragwort (=rayless ragwort)	CRPR: 1B.2, G3, S2	Chaparral ragwort is an annual herb that is found in chaparral, cismontane woodlands, coastal scrub (sometimes alkaline) and drying alkaline flats. This sensitive plant flowers from January to April.	No	50 – 2625	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA does not contain suitable habitat and occurs at the lower limit of this species' elevation range.

Scientific Name (=Synonym)	Common Name (=Synonym)	Status	General Habitat Description in California	BSA Contains Potential Suitable Habitats	Plant Elevation Range (feet amsl)	BSA is Located Within the Plant Species' Known:		Potential For Occurrence in the BSA
						Elevation Range	General Distribution	
Sidalcea neomexicana	salt spring checkerbloom (=mountain sidalcea)	CRPR: 2B.2, G4, S2	Salt spring checkerbloom is a perennial herb that is found in alkaline, mesic sites in chaparral, coastal scrub, lower montane coniferous forests, Mojavean desert scrub, alkali playas, and brackish marshes. This sensitive plant flowers from March to June.	No	50 – 5020	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA does not contain suitable habitat and occurs at the lower end of this species' elevation range. Additionally, modern occurrences in the area are extremely rare.
Symphyotrichum defoliatum (=*Aster greatae*)	San Bernardino aster	CRPR: 1B.2, G2, S2	San Bernardino aster is a perennial rhizomatous herb that is found in cismontane woodlands, coastal scrub, lower montane coniferous forests, meadows and seeps, marshes and swamps, and vernally mesic valley and foothill grasslands. While this species usually occurs in meadows, springs and streams, it also occurs in upland habitats. Can be found near ditches, streams, springs or disturbed areas. Grows in seasonally moist fine alluvial soils. This sensitive plant flowers from July to November.	Yes	7 – 6,691	Yes	Yes	**Low Potential for Occurrence in the BSA.** While the BSA contains suitable disturbed habitat and alluvial soils, it lies on the lower limit of this species elevation range.
Suaeda esteroa	estuary seablite	CRPR: 1B.2, G3, S2	Estuary seablite is a perennial fleshy herb that is found in coastal salt marshes and swamps often growing with *Salicornia subterminalis*. Soils at such locales are usually mapped as tidal flats. Oftentimes, only a narrow band of terrain on the very periphery of the salt marsh is utilized by this plant. This sensitive plant flowers from May to January.	No	0 – 15	No	No	**No Potential for Occurrence in the BSA.** The BSA lacks this species plant associate (*Salicornia subterminalis*), coastal aquatic habitat, and elevation which is typically associated with this species and plant associate.
Suaeda taxifolia	woolly seablite	CRPR: 4.2, G4, S3S4	Wolly seablite is perennial evergreen shrub native to the coastline of southern California and Baja California, where it grows in saline habitat such as salt marshes, beaches, coastal dunes, and coastal bluff scrub.	No	0 – 165	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA does not contain saline habitat such as salt marshes, beaches, or dunes, and is not located on the coastline where this species is exclusively found.

Legend and Notes

Notes:

- The BSA contains approximate elevations of 55-65 feet above mean sea level (amsl).
- The BSA encompasses disturbed habitat including developed areas containing ornamental plants, agricultural land, and a maintained field that was previously agricultural land.
- **Yes** = the BSA is located within the plant species' known distribution, elevation range, and/or the BSA contains suitable habitats and/or soils to support the plant species. The plant species has a potential to occur within the BSA. Further evaluation is needed.
- **No** = the BSA is located outside the plant species' known distribution, elevation range, and/or the BSA lacks suitable habitats and/or soils to support the plant species. It is highly unlikely for the plant species to have a potential to occur within the BSA. No further evaluation is needed.
- A CNPS elevation range is provided for each taxon in feet. The stated range is for the California portion of a plant's range only (if the taxon also occurs outside the state). These CNPS elevation range data are accumulated from literature, herbarium specimens, and field survey information.

Federal Endangered Species Act (ESA) Listing Codes: the ESA is administered by the USFWS and NMFS. The USFWS has primary responsibility for terrestrial and freshwater organisms, while the responsibilities of NMFS are mainly marine wildlife such as whales and anadromous fish such as salmon. For the purposes of the ESA, Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population segments. The official federal listing of Endangered and Threatened plants is published in 50 CFR § 17.12.

- **FE = federally listed as endangered:** any species of plant or animal that is in danger of extinction throughout all or a significant portion of their range.
- **FT = federally listed as threatened:** any species of plant or animal that is considered likely to become endangered throughout all or a significant portion of its range within the foreseeable future.
- **FC = federal candidate for listing:** candidate species are plants and animals for which the USFWS has sufficient information on their biological status and threats to propose them for listing as endangered or threatened under the ESA, but for which development of a proposed listing regulation is precluded by higher priority listing actions to address species in greater need. A proposed regulation has not yet been published in the Federal Register for these species.
- **FPE = federally proposed for listing as endangered:** a candidate species that has been proposed by USFWS for listing as endangered and the proposed rule, but not a final rule, to list has been published in the Federal Register.
- **FPT = federally proposed for listing as threatened:** a candidate species that has been proposed by USFWS for listing as threatened and the proposed rule, but not a final rule, to list has been published in the Federal Register.
- **FPD = federally proposed for delisting:** a species that has been proposed by USFWS for delisting (or down listing from endangered to threatened) and the proposed rule to delist has been published in the Federal Register.

California Endangered Species Act (CESA) and California Native Plant Protection Act (NPPA) Listing Codes: the CESA and NPPA are administered by CDFW. The official listing of *Plants of California Declared to Be Endangered, Threatened or Rare* is contained in the California Code of Regulations, Title 14, § 670.2. Species, subspecies and varieties of California native plants are declared to be endangered, threatened as defined by § 2062 and § 2067 of the Fish and Game Code or rare as defined by § 1901 of the Fish and Game Code.

Legend and Notes

- **SE = state-listed as endangered:** "endangered species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease (Fish and Game Code § 2062).
- **ST = state-listed as threatened:** "threatened species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts (Fish and Game Code § 2067).
- **SCE = state candidate for listing as endangered:** a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed published in the California Regulatory Notice Register as being under review by CDFW for addition to the list of endangered species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to add the species to the list (Fish and Game Code § 2068).
- **SCT = state candidate for listing as threatened:** a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed published in the California Regulatory Notice Register as being under review by CDFW for addition to the list of threatened species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to add the species to the list (Fish and Game Code § 2068).
- **SCD = state candidate for delisting:** a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed published in the California Regulatory Notice Register as being under review by CDFW for removal from either the list of endangered species or the list of threatened species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to remove the species to either list.
- **SR = state rare:** A species, subspecies, or variety of native plant is rare when, although not presently threatened with extinction, it is in such small numbers throughout its range that it may become endangered if its present environment worsens (Fish and Game Code § 1901).

California Rare Plant Ranks (Formerly known as CNPS Lists): the CNPS is a statewide, nonprofit organization that maintains, with CDFW, an Inventory of Rare and Endangered Plants of California. In the spring of 2011, CNPS and CDFW officially changed the name "CNPS List" or "CNPS Ranks" to "California Rare Plant Rank" (or CPRP). This was done to reduce confusion over the fact that CNPS and CDFW jointly manage the Rare Plant Status Review Groups and the rank assignments are the product of a collaborative effort and not solely a CNPS assignment.

- **CRPR: 1A = California Rare Plant Rank 1A - plants presumed extirpated in California and either rare or extinct elsewhere:** the plants with a CRPA of 1A are presumed extirpated because they have not been seen or collected in the wild in California for many years. This rank includes plants that are both presumed extinct as well as those plants which are presumed extirpated in California. All of the plants constituting CRPR 1A meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. Should these taxa be rediscovered, it is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 1B = California Rare Plant Rank 1B - plants rare, threatened, or endangered in California and elsewhere:** plants with a CRPR of 1B are rare throughout their range with the majority of them endemic to California. Most of the plants that are ranked 1B have declined significantly over the last century. All of the plants constituting CRPR 1B meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. It is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 2A = California Rare Plant Rank 2A - plants presumed extirpated in California, but more common elsewhere:** the plant taxa of CRPR 2A are presumed extirpated because they have not been observed or documented in California for many years. This list includes only those plant taxa that are presumed extirpated in California, but more common elsewhere in their range. All of the plants on List 2A meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. Should these taxa be rediscovered, it is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 2B = California Rare Plant Rank 2B - plants rare, threatened, or endangered in California, but more common elsewhere:** except for being common beyond the boundaries of California, plants with a CRPR of 2B would have been ranked 1B. From the federal perspective, plants common in other states or countries are not eligible for consideration under the provisions of the ESA. All of the plants constituting CRPR 2B meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. It is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 3 = California Rare Plant Rank 3 - plants about which more information is needed - a review list:** the plants that comprise CRPR 3 are united by one common theme – CNPS and CDFW lack the necessary information to assign them to one of the other ranks or to reject them. Nearly all of the plants constituting CRPR 3 are taxonomically problematic. Some of the plants constituting CRPR 3 meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. CNPS strongly recommends that CRPR 3 plants be evaluated for consideration during preparation of environmental documents relating to CEQA.
- **CRPR 4 = California Rare Plant Rank 4 - plants of limited distribution - a watch list**: the plants in this category are of limited distribution or infrequent throughout a broader area in California. While CNPS and CDFW cannot call these plants "rare" from a statewide perspective, they are uncommon enough that their status should be monitored regularly. Should the degree of endangerment or rarity of a CRPR 4 plant change, CNPS and CDFW will transfer it to a more appropriate rank. Some of the plants constituting CRPR 4 meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and few, if any, are eligible for state listing. Nevertheless, many of them are significant locally, and CNPS strongly recommends that CRPR 4 plants be evaluated for consideration during preparation of environmental documents relating to CEQA.
- **Considered But Rejected =** plants that have been considered for inclusion into the CNPS Inventory, but were not included for various reasons.

California Native Plant Society (CNPS) Threat Ranks: The CNPS Threat Rank is an extension added onto the California Rare Plant Rank (CRPR) (as a decimal code) and designates the level of threats by a 1 to 3 ranking with 1 being the most threatened and 3 being the least threatened. A Threat Rank is present for all CRPR 1B's, 2B's, 4's, and the majority of CRPR 3's. CRPR 4 plants are seldom assigned a Threat Rank of .1, as they generally have large enough populations to not have significant threats to their continued existence in California; however, certain conditions exist to make the plant a species of concern and hence be assigned a CRPR. In addition, all CRPR 1A and 2A (presumed extirpated in California), and some CRPR 3 (need more information) plants, which lack threat information, do not have a Threat Rank extension.

- **.1** = seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- **.2** = moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- **.3** = not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Other:

- **Annual**: grows from seed and reproduce within a single year.
- **Perennial**: lives more than one year.
- **Deciduous**: plants shed their leaves for part of the year.
- **Evergreen:** plants retain their leaves for an entire year.
- **Mesic habitat:** a habitat with a moderate or well-balanced supply of moisture.

Legend and Notes

• **Hemiparasitic:** plants that are connected to host plants and derive energy, water, and minerals from them, but also maintain their own functional root systems or photosynthetic surfaces.
• **Parasitic:** plants that are connected to host plants and rely solely on them for energy, water, and nutritional requirements.
• **Carnivorous:** plants that trap insects and other small animals and derive nourishment from them.
• **Herbs**: plants that are herbaceous and lack above-ground woody tissue.
  ○ **Bulbiferous herb**: plants that have fleshy underground storage organs typically derived from scale leaves (this category includes coniferous and other similar plants in which storage organs have other origins).
  ○ **Rhizomatous herb**: plants that have underground stems (rhizomes), typically bearing shoots which develop into new plants.
  ○ **Stoloniferous herb:** plants that have above-ground runners (stolons) which typically root and produce new plants.
• **Shrubs:** smaller woody perennials that retain most of their above-ground woody tissue and are typically many-stemmed.
  ○ **Leaf succulents:** succulents with thick, fleshy leaves.
  ○ **Stem succulents:** succulents with thick, fleshy stems and reduced or absent leaves.
• **Trees:** larger woody perennials that retain all of their above-ground wood tissue and are typically single-stemmed.
• **Vines:** twining woody perennials requiring external support for growth.
• **Mosses:** small green plants (one of three groups of bryophytes) with structures that resemble miniature leaves and stems. The leaves generally have a midrib called a costa. The sporophyte (the spore-bearing structure) is persistent for weeks.
• **Liverworts:** small green plants (one of three groups of bryophytes). There are both leafy and thalloid types - leafy liverworts lack a midrib on the leaves, while thalloid liverworts have no leaves. The sporophyte is short-lived.

4.2.3. Wildlife

The literature review resulted in a list of thirty-five (35) special-status wildlife species that have been known to occur within the BSA and surrounding 1-mile, which is presented in **Table 4**, *Special-Status Wildlife Species*. None of these special-status wildlife species were considered to have *high* or *moderate* potential, five (5) were considered to have *low* potential, and thirty (30) were considered to have *no* potential to occur in the BSA. Factors used to determine potential for occurrence include quality of habitat, soil type, impact from previous land use, and the date and location of prior CNDDB occurrence records. A reconnaissance wildlife survey was also conducted to determine if they are present or absent in the BSA.

Table 4. Special-Status Wildlife Species

Scientific Name (=Synonym)	Common Name (=Synonym)	Status	General Habitat Descriptions in California	The BSA:		Potential For Occurrence in the BSA
				Located Within Species' Distribution and/or Elevation Range (if known)	Contains Suitable Foraging, Roosting, and/or Breeding Habitats	
Listed Endangered, Threatened, and Candidate Wildlife: Wildlife with official status under the federal Endangered Species Act (ESA) and/or the California Endangered Species Act (CESA). A species may have other sensitive designations in addition to their federal or state listing.						
Listed Birds						
Aquila chrysaetos	golden eagle	fully protected WL BLMS BCC CDF:S OC NCCP/HCP: Covered Species	Golden eagles occur primarily in mountainous canyon land, rimrock terrain of open desert and grassland areas. Habitat typically includes open rolling foothills of grasslands, oak savannas, oak and juniper woodlands, chaparral, mountain areas, and desert. They usually avoid heavily forested areas and extensive croplands. They may be found in coniferous habitat when open space is available (e.g. fire breaks, clear-cuts, burned areas, pasture-land, etc.). Golden eagles are typically not found on the immediate coast and are almost never detected in urbanized environments. Golden eagles usually nest on cliffs. Nesting is primarily restricted to rugged, mountainous country and open habitats with canyons and escarpments. Golden eagles will also nest in trees, on ground, clay cliffs, river banks, and human-made structures, including windmills, observation towers, powerline poles, electricity transmission towers, nesting platforms, abandoned gold dredges, and electrical transmission towers. Many nests have an unobstructed wide view of the surrounding area or are on prominent escarpments. These eagles require a huge territory to forage for prey. They typically forage in open habitats including grasslands, deserts, savannahs, and shrublands. Preferred territory sites include those that have a favorable nest site, a dependable food supply, and broad expanses of open country for foraging. Hilly or mountainous country, deeply cut canyons rising to open mountain slopes and crags are ideal habitat.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not contain suitable nest sites or a dependable food supply. In addition, golden eagles are almost never detected in urbanized environments.
Athene cunicularia	burrowing owl	SCE CDFW: SSC BLM: S USFWS: BCC Season of Concern: burrowing sites and some wintering sites	The burrowing owl (BUOW) is a small, ground-inhabiting owl. Typical BUOW habitat is open, dry, flat ground or low rolling hills with sparse vegetation and available burrows. BUOWs are generally found in open country, where tree or shrub canopies cover less than 30% of the habitat. Typical habitats include annual and perennial grasslands, shortgrass prairies open agricultural areas (particularly rangelands), deserts floors, and vacant lots in residential areas and university campuses. Other habitats include oak savannah; grass, forb, and open shrub stages of pinyon-juniper and ponderosa pine habitat; sandy beaches and coastal dunes; and river bottom lands. BUOWs inhabiting urban landscaped areas may live in vacant fields/lots, pastures, airports, athletic fields, golf courses, cemeteries, city parks, road shoulders, drainage sumps, railroad beds, irrigation ditches, and road cuts. Nest and roost burrows of the BUOW in California are most commonly dug by California ground squirrels (*Spermophilus beecheyi*). BUOWs in Imperial County often use the small holes of round-tailed ground squirrels (*Citellus tereticaudus*) and Botta's pocket gophers (*Thomomys bottae*), but they also can dig their own burrows in the soft banks of irrigation canals and ditches. Where burrows are scarce, man-made structures, such as culverts, piles of concrete, rubble, or debris, pipes, asphalt, artificial nest boxes, and openings beneath cement or asphalt pavement also are used as nest sites.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not contain suitable burrows for this species to occupy. Although abandoned rodent burrows were detected onsite, none of them were deemed large enough to support BUOW, and thus it is highly unlikely BUOW would occupy this site in the future. Additionally, no BUOW sign was observed within the BSA.
Charadrius nivosus	western snowy	FT	The Pacific coast population breeds above the high tide line on coastal beaches, sand spits, dune-	Yes	No	**No Potential for Occurrence in the BSA.**

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				Located Within Species' Distribution and/or Elevation Range (if known)	Contains Suitable Foraging, Roosting, and/or Breeding Habitats	
nivosus	plover	SSC BCC	backed beaches, sparsely-vegetated dunes, beaches at creek and river mouths, and salt pans at lagoons and estuaries. Less common nesting habitat includes bluff-backed beaches, dredged material disposal sites, salt pond levees, dry salt ponds, and river bars. The interior population breeds on barren to sparsely vegetated ground at alkaline or saline lakes, reservoirs, and pond; on riverine sand bars; and at sewage, salt-evaporation, and agricultural waste-water ponds.			This BSA does not contain suitable undisturbed breeding habitats or large aquatic feeding grounds to support this species.
Haliaeetus leucocephalus	bald eagle	FDR SE CDFW: FP BLM: S CDF:S BCC	The bald eagle is federally delisted. Range-wide, bald eagles occur primarily in or near seacoasts, rivers, wetlands swamps, and large lakes. Requires large bodies of water, or free flowing rivers with abundant fish, and adjacent snags or other perches and nesting sites to support them. Perching sites need to be composed of large trees or snags with heavy limbs or broken tops. It roosts communally in winter in dense, sheltered, remote conifer stands. The State's breeding habitats are mainly in mountain and foothill forests and woodlands near reservoirs, lakes, and rivers. Large nests are normally built in the upper canopy of large trees, usually conifers.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not contain adequate large bodies of water, or free flowing rivers with abundant fish for foraging. In addition, suitable perching sites, roosting sites, and breeding habitats are absent from the BSA. Any occurrence would mostly likely be restricted to fly-overs.
Laterallus jamaicensis coturniculus	California black rail	ST BLM: S CDFW: FP IUCN: EN	Occurs in various habitats, from high coastal marshes to freshwater marshes along the lower Colorado River. Along the coast, they favor marshland with unrestricted tidal influence (estuarine, intertidal, emergent, and regularly flooded). The rails often make their homes in tidal salt marshes dominated by pickleweed (*Salicornia pacifica*), but they inhabit brackish and freshwater marshes as well. In coastal and estuarine saltmarshes, their favored areas are dominated by pickleweed, bulrushes, and matted salt grass (*Distichlis spicata*) and other marsh vegetation. Along the Colorado River, they use areas of shallow water with relatively stable water levels and flat shoreline supporting dense stands of three-square bulrush.	No	No	**No Potential for Occurrence in the BSA.** The BSA does not contain suitable breeding coastal salt marsh or freshwater marsh habitats and aquatic mudflat foraging habitats to support this species.
Polioptila californica californica	Coastal California gnatcatcher	FT SSC OC NCCP/HCP: Covered Species	This species occurs in or near coastal sage scrub, a habitat characterized by relatively low growing, dry-season deciduous, and succulent plants. Characteristic plants of these communities include California sagebrush (*Artemisia californica*), California buckwheat (*Eriogonum fasciculatum*), laurel sumac (*Malosma laurina*), lemonade berry (*Rhus integrifolia*), bush penstemon (*Keckiella antirrhinoides*), and various species of sage (*Salvia* spp.).	Yes	No	**No Potential for Occurrence in the BSA.** The BSA lacks coastal sage scrub habitat and is dominated by ruderal and non-native species. Additionally, the BSA lacks foraging and nesting vegetation.
Rallus obsoletus levipes	light-footed Ridgway's rail	FE	The light-footed Ridgway's rail uses southern California coastal salt marshes, lagoons, and their maritime environs. The birds nest in the lower littoral zone of coastal salt marshes where dense stands of cordgrass are present. They require shallow water and mudflats for foraging, with adjacent higher vegetation for cover during high water. It is believed that most salt marshes along the coastline at one time supported Ridgway's rails. However, recent census data (USFWS 2024) indicate that less than 50% of the coastal wetlands in California are currently occupied. Southern California's largest subpopulation of these rails, located in the Upper Newport Bay, has been successfully reproducing since 1980.	No	No	**No Potential for Occurrence in the BSA.** The BSA does not contain estuarine marshes or shallow water for foraging. There is no cover or hydrology to support this species.
Sternula antillarum browni	California least tern	FE	This species breeds along the Pacific coast from San Francisco Bay southward to Baja California, favoring sparsely vegetated beaches and coastal dune habitats. Nests are typically shallow scrapes in sandy or gravelly substrates near estuaries, lagoons, and river mouths. Foraging occurs in nearby shallow marine or estuarine waters. Key breeding colonies persist in areas such as the Bolsa Chica Ecological Reserve and Upper Newport Bay.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not contain open sandy beaches or adjacent estuarine foraging habitat. Vegetation and substrate are unsuitable for nesting.
Vireo bellii pusillus	least Bell's vireo	FE OC NCCP/HCP: Covered Species	Breeds in lowland riparian woodlands throughout southern California, with the core of its range concentrated in inland valleys and foothill drainages. It nests in dense, shrubby vegetation such as willows (*Salix*), mulefat (*Baccharis salicifolia*), or wild rose (*Rosa* spp.), generally within 2 meters of the ground and often near surface water. Foraging and roosting occur within the riparian canopy and understory. Population increasing in Santa Ana River and San Diego Creek areas, where suitable willow-cottonwood vegetation persists (Houston et al. 2024).	Yes	Yes	**No Potential for Occurrence in the BSA.** The BSA contained isolated mulefat and coyotebrush, but not in adequate amounts. The site also lacks continuous riparian vegetation.
Listed Mammals						
Perognathus longimembris	Pacific pocket mouse	FE	Restricted to sandy soils within coastal southern California, with a highly fragmented range extending from Dana Point south into northern San Diego County. Breeding occurs in burrows	No	No	**No Potential for Occurrence in the BSA.** This species is typically associated with loose soils

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pacificus		OC NCCP/HCP: Covered Species	constructed in loose, well-drained soils within open coastal sage scrub, dune, or alluvial fan habitats.			and native habitats that are not present in the BSA.
Listed Reptiles						
Actinemys pallida	Southwestern pond turtle	FPT CDFW: SSC IUCN: VU BLM: S G2G3	Inhabits slow moving permanent or intermittent streams, small ponds, small lakes, reservoirs, abandoned gravel pits, permanent and ephemeral shallow wetlands, stock ponds, and sewage treatment lagoons. Pools are the preferred habitat within streams. Abundant logs, rocks, submerged vegetation, mud, undercut banks, and ledges are necessary habitat components for cover as well as a water depth greater than 2 m.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not contain aquatic habitats or basking sites to support this turtle.
Listed Amphibians						
Spea hammondii	western spadefoot	FPT SSC BLMS OC NCCP/HCP: Covered Species	May be found in coastal sage scrub, open chaparral, pine-oak woodlands and grassland habitats, but is most common in grasslands with vernal pools or mixed grassland/coastal sage scrub areas. Within these habitats, they require rain pools/vernal pools in which to reproduce, and that persist with more than three weeks of standing water in which to metamorphose successfully. They can also breed in slow-moving streams (e.g., areas flooded by intermittent streams). Water breeding sites must lack fish, bullfrogs, and crayfish in order for to successfully reproduce and metamorphose. They estivate in sandy, gravelly soil in upland habitats adjacent to potential breeding sites in burrows approximating 1 meter in depth.	No	No	**No Potential for Occurrence in the BSA.** The BSA lacks the wetland habitat for which this species is reliant for breeding and does not venture far from. Additionally, the BSA contains soils inconsistent with the needs of the species.
Listed Insects						
Bombus crotchii	Crotch bumble bee	SCE	Crotch's bumblebee occurs primarily in California, including the Mediterranean region, Pacific Coast, Western Desert, Great Valley, and adjacent foothills throughout much of southwestern California, with additional records from southwest Nevada near the California border. It inhabits open grassland and scrub habitats and is adapted to hotter and drier conditions than many other bumblebee species. Crotch's bumblebee is a short-tongued species, which influences its floral preferences and foraging behavior. Known food plant genera include *Antirrhinum*, *Phacelia*, *Clarkia*, *Dendromecon*, *Eschscholzia*, and *Eriogonum*.	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA is highly disturbed and is adjacent to active construction and utilized as an access point. The site is characterized by low-lying grasses and contains minimal vegetation to support this species.
Danaus plexippus	monarch butterfly	FPT	Their roosts are located in wind-protected tree groves (eucalyptus [*Eucalyptus* sp.], Monterey pine [*Pinus radiata*], cypress [*Hesperocyparis* spp.]), with nectar and water sources nearby. Monarch butterflies lay their eggs exclusively on milkweed, which the larva feed on.	Yes	No	**Low Potential for Occurrence in the BSA.** The BSA does not contain milkweed, a plant necessary as an egg-laying site and food source for larvae but adults will utilize a wide variety of flowering plants as a nectar source during migration.
Sensitive Wildlife: **These animals have no official status under the ESA and/or the CESA; however they are designated as sensitive or locally important by federal agencies, state agencies, and/or local conservation agencies and organizations.**						
Sensitive Birds						
Aechmophorus clarkii	Clark's grebe	BCC	Large freshwater lakes and marshes whose edges have emergent vegetation such as reeds and rushes. On very large lakes, colonies may number in the hundreds of pairs during breeding season. Smaller numbers winter inland on lakes and rivers.	Yes	No	**No Potential for Occurrence in the BSA.** Freshwater lakes and emergent marsh vegetation required for breeding and foraging are not present in the BSA. There is no aquatic habitat to support this species.
Aechmophorus occidentalis	western grebe	BCC Rangewide (CON)	Western Grebes breed in freshwater lakes and marshes and migrate to coastal bays and marine environments for winter. They feed on small fish such as perch (*Perca* spp.) and aquatic invertebrates like water fleas (*Daphnia* spp.). Western Grebes are found in large freshwater lakes and marshes in western North America. They are known for their striking courtship displays and are often seen in breeding colonies on isolated lakes. Their diet includes fish such as Percidae and small invertebrates. Habitat changes due to water management and pollution are concerns.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA lacks freshwater marshes, lakes, or coastal bays that provide suitable nesting and foraging habitat. No aquatic features are present to support this species.
Agelaius tricolor	tricolored blackbird	BCC SSC	The tricolored blackbird breeds primarily in the Central Valley and southern California, forming large colonies in freshwater marshes, agricultural fields, and other open wetlands with dense,	Yes	No	**No Potential for Occurrence in the BSA.** Freshwater marshes with dense emergent

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			emergent vegetation such as cattails (*Typha* spp.) or bulrush (*Schoenoplectus* spp.). Nests are built low within dense stands of vegetation over or near standing water. Foraging occurs in adjacent grasslands, pastures, and croplands. Roosting takes place in tall wetland vegetation near nesting colonies or in nearby trees and shrubs, often communally and near foraging areas.			vegetation used for nesting and colony formation are not present. The BSA's vegetation is dominated by non-native forbs and grasses, offering no suitable habitat.
Baeolophus inornatus	oak titmouse	BCC	The oak titmouse is a common resident in a variety of habitats, but is primarily associated with oaks (*Quercus* spp.). It occurs in montane hardwood-conifer, montane hardwood, blue, valley, and coastal oak woodlands, chaparral, and montane and valley foothill riparian habitats. They may live in habitats with scrub oaks or other brush as long as woodland occurs nearby. Despite clear preference for oaks, populations in some areas have adapted locally to live in warm, dry environments without oaks, e.g. western juniper woodland in extreme northern California. Nests are constructed in natural tree cavities, in old woodpecker holes, or in a bird box.	Yes	No	**No potential to occur in the BSA.** The BSA does not contain suitable oak, conifer, or riparian habitats to support this species.
Chamaea fasciata	wrentit	BCC	Found in dense chaparral, coastal scrub, riparian scrub and oak woodland with dense vegetation. Extremely site-tenacious and very unlikely to be found out of habitat or out of range.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA lacks dense coastal scrub, chaparral, or oak woodland, and no suitable nesting or foraging cover is available.
Circus hudsonius	northern harrier	SSC, BCC OC NCCP/HCP: Covered Species Season of Concern: nesting	Northern harriers breed and forage in a variety of open (treeless) habitats that provide adequate vegetative cover, an abundance of suitable prey, and scattered hunting, plucking, and lookout perches such as shrubs or fence posts. In California, such habitats include open wetlands, freshwater marshes, brackish and saltwater marshes, wet meadows, weedy borders of lakes, rivers and streams, annual and perennial grasslands (including those with vernal pools), weed fields, fallow fields, ungrazed or lightly grazed pastures, some croplands (especially alfalfa [*Medicago sativa*], grain, sugar beets [*Beta vulgaris*], tomatoes [*Solanum lycopersicum*], and melons), sagebrush flats, and desert sinks. Northern harriers are ground nesters, with the nest placed in dense, often tall, vegetation in undisturbed areas.	Yes	Yes	**Low Potential for Occurrence in the BSA.** Open ruderal vegetation in the BSA may provide limited foraging habitat, but dense vegetation required for nesting is absent, and the site is highly disturbed.
Contopus cooperi	olive-sided flycatcher	SSC Season of Concern: nesting	They breed mostly in coniferous forests in high mountains where tall trees overlook canyons, meadows, lakes or other open terrain. They are mostly associated with edges, openings, and natural and human-created clearings in otherwise relatively dense forests, but they also occupy semi-open forests and burned forests. They require large, tall trees, usually conifers, for nesting and roosting sites. In the Sierra Nevada, it is more abundant in open mixed conifer and California red forest than in closed-canopy forest. High in the White Mountains, this species is associated with limber pine (*Pinus flexilis*), western bristlecone pine (*Pinus longaeva*), and lodgepole pine (*Pinus contorta*), preferring mature open stands. In bigcone Douglas-fir (*Pseudotsuga macrocarpa*) forests in northwestern California, the species is detected more often at forest edges than in forest interiors. They also nest near the coast in tall trees, including eucalyptus (*Eucalyptus* spp.) in foothill canyons. Nests in California are mostly in conifers, but may be in a variety of species including willows (*Salix* sp.), alders (*Alnus* sp.), oaks and eucalyptus.	Yes	No	**No potential to occur in the BSA.** The BSA does not contain suitable conifer and tall tree habitats to support this species. Vegetation is herbaceous and lacks vertical structure.
Dryobates nuttallii	Nuttall's woodpecker	BCC	Found in oak woodlands, mixed oak-conifer and oak-riparian woodlands, wooded suburban areas and woodlands near streams and tall, dense chaparral. Small populations extend onto deserts along riparian corridors.	Yes	No	**No Potential for Occurrence in the BSA.** The species relies on mature oaks, riparian corridors, and woodlands near water for nesting and foraging. None of these features are present in or near the BSA.
Geothlypis trichas sinuosa	salt marsh common yellowthroat (=San Francisco common	BCC	The breeding habitat is divided into three broad types: woody swamp, brackish marsh, and freshwater marsh. For the San Francisco Bay area as a whole, 60% occupy brackish marsh, 20% riparian woodland/swamp, 10% freshwater marsh, 5% salt marsh and 5% upland. This yellowthroat occupies the ecotone between moist and upland situations. Yellowthroat abundance is positively associated with a high percent cover of rushes (*Juncus* sp.), Peppergrass and Juncus, height of the highest herbaceous plant, and vegetation density over 30 cm. They	No	No	**No Potential for Occurrence in the BSA.** The BSA lacks brackish marshes, dense herbaceous vegetation, and wetland edge habitats. The disturbed, dry conditions onsite offer no nesting or cover habitat.

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	yellowthroat)		build open-cup nests that are well concealed, typically near the ground in grasses, herbaceous vegetation, cattails (*Typha* sp.), tules and some shrubs.			
Icterus bullockii	Bullock's oriole	BCC-BCR	This species is found in western North America, northeastern Mexico, and southwestern Canada. They breed in open deciduous woodlands, scrubland, and riparian corridors. Bullock's orioles nest from late spring to early summer in willows (*Salix* spp.), cottonwoods (*Populus* spp.), sycamores (*Platanus* spp.), madrones (*Arbutus* spp.), and mesquite trees (*Prosopis* spp.) at approximately 10-25' above ground at habitat edges. It migrates to Mexico and Central America for winter. Can adapt to pecan trees (*Carya illinoinensis*) in orchards, irrigated fields, ranches, parks, and street trees. Its diet includes caterpillars (e.g., *Lonomia obliqua*) and beetles (e.g., *Chrysomela scripta*), fruits like mulberries (*Morus* spp.) and cherries (*Prunus* spp.), and nectar from flowering plants, using the "gaping" method to extract juices with their brush-like tongues.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not contain tall riparian trees such as willows, cottonwoods, or sycamores required for nesting. The surrounding habitat is not suitable for breeding.
Larus californicus	California gull	BCC Season of Concern: nesting colony	A fairly common colonial nester at alkali and freshwater lacustrine habitats east of the Sierra Nevada and Cascades, and an abundant visitor to coastal and interior lowlands in nonbreeding season. A colonial nester on islets in large interior lakes, either fresh or strongly alkaline. Preferred winter habitats along the coast are sandy beaches, mudflats, rocky intertidal, and pelagic areas of marine and estuarine habitats, as well as fresh and saline emergent wetlands. Inland, frequents lacustrine, riverine, and cropland habitats, landfill dumps, and open lawns in cities.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA lacks interior lakes, large open water bodies, or foraging areas associated with this species. No nesting or loafing habitat is present.
Larus occidentalis	western gull	BCC	The western gull is a coastal species occurring year-round along the Pacific coast from Washington to Baja California. Breeding colonies are located on isolated coastal bluffs, sea stacks, and offshore islands, where nests are constructed on bare ground or rocky ledges using grasses and debris. Foraging occurs in nearshore marine waters, intertidal zones, and urban areas, with a diet that includes fish, invertebrates, carrion, and refuse. Roosting occurs on coastal beaches, jetties, rooftops, and piers, often in large flocks, with individuals favoring open areas offering clear lines of sight.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA is not located near coastal marine environments or offshore nesting sites. No suitable foraging or roosting areas exist.
Limnodromus griseus	short-billed dowitcher	BCC	Winters along both coasts of North America, with California's coastal estuaries and mudflats serving as key habitat during migration and winter. It breeds in subarctic bogs and wet meadows of Canada and Alaska, where it nests in grassy tussocks or mossy ground near water. Foraging occurs in coastal mudflats, estuaries, and salt marshes, where it probes for small invertebrates in soft substrates. Roosting sites are typically on elevated mudbanks, salt marsh islands, or shorelines that provide protection from flooding and disturbance.	No	No	**No Potential for Occurrence in the BSA.** The BSA lacks coastal estuaries, mudflats, or salt marshes to provide the soft substrates and invertebrate prey used during migration and wintering.
Megascops kennicottii cardonensis	western screech owl	BCC	This species is distributed across western North America, including throughout California, where it inhabits woodlands, riparian areas, and suburban settings with sufficient tree cover. Nests in natural tree cavities or abandoned woodpecker holes, often in sycamores, oaks, or cottonwoods. Roosting typically occurs in cavities or dense foliage.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA does not support woodland, riparian trees, or cavities required for roosting and nesting. Vegetation is too low growing.
Melospiza melodia graminea	Channel Island song sparrow (Santa Barbara song sparrow)	FDE	Similar requirements of mainland song sparrow. Require moderately dense scrubby vegetation for nesting, escape cover, and foraging; a source of standing or running water or, in dry scrub habitats, constant moisture from fog or dew; adequate light; and exposed ground or leaf litter for foraging. Most numerous in areas of dense shrubs and thickets of giant Coreopsis (*Leptosyne gigantea*), but they might inhabit grasslands with scattered shrubs. Defend areas of significantly higher vegetation and more shrubs and often locate their nests in shrubbery of densely vegetated gullies. Build heavier nests and locate their nests away from strong prevailing northwest winds and deep within the nest plant.	No	No	**No Potential for Occurrence in the BSA.** This species has been declared extinct in 1983.
Passerculus sandwichensis beldingi	Belding's savannah sparrow	BCC SE	They are associated with coastal salt marshes in the upper intertidal marsh zone, which is above flood level except during very high spring tides. They forage on nearby mud flats, shorelines, and rock jetties.	No	No	**No Potential for Occurrence in the BSA.** The BSA lacks upper salt marsh and mudflat habitat used for nesting and foraging. It is too far inland and hydrologically disconnected from tidal

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						wetlands.
Selasphorus sasin	Allen's hummingbird	BCC	Allen's hummingbirds are found in sparse to dense scrub habitats and sparse to open woodlands. Distribution highly dependent on abundance of nectar sources. They nest on twig or fork of tree or shrub.	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA supports sparse scrub and weedy vegetation, which may provide limited foraging opportunities. The absence of shrubs or trees on the site does not support nesting for this species.
Spinus lawrencei	Lawrence's goldfinch	BCC	A California-endemic species that breeds in dry foothills and arid woodlands from the Coast Ranges to the western Sierra Nevada. Breeding habitat includes oak savannas and open chaparral where nesting occurs in shrubs or low branches of trees. Foraging is focused on native and non-native annuals and grasses. Roosting takes place in trees or dense shrubs within or near breeding and foraging areas, often communally outside of the nesting season.	Yes	Yes	**Low Potential for Occurrence in the BSA.** The BSA may provide minimal foraging opportunities due to presence of annual grasses and ruderal species. However, nesting and roosting habitat is absent. Occurrence potential limited to foraging opportunities.
Thalasseus elegans	elegant tern	BCC Season of Concern: nesting colony	Preferred habitats are inshore coastal waters, bays, estuaries, and harbors; rarely occurs far offshore, and never inland. Elegant terns primarily feed in shallow ocean waters beyond the turbulent breaker zone, but they may also forage in protected bays and lagoons. They congregate on beaches and tide flats when not feeding. It nests in colonies on undisturbed island beaches. Nest is a shallow scrape in sand.	Yes	No	**No Potential for Occurrence in the BSA.** The BSA is located inland and does not contain coastal waters, bays, or island beaches used by this species for nesting or foraging.
Toxostoma redivivum	California thrasher	BCC	Nests and forages in chaparral of coastal and foothill areas, as well as in nearby areas with junipers, pines, and oaks with plenty of underbrush, including sagebrush. Usually on or near ground. Breed in nests in bushes or small trees. Nest constructed by both adults.	Yes	No	**No Potential for Occurrence in the BSA.** Chaparral and dense sage scrub used for nesting and foraging are not present. The ruderal vegetation on site does not offer suitable structure or cover.
Tringa semipalmata	willet	BCC	Found along both coasts of North America, with the western population wintering along the Pacific coast and breeding inland across the western U.S. In California, it is primarily a winter resident of estuaries, mudflats, and sandy beaches. Breeding occurs farther inland in wet meadows and marsh edges where nests are placed on the ground in tall grasses. Foraging occurs in intertidal zones and mudflats. Roosting sites include open flats, salt marsh levees, or sandy beaches, typically near foraging areas	Yes	No	**No Potential for Occurrence in the BSA.** The BSA lacks estuarine, intertidal, or wet meadow habitat used by this species for wintering or breeding. No foraging or roosting habitat is present.

Legend and Notes

Notes

- **Yes** = the BSA is located within the wildlife species' known distribution, elevation range, and/or the BSA contains suitable habitats or conditions to support the species. The wildlife species has the potential to occur within the BSA. Further evaluation is needed.
- **No** = the BSA is located outside the wildlife species' known distribution, elevation range, and/or the BSA lacks suitable habitats or conditions to support the species. It is highly unlikely for the wildlife species to have a potential to occur within the BSA. No further evaluation is needed.
- **DPS = distinct population segment:** A DPS, or a distinct population segment, is a vertebrate population or group of populations that is discrete from other populations of the species and significant in relation to the entire species. The ESA provides for listing species, subspecies, or distinct population segments of vertebrate species.

Federal Endangered Species Act (ESA) Listing Codes: the ESA is administered by the USFWS and NMFS. The USFWS has primary responsibility for terrestrial and freshwater organisms, while the responsibilities of NMFS are mainly marine wildlife such as whales and anadromous fish such as salmon. For the purposes of the ESA, Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population segments. The official federal listing of Endangered and Threatened animals is published in 50 CFR § 17.11.

- **FE = federally listed as endangered:** any species of plant or animal that is in danger of extinction throughout all or a significant portion of their range.
- **FT = federally listed as threatened:** any species of plant or animal that is considered likely to become endangered throughout all or a significant portion of its range within the foreseeable future.
- **FC = federal candidate for listing:** candidate species are plants and animals for which the USFWS has sufficient information on their biological status and threats to propose them for listing as endangered or threatened under the ESA, but for which development of a proposed listing regulation is precluded by higher priority listing actions to address species in greater need. A proposed regulation has not yet been published in the Federal Register for these species.
- **FPE = federally proposed for listing as endangered:** a candidate species that has been proposed by USFWS or NMFS for listing as endangered and the proposed rule, but not a final rule, to list has been published in the Federal Register.

Legend and Notes

- **FPT = federally proposed for listing as threatened:** a candidate species that has been proposed by USFWS or NMFS for listing as threatened and the proposed rule, but not a final rule, to list has been published in the Federal Register.
- **FPD = federally proposed for delisting:** a species that has been proposed by USFWS or NMFS for delisting (or down listing from endangered to threatened) and the proposed rule to delist has been published in the Federal Register.
- **FDR = federally delisted (recovered):** a species that has been removed from the federal list of endangered and threatened species by USFWS or NMFS due to meeting recovery criteria, with the final rule published in the Federal Register.
- **FDE = federally delisted (extinct):** a species that has been removed from the federal list of endangered and threatened species by USFWS or NMFS due to extinction, with the final rule published in the Federal Register.

California Endangered Species Act (CESA) Listing Codes: the CESA is administered by CDFW. The official listing of *Animals of California Declared To Be Endangered or Threatened* is contained in the California Code of Regulations, Title 14, § 670.5. Species and subspecies of California native animals are declared to be endangered or threatened as defined by §§ 2062 and 2067 of the Fish and Game Code.

- **SE = state-listed as endangered:** "endangered species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease (Fish and Game Code § 2062).
- **ST = state-listed as threatened:** "threatened species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts (Fish and Game Code § 2067).
- **SCE = state candidate for listing as endangered:** a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed published in the California Regulatory Notice Register as being under review by CDFW for addition to the list of endangered species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to add the species to the list (Fish and Game Code § 2068).
- **SCT = state candidate for listing as threatened:** a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed by publication in the California Regulatory Notice Register as being under review by CDFW for addition to the list of threatened species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to add the species to the list (Fish and Game Code § 2068).
- **SCD = state candidate for delisting:** a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed published in the California Regulatory Notice Register as being under review by CDFW for removal from either the list of endangered species or the list of threatened species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to remove the species to either list.

California Department of Fish and Wildlife (CDFW) Designations:

For some wildlife species, the CNDDB is only concerned with specific portions of the life history, such as roosts, rookeries, or nesting colonies. For many species of birds, the primary emphasis is on the breeding population in California. For some species which do not breed in California but winter here, emphasis is on wintering range. The SSC designation thus may include a comment regarding the specific protection provided such as nesting or wintering.

- **SSC = species of special concern:** a species of special concern is a species, subspecies, or distinct population of an animal (fish, amphibian, reptile, bird and mammal) native to California that currently satisfies one or more of the following (not necessarily mutually exclusive) criteria: is extirpated from the state or, in the case of birds, in its primary seasonal or breeding role; is listed as federally-, but not state-, threatened or endangered; meets the state definition of threatened or endangered, but has not formally been listed; is experiencing, or formerly experienced, serious (noncyclical) population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for state threatened or endangered status; has naturally small populations exhibiting high susceptibility to risk from any factor(s), that if realized, could lead to declines that would qualify it for state threatened or endangered status.
- **Fully protected:** fully protected animal species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of a fully protected bird species for the protection of livestock. Lists were created for fish (Fish and Game Code § 5515), amphibians and reptiles (Fish and Game Code § 5050), birds (Fish and Game Code § 3511) and mammals (Fish and Game Code § 4700).
- **WL = watch list:** this list includes birds identified in the *California Bird Species of Special Concern* (Shuford and Gardali, 2008) report and are not on the current CDFW species of special concern list, but were on previous lists and they have not been state-listed under CESA; were previously state or federally listed and now are on neither list; or are on the list of fully protected species.
- **Special Animals List:** a species tracked by the CNDDB, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species.".
- **California Fish and Game Code §§ 4800 – 4810:** The mountain lion (genus *Puma*) is a specially protected mammal under the laws of California. It is unlawful to take, injure, possess, transport, import, or sell any mountain lion or any part or product thereof, except as specifically provided in California Fish and Game Code §§ 4800 - 4810.
- Protected by § 460 of the California Code of Regulations [CCR], Title 14.

Global Ranking

The global rank (G-rank) is a reflection of the overall status of an element throughout its global range.

- GX: Presumed Extinct – Not located despite intensive searches and virtually no likelihood of rediscovery.
- GH: Possibly Extinct – Known from only historical occurrences but still some hope of rediscovery. Examples of evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss or degradation; (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct throughout its range.
- G1: Critically Imperiled – At very high risk of extinction due to very restricted range, very few populations or occurrences, very steep declines, very severe threats, or other factors.
- G2: Imperiled – At high risk of extinction due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.
- G3: Vulnerable – At moderate risk of extinction due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.
- G4: Apparently Secure – At fairly low risk of extinction due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.
- G5: Secure – At very low risk of extinction due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats.
- GNR: Unranked – Global rank not yet assessed.

State Ranking:

The state rank (S-rank) is assigned in much the same way as the global rank, but state ranks refer to the imperilment status only within California's state boundaries.

- **SX: Presumed Extirpated – Species is believed to be extirpated from the state, and could not be located despite intensive searches of historical sites and other appropriate habitat. There is virtually no likelihood that it will be rediscovered.**
- **SH: Possibly Extirpated – Known from only historical records but still some hope of rediscovery. There is evidence that the species may no longer be present in the state, but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss or degradation; (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the jurisdiction.**
- **S1: Critically Imperiled – At very high risk of extirpation in the state due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors.**

Legend and Notes
• **S2: Imperiled – At high risk of extirpation in the state due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.** • **S3: Vulnerable – At moderate risk of extirpation in the state due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.** • **S4: Apparently Secure – At a fairly low risk of extirpation in the state due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of recent declines, threats, or other factors.** • **S5: Secure – At very low or no risk of extirpation in the state due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats.** • **SNR: Unranked – State rank not yet assessed.** ***United States Fish and Wildlife Service (USFWS) Designations:*** • **FSC = federal species of concern:** federal species of concern is an informal term. It is not defined in the ESA. The term commonly refers to species that are declining or appear to be in need of conservation. • **BCC = bird of conservation concern:** a bird of conservation concern is listed in the USFWS' 2008 *Birds of Conservation Concern* report. The report identifies species, subspecies, and populations of all migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that, without additional conservation actions, are likely to become candidates for listing under the ESA. While all of the bird species included in the report are priorities for conservation action, the list makes no finding with regard to whether they warrant consideration for ESA listing. • **BCC-BCR = bird of conservation concern within bird conservation regions:** a bird of conservation concern within bird conservation regions, as opposed to being a concern across their entire range.

4.3. BIOLOGICAL RECONNAISSANCE SURVEY

4.3.1. Vegetation

4.3.1.1. Vegetation Communities Descriptions

Determining vegetation communities is critical for understanding the natural processes of the area and informs potentials for wildlife and plant species to occur. Due to the disturbed nature of the BSA, the Holland vegetation classification was used (1986). This classification relies on more qualitative or descriptive analysis compared to the 2009 Manual of California Vegetation which relies on quantitative measurements (i.e. vegetation transects) (Sawyer et al.). One vegetation community was determined within the site. Description of this community found within is discussed below. A map that illustrates all onsite plant communities is included in **Exhibit V,** *Vegetation Communities.*

Disturbed - Ruderal
Disturbed/Developed areas are those with a high percentage of non-native vegetation with a low to zero percentage of native vegetation.

The project area is largely dominated by non-native species such as redstem filaree (*Erodium cicutarium*), annual bluegrass (*Poa annua*), and bur clover (*Medicago polymorpha*). Several mature beet (*Beta vulgaris*) plants were found growing along the southern boundary of the project site, adjacent to the dirt road bordering the fence. Small patches of native species including mulefat (*Baccharis salicifolia*) and coyotebrush (*Baccharis pilularis*) were found in the center of the site. Arroyo lupine (*Lupinus succulentus*) was the dominant native species and occurred alongside redstem filaree, annual bluegrass, and bur clover throughout the site. The majority of the project site is open habitat, consisting of herbaceous non-native species and a dirt road.

Exhibit V. Vegetation Communities



4.3.1.2. Sensitive Natural Communities

Sensitive natural communities are communities that are of limited distribution statewide or within a county or region and are often vulnerable. These communities may or may not contain special-status plants or their habitat. The literature review and survey found no sensitive vegetation communities within the BSA.

4.3.2. Plant Species

4.3.2.1. General

Plant species observed or detected during the site survey were characteristic of the existing site conditions. A full list of the plant species detected within the Survey Area is included in **Appendix C**, *Plant & Wildlife Species Observed/Detected Onsite*.

4.3.2.2. Special-Status Species

Of the twenty-two (22) special-status plant species found during the literature review, five (5) have *low* potential for occurrence, and seventeen (17) have *no* potential to occur in the BSA. Because of the survey area's disturbed habitat dominated by non-native vegetation, there is low to no potential for occurrence in the survey area for the sensitive species identified in the literature review. No focused botanical surveys are required.

4.3.3. Wildlife

4.3.3.1. General

Wildlife species observed or detected during the site survey were characteristic of the existing site conditions. A full list of the wildlife species detected within the Survey Area is included in **Appendix C**, *Plant & Wildlife Species Observed/Detected Onsite*.

Birds

Twenty-three (23) species were observed/detected within the BSA during the reconnaissance field surveys.

- American crow (*Corvus brachyrhynchos*)
- house finch (*Haemorhous mexicanus*)
- Say's phoebe (*Sayornis saya*)
- killdeer (*Charadrius vociferus*)
- greater yellowlegs (*Tringa melanoleuca*)
- western meadowlark (*Sturnella neglecta*)
- song sparrow (*Melospiza melodia*)
- house sparrow (*Passer domesticus*)
- northern mockingbird (*Mimus polyglottos*)
- black phoebe (*Sayornis nigricans*)
- Cassin's kingbird (*Tyrannus vociferans*)
- American pipit (*Anthus rubescens*)
- rufous-crowned sparrow (*Aimophila ruficeps*)
- mallard (*Anas platyrhynchos*)
- European starling (*Sturnus vulgaris*)
- yellow-rumped warbler (*Setophaga coronata*)
- white-crowned sparrow (*Zonotrichia leucophrys*)
- horned lark (*Eremophila alpestris*)
- American goldfinch (*Spinus tristis*)
- mourning dove (*Zenaida macroura*)
- lesser goldfinch (*Spinus psaltria*)
- pine siskin (*Spinus pinus*)
- Savannah sparrow (*Passerculus sandwichensis*)

Amphibians

One (1) amphibian species, the garden slender salamander (*Batrachoseps major*), was detected visually.

Reptiles:
One (1) reptile species, the western fence lizard (*Sceloporus occidentalis*), was detected visually.

Mammals
No mammals were detected visually or aurally during the survey; however, signs of small mammal presence were observed throughout the site. Burrows consistent with California ground squirrel (*Otospermophilus beecheyi*) and Botta's pocket gopher (*Thomomys bottae)* were abundant within the BSA.

4.3.3.2. Sensitive Wildlife Species

None of the thirty-five (35) special-status wildlife species identified in the literature review were present in the BSA, nor did any of the species have a high or moderate potential for occurrence.

SECTION 5. CONCLUSIONS AND RECOMMENDATIONS

5.1. SENSITIVE SPECIES

5.1.1. Sensitive Plants

Out of the twenty-two (22) sensitive plant species identified in the literature review, seven (7) have a low potential to be present in the BSA, while the remaining fifteen (15) have no potential. Focused surveys are only required for federally or state-listed endangered species when they are in bloom to ensure proper identification. Since the two federally listed species from the review have no potential to occur, no additional botanical surveys are needed. The seven (7) species with low potential are considered "sensitive" but are not listed, so further surveys are not required.

5.1.2. Sensitive Wildlife

Of the thirty-five (35) sensitive wildlife species identified in the literature review, five (5) have a low potential to occur due to potential foraging opportunities on site, and thirty (30) have no potential to occur. Although the BSA primarily serves as a migratory pathway and does not provide suitable breeding or nesting habitat for resident or breeding species, it should still be considered as having the potential for nesting. To minimize impacts, vegetation clearing or ground disturbing activities should be conducted during the non-breeding season (September 1 to February 14) in order to limit impacts to nesting birds. If vegetation clearing or ground disturbing activities need to take place during breeding season (February 15 through August 31), in order to remain in compliance with the Migratory Bird Treaty Act, a pre-construction nesting bird survey(s) will be required. The last survey day should be conducted no more than three days prior to the start of work.

The monarch butterfly is a migratory species whose potential for occurrence is limited to time of year. The BSA occurs within the overwintering range in coastal California. As the BSA lacks suitable habitat and the species is dependent on milkweed (*Asclepias* spp.) as a source of food and location where eggs are laid, we recommend including this species in pre-construction surveys. This would involve determining presence or absence of adult butterflies and milkweed, if neither are found, no additional mitigation efforts are needed. If present, a mitigation plan would be necessary to remain compliant with CEQA and could include a restoration plan, avoiding direct impacts to individuals and host plants, or compensatory mitigation.

SECTION 6. REFERENCES

California Department of Fish and Wildlife (CDFW)

2025. California Natural Diversity Database (CNDDB). RareFind Version 5. Database Query for the Tustin, California, USGS 7.5- minute quadrangles. Wildlife and Habitat Data Analysis Branch. Available URL: https://apps.wildlife.ca.gov/rarefind/view/RareFind.aspx [accessed 25 March 2025].

California Native Plant Society (CNPS)

A Manual of California Vegetation, Online Edition. California Native Plant Society, Sacramento, CA. Available URL: https://vegetation.cnps.org [accessed 25 March 2025].

2025. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Rare Plant Scientific Advisory Committee, California Native Plant Society, Sacramento, California. Available URL: http://www.rareplants.cnps.org [accessed 25 March 2025].

Cowardin, L. et al.

2013. Classification of Wetlands and Deepwater Habitats of the United States, Second Edition. Department of the Interior, Fish and Wildlife Service, Washington, D.C.

Hickman, J.C. (ed.)

2012. *The Jepson Manual: Higher Plants of California.* University of California Press, Berkeley, California.

Holland, R.F.

1986. *Preliminary Descriptions of the Terrestrial Natural Communities of California*. Unpublished report available from the California Department of Fish and Game, Sacramento, California.

Houston, A., L. D. Allen, S. M. Mendia, and B. E. Kus. 2024. Least Bell's Vireos and Southwestern Willow Flycatchers at the San Luis Rey Flood Risk Management Project Area in San Diego County, California: breeding activities and habitat use—2023 annual report. U.S. Geological Survey Open-File Report 2024–1040.

Jepson Herbarium (Jepson)

2025. Jepson eFlora, Available at: http://ucjeps.berkeley.edu/eflora/ [accessed 25 March 2025].

Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens. (Sawyer et al.)

2009. A Manual of California Vegetation, Second Edition. California Native Plant Society, Sacramento, CA.

Shuford, W. D., and Gardali, T.

2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Studies of Western Birds 1. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game, Sacramento

U.S. Department of Agriculture (USDA)

2025. Web Soil Survey, Natural Resources Conservation Service, United States Department of Agriculture. Official Soil Series Descriptions. Available URL: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx [accessed 25 March 2025].

U.S. Fish and Wildlife Service (USFWS)

2024. Light-footed Ridgway's rail. https://www.fws.gov/story/light-footed-ridgways-rail. Accessed [accessed 25 March 2025].

2025. Information for Planning and Consultation (IPAC) database. U.S. Fish and Wildlife Service, Atlanta GA. Available URL: https://ecos.fws.gov/ipac/location/index [accessed 25 March 2025].

APPENDIX A

SITE PHOTOGRAPHS

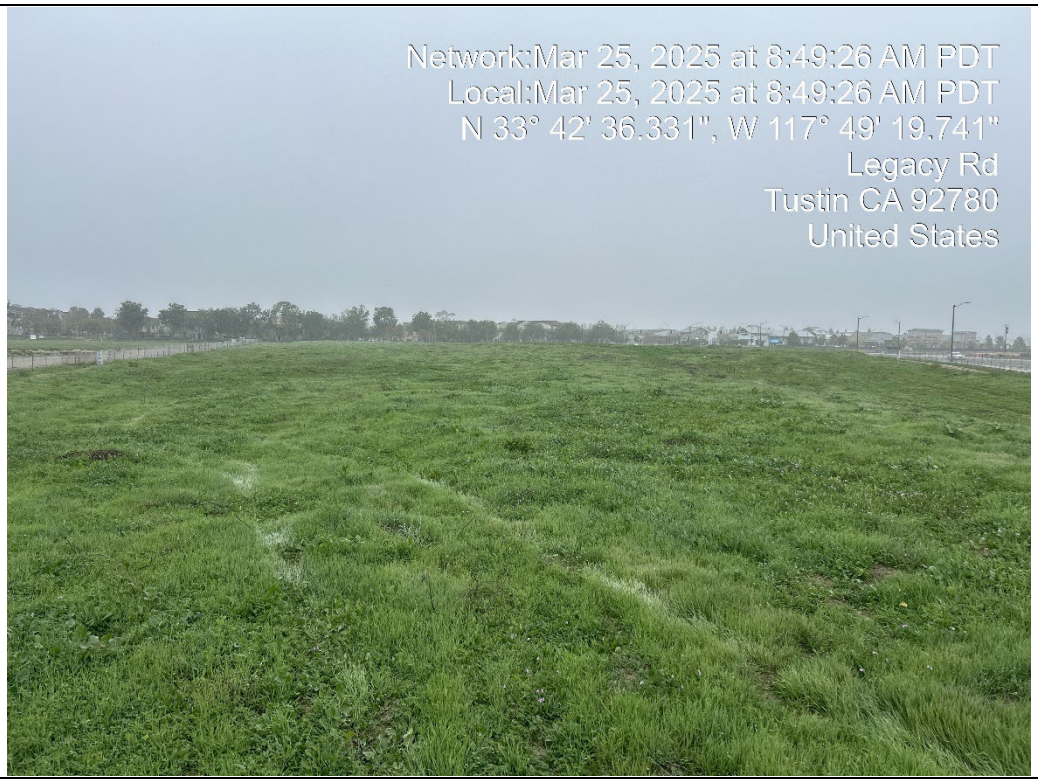


Photo 1: Site overview. View of the site from the southern corner of the parcel looking northwest towards Valencia Ave.

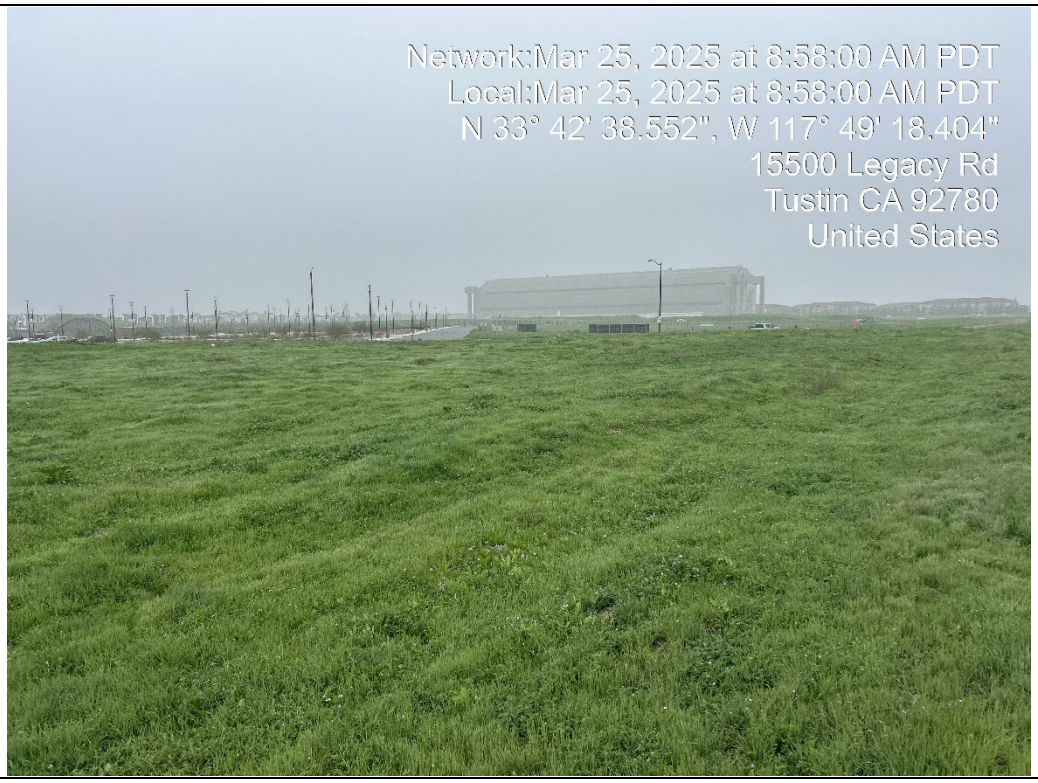


Photo 2: Site overview. View of the site from the western section of the parcel looking east towards Legacy Rd.



Photo 3: Site overview. View of northern section of the parcel looking north towards Valencia Ave. Non-native wall barley (*Hordeum murinum*) and redstem filaree (*Erodium cicutarium*) shown here.



Photo 4: Site overview. View of the northwest corner of the parcel looking northwest.



Photo 5: Site overview. View of the site from the northwest corner of the parcel looking south along western edge of the parcel.

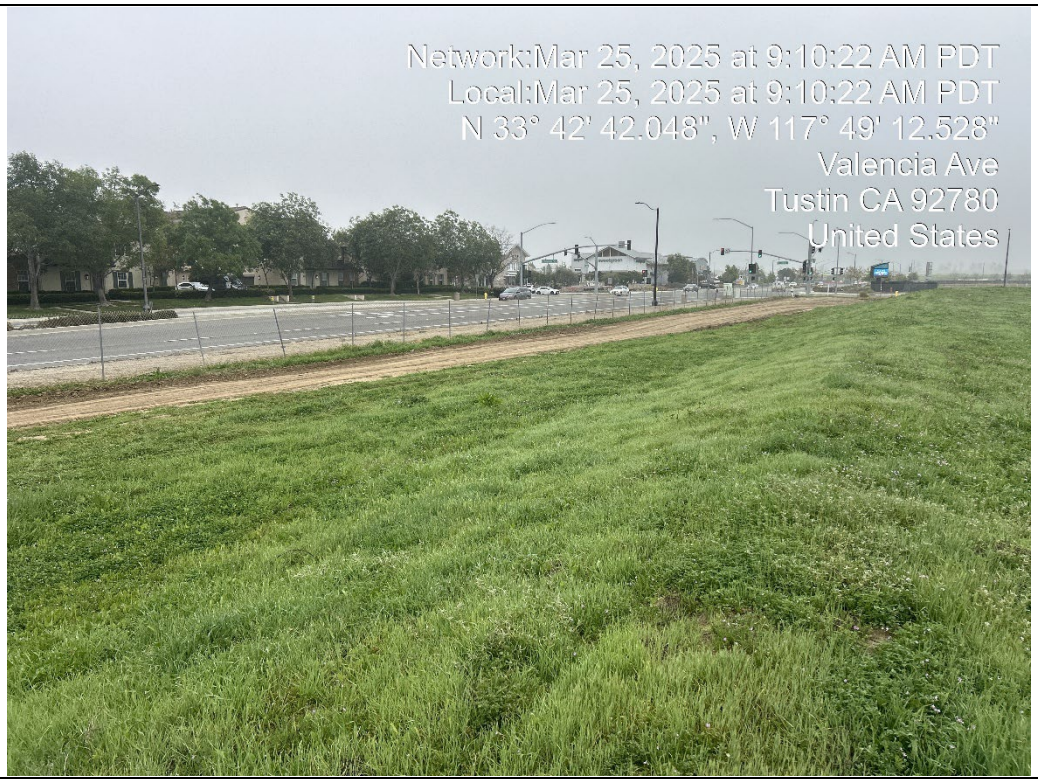


Photo 6: Site overview. View of the northwest boundary of the parcel (Valencia Ave.) facing north. Adjacent dirt road shown here.



Photo 7: **Site overview.** View of the northwest boundary of the parcel (Valencia Ave.) facing west. Adjacent dirt road shown here.

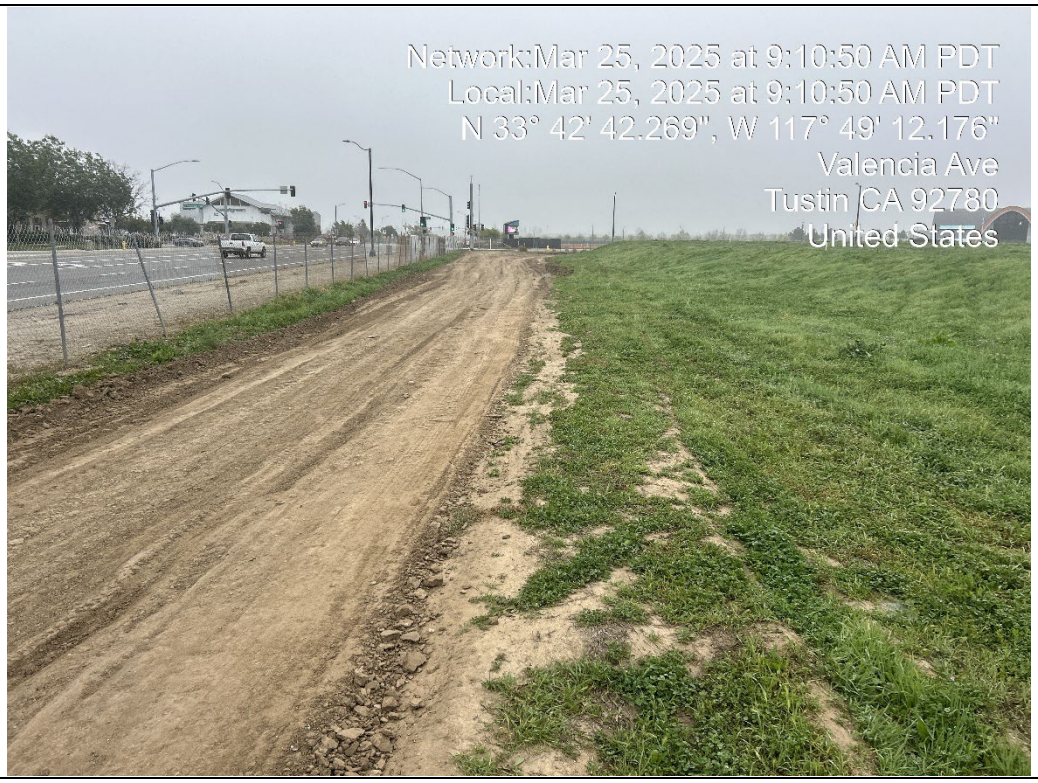


Photo 8: Site overview. View of the site from the northwest corner looking northeast along the northwest boundary of the parcel (Valencia Ave.) facing west. Adjacent dirt road shown here.



<u>Photo 9:</u> Site overview. View of the site along the northwest boundary of the parcel facing west. Orange cones mark the western boundary.



<u>Photo 10</u>: Site overview. View of the northern corner of the parcel looking east.



Photo 11: Site overview. View of the site along the northeastern boundary of the parcel looking south.



Photo 12: Site overview. View of the southern corner of the site facing west from the southern corner of the parcel.



Photo 13: Site overview. View of the vegetated mounds seen in the center of the parcel looking west.



Photo 14: Site overview. View of disturbed soil in the dirt road along the northwestern boundary, facing west. Native common fiddleneck (*Amsinckia intermedia*) shown here.



Photo 15: Site overview. Example of open grassy herbaceous layer that dominates the site.



Photo 16: Stormwater inlet adjacent to western edge of parcel, shown here.



Photo 17: Small mammal burrows seen throughout site.

APPENDIX B

BIOLOGICAL RECONNAISSANCE SURVEY FIELD FORMS

HANA RESOURCES

Biological Reconnaissance Survey Field Form

Date: 3/25/25 **Project Name:** Tustin USD Educational center

Job #: 7124 **Client:** PlaceWorks

Surveyor(s): Ash Walker, Austin Isakson

LOCATION DESCRIPTION

Site Address: Legacy Rd. + Valencia Ave. **City, State:** Tustin, CA

Habitat Types Present: herbaceous non-natives, urban, residential, open space

Current Land Uses: developed, open space

Start (time)	7:20 AM
Temp (ºF)	56° F
Cloud Cover (%)	100 %
Precipitation	0
Wind (mph)	1 mph

End (time)	10:00 AM
Temp (ºF)	65° F
Cloud Cover (%)	100 %
Precipitation	0
Wind (mph)	2 mph

NOTES: (Nest locations and species behavioral notes, disturbances, habitat conditions, etc.)

- Habitat Assessment:
  - Small mammal burrows at moderate → high density throughout site
  - Compacted dirt road along NE + SE boundary
  - Site is mostly comprised of herbaceous non-natives, mostly open area

- Wildlife Survey:
  - Almost all wildlife observations were birds, w/ one amphibian species and one reptile species also observed
  - Mammal presence was only identified by sign (burrows)

- Other:
  - Grade 6-12 magnet school adjacent to Legacy RD = high volume traffic during morning hours
  - Site is adjacent to open area w/ 2 large hangars on NW + SW boundary.

* = Non-Native

PLANT SPECIES OBSERVATIONS

	PLANT SPECIES PRESENT Specify plant layer as herb (h), shrub (s), or tree (t)	
	Species	**Layer**
*	Wall Barley	H
*	redstem-filaree	H
*	Cheeseweed mallow	H
*	Russian thistle (S. tragus)	H
*	Common Sow-thistle	H
*	Bur Clover	H
*	Small Melilot	H
*	Shortpod mustard	S H
*	Red Brome	H
*	black mustard	S
*	Mexican fan palm	T
*	Berry saltbush	H
	Common fiddleneck	H
*	pigweed	H
*	Beet	S
*	Slender oat	H
*	Common groundsel	H
*	Poa Annua	H
	Arroyo Lupine	H
*	Field bindweed	H
	Brisly oxtongue	H
*	~~Salt/ce~~ Saltcedar	S
	Mulefat	S
*	Field mustard	H
	Coyotebrush	S
*	Fineleaf fumitory	H

	PLANT SPECIES PRESENT Specify plant layer as herb (h), shrub (s), or tree (t)	
	Species	**Layer**

Biologist Signature: _____ **Date:** 3/25/25

WILDLIFE SPECIES OBSERVATIONS

WILDLIFE SPECIES PRESENT Specify observation type as aural (a), sign (s), or visual (v)	
Species	**Observation**
American crow	a
house finch	a, v
Savannah sparrow	a, v
small mammal sp	s
Says Phoebe	v
killdeer	a
greater yellowlegs	a
western meadowlark	a
song sparrow	v, a
house sparrow	v, a
northern mockingbird	v, a
black phoebe	v, a
Cassin's kingbird	v, a
American pipit	v, a
rufous-crowned sparrow	v, a
garden slender salamander	v
western fence lizard	v
mallard	a
European starling	a, v
yellow-rumped warbler	a, v
white-crowned sparrow	v
horned lark	a, v
American goldfinch	a, v
mourning dove	a, v
lesser goldfinch	v
Pine Siskin	v

WILDLIFE SPECIES PRESENT Specify observation type as aural (a), sign (s), or visual (v)	
Species	**Observation**

Biologist Signature: _____ **Date:** 3/25/25

APPENDIX C

PLANT & WILDLIFE SPECIES OBSERVED/DETECTED ONSITE

Scientific Name	Common Name
EUDICOTS	
AMARANTHACEAE	**PIGWEED FAMILY**
**Salsola tragus*	Russian thistle
**Atriplex semibaccata*	berry saltbush
**Amaranthus blitoides*	prostrate pigweed
**Beta vulgaris*	beet
ASTERACEAE	**SUNFLOWER FAMILY**
**Sonchus oleraceus*	common sow-thistle
**Senecio vulgaris*	common groundsel
**Helminthotheca echioides*	bristly oxtongue
Baccharis salicifolia	mulefat
Baccharis pilularis	coyote brush
BORAGINACEAE	**BORAGE FAMILY**
Amsinckia intermedia	common fiddleneck
BRASSICACEAE	**MUSTARD FAMILY**
**Hirschfeldia incana*	shortpod mustard
**Brassica nigra*	black mustard
**Brassica rapa*	field mustard
CONVOLVULACEAE	**MORNING GLORY FAMILY**
**Convolvulus arvensis*	field bindweed
FABACEAE	**LEGUME FAMILY**
**Medicago polymorpha*	bur clover
**Melilotus indicus*	small memlilot
Lupinus succulentus	arroyo lupine
GERANIACEAE	**GERANIUM FAMILY**
**Erodium cicutarium*	redstem filaree
MALVACEAE	**MALLOW FAMILY**
**Malva parviflora*	cheeseweed mallow
PAPAVERACEAE	**POPPY FAMILY**
**Fumaria parviflora*	fineleaf fumitory
TAMARICACEAE	**TAMARISK FAMILY**
**Tamarix ramosissima*	saltcedar
MONOCOTS	
Arecaceae ARECACEAE	**PALM FAMILY**
**Washingtonia robusta*	Mexican fan palm
POACEAE	**GRASS FAMILY**
**Hordeum murinum*	wall barley
**Bromus madritensis*	red brome
**Avena barbata*	slender oat
**Poa annua*	poa annua
Legend	
*= Non-native/ invasive species	

Scientific name	Common Name
Amphibians	
Batrachoseps major	garden slender salamander
Reptiles	
Sceloporus occidentalis	western fence lizard

Mammals	
Class Mammalia	small mammal spp.
Birds	
Aimophila ruficeps	rufous-crowned sparrow
Anas platyrhynchos	mallard
Anthus rubescens	American pipit
Charadrius vociferus	killdeer
Corvus brachyrhynchos	American crow
Eremophilia alpestris	horned lark
Haemorhous mexicanus	house finch
Melospiza melodia	song sparrow
Mimus polyglottos	northern mockingbird
Passer domesticus	house sparrow
Passerculus sandwichensis	savannah sparrow
Sayornis nigricans	black phoebe
Sayornis saya	Say's phoebe
Setophaga coronata	yellow-rumped warbler
Spinus pinus	pine siskin
Spinus psaltria	lesser goldfinch
Spinus tristis	American goldfinch
Sturnella neglecta	western meadowlark
**Sturnus vulgaris*	European starling
Tringa melanoleuca	greater yellowlegs
Tyrannus vociferans	Cassin's kingbird
Zenaida macroura	mourning dove
Zonotrichia leucophrys	white-crowned sparrow
*=Non-native or invasive species	

APPENDIX D

USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY

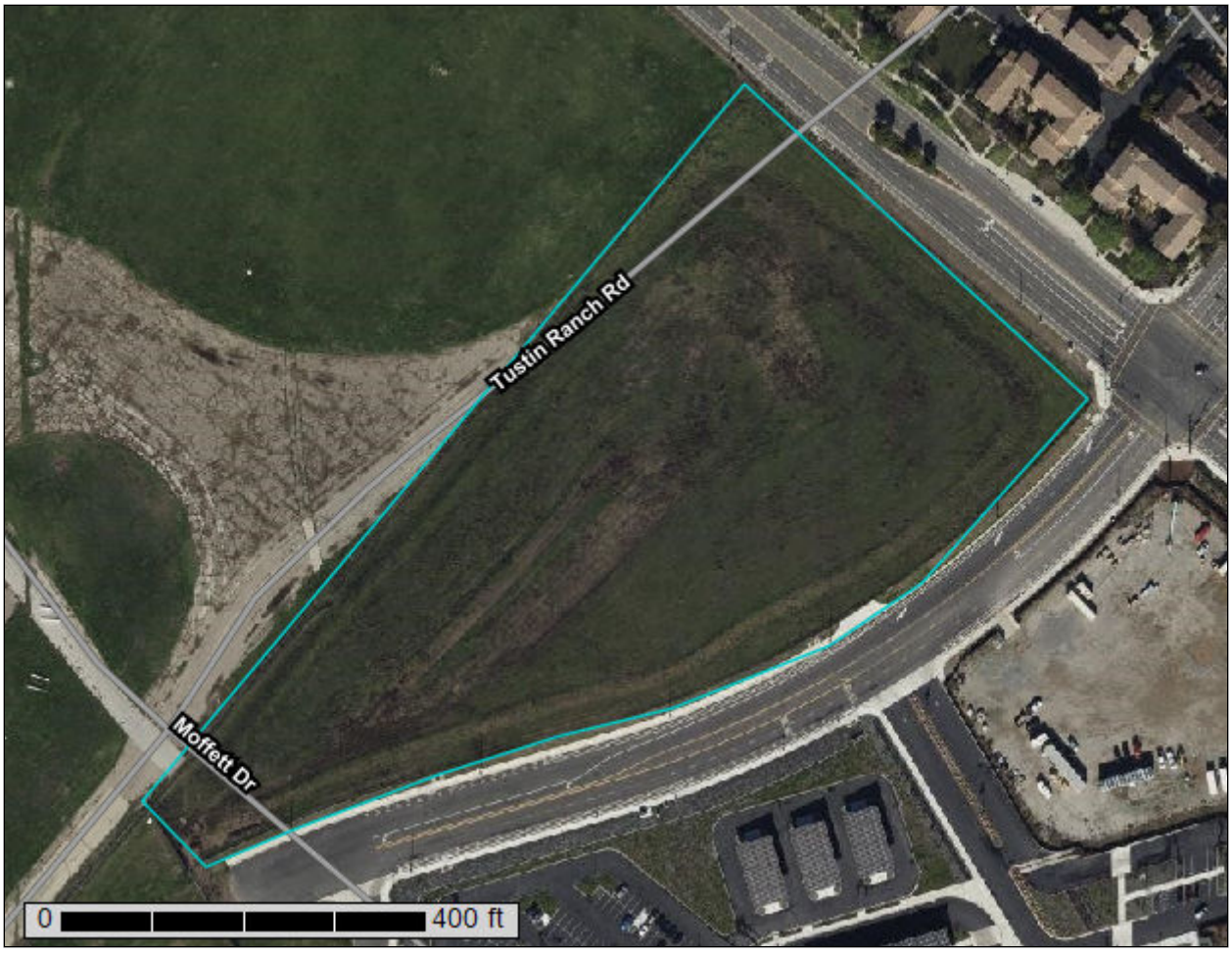
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Orange County and Part of Riverside County, California



March 24, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:2,220 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 30 60 120 180

Feet
0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Orange County and Part of Riverside County, California
Survey Area Data: Version 18, Aug 30, 2024

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

Date(s) aerial images were photographed: Jan 17, 2023—Feb 8, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
140	Chino silty clay loam, drained	8.6	100.0%
Totals for Area of Interest		**8.6**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Orange County and Part of Riverside County, California

140—Chino silty clay loam, drained

Map Unit Setting

National map unit symbol: hcmj
Elevation: 30 to 750 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 63 to 65 degrees F
Frost-free period: 320 to 365 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Chino and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chino

Setting

Landform: Alluvial fans
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sedimentary rock

Typical profile

A - 0 to 24 inches: silty clay loam
C1 - 24 to 37 inches: silty clay loam
C2 - 37 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water supply, 0 to 60 inches: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C
Ecological site: R019XG911CA - Loamy Fan
Hydric soil rating: No

Minor Components

Bolsa, silty clay loam

Percent of map unit: 10 percent
Landform: Alluvial fans
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Omni, clay

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Mocho, loam

Percent of map unit: 3 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Sorrento, clay loam

Percent of map unit: 2 percent
Landform: Fan remnants
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT

TUSTIN UNIFIED SCHOOL DISTRICT EDUCATION CENTER PROJECT

City of Tustin
Orange County, California

For Submittal to:

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Prepared for:

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June 28, 2025
Revised September 4, 2025
CRM TECH Contract No. 4252A

Title: Historical/Archaeological Resources Report: Tustin Unified School District Education Center Project, City of Tustin, Orange County, California

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USGS Quadrangle: Tustin, Calif., 7.5' quadrangle; Tract 46, T5S R9W, San Bernardino Baseline and Meridian

Project Size: Approximately nine acres

Keywords: Los Angeles Basin region, northeastern Orange County; Phase I cultural resources survey; no "historical resources" under CEQA

EXECUTIVE SUMMARY

Between March and June 2025, at the request of HANA Resources, CRM TECH performed a cultural resources study on approximately nine acres of undeveloped land in the City of Tustin, Orange County, California. The subject property of the study is located at the southwest corner of Legacy Road and Valencia Avenue, within the former boundaries of the decommissioned Marine Corps Air Station Tustin. It comprises a portion of Tract 46, Township 5 South, Range 9 West, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey Tustin, California, 7.5' quadrangle.

The study is a part of the environmental review process for the proposed construction of offices and outdoor event space for the Tustin Unified School District (TUSD). As the lead agency for the project, the TUSD required the study in compliance with the California Environmental Quality Act (CEQA). The purpose of the study is to provide the TUSD with the necessary information and analysis to determine whether the project would cause a substantial adverse change in the significance of a "historical resource," as defined by CEQA. In order to identify such resources, CRM TECH conducted a historical/archaeological resources records search, initiated a Sacred Lands File search, pursued historical background research, and carried out an intensive-level field survey.

Throughout the course of these research procedures, no potential "historical resources" were encountered within or adjacent to the project boundaries. Based on these findings, CRM TECH recommends to the TUSD a conclusion of *No Impact* regarding "historical resources." No further cultural resources investigation is recommended for the project unless development plans undergo such changes as to include areas not covered by this study. However, if buried cultural materials are discovered during earth-moving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

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INTRODUCTION

Between March and June 2025, at the request of HANA Resources, CRM TECH performed a cultural resources study on approximately nine acres of undeveloped land in the City of Tustin, Orange County, California (Fig. 1). The subject property of the study is located at the southwest corner of Legacy Road and Valencia Avenue, within the former boundaries of the decommissioned Marine Corps Air Station (MCAS) Tustin. It comprises a portion of Tract 46, Township 5 South, Range 9 West, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey (USGS) Tustin, California, 7.5' quadrangle (Figs. 2, 3).

The study is a part of the environmental review process for the proposed construction of offices and outdoor event space for the Tustin Unified School District (TUSD). As the lead agency for the project, the TUSD required the study in compliance with the California Environmental Quality Act (CEQA; PRC §21000, et seq.). The purpose of the study is to provide the TUSD with the necessary information and analysis to determine whether the project would cause a substantial adverse change in the significance of a "historical resource," as defined by CEQA.

In order to identify such resources, CRM TECH conducted a historical/archaeological resources records search, initiated a Sacred Lands File search, pursued historical background research, and carried out an intensive-level field survey. The following report is a complete account of the methods, results, and conclusion of the study. Personnel who participated in these research procedures are named in the appropriate sections below, and their qualifications are provided in Appendix 1.

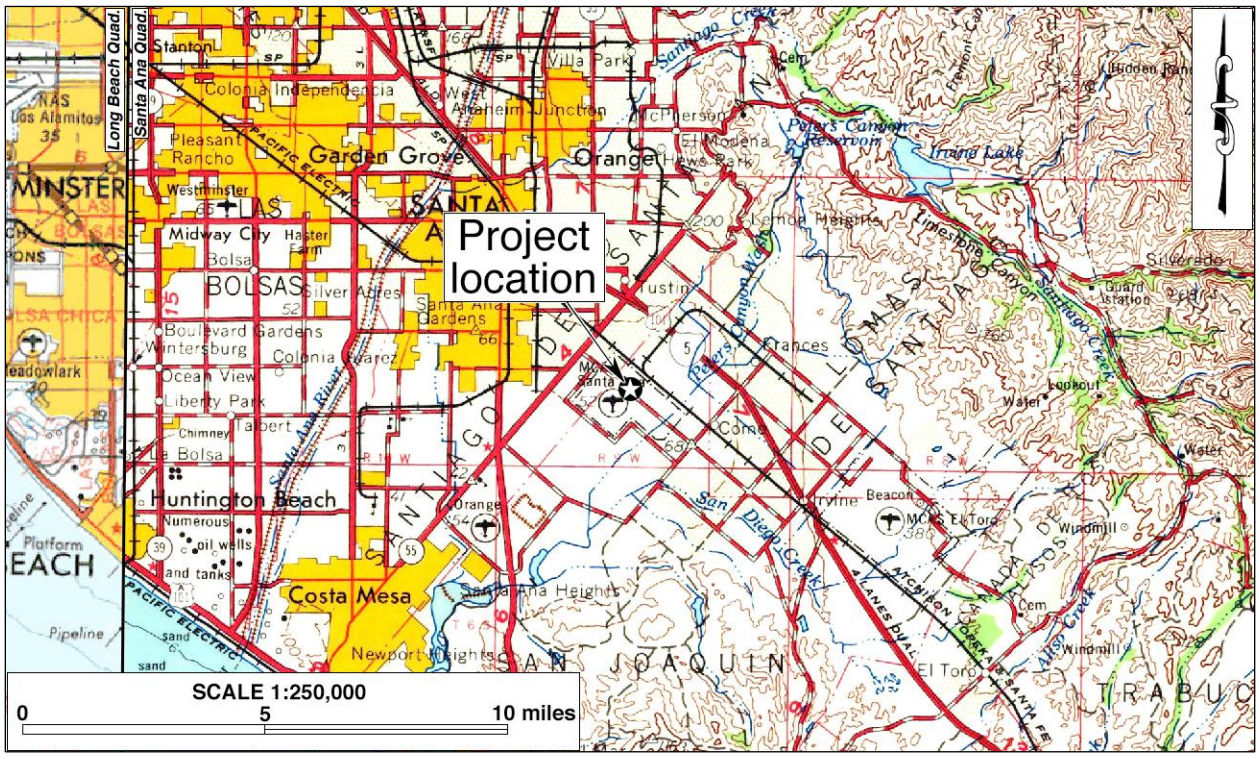


Figure 1. Project vicinity, based on USGS Long Beach and Santa Ana, Calif., 120'x60' quadrangles (USGS 1978; 1979).

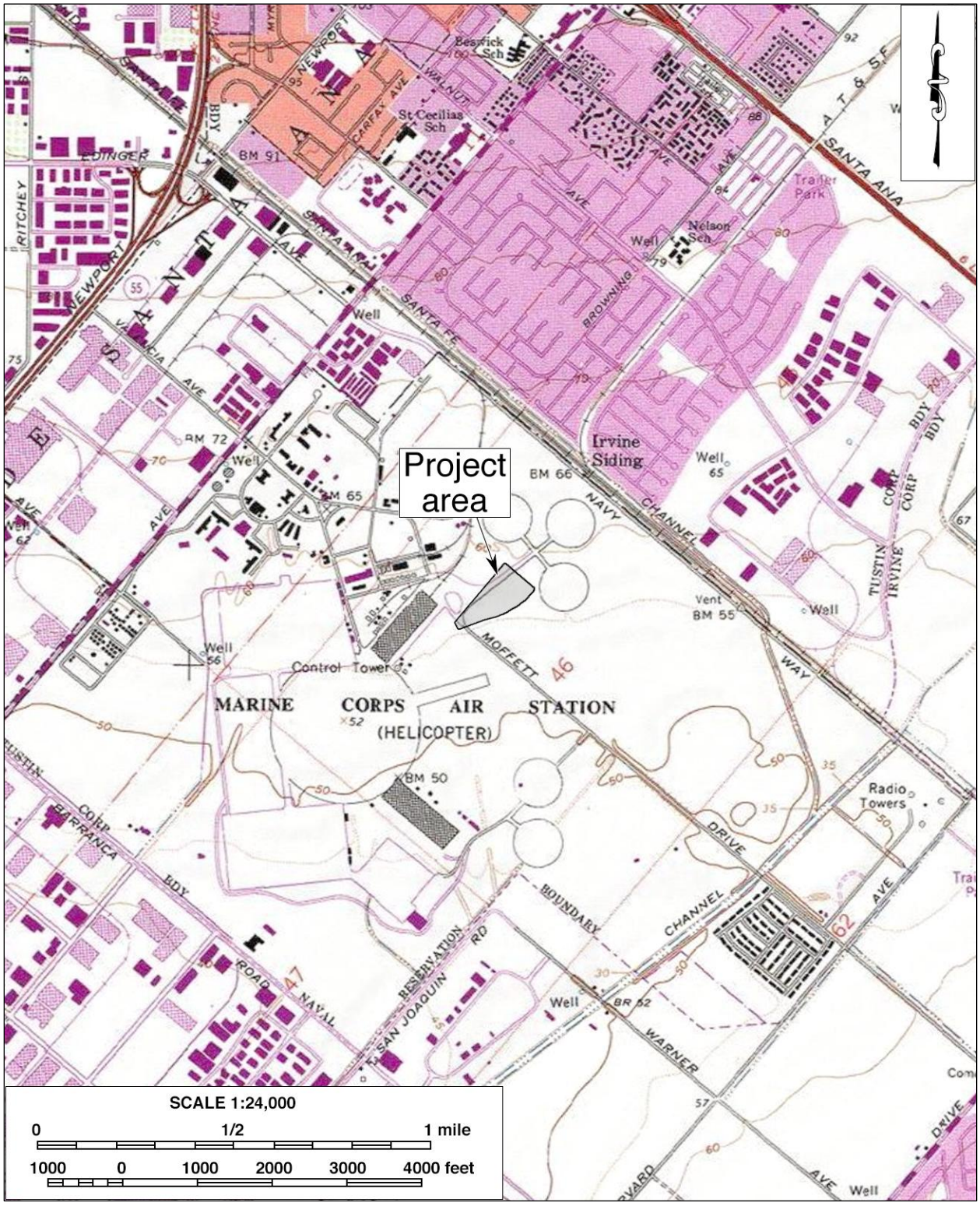


Figure 2. Project location, based on USGS Tustin, Calif., 7.5' quadrangle (USGS 1981).



Figure 3. Recent satellite image of the project area.

SETTING

NATURAL SETTING

The City of Tustin is located on the southeastern rim of the Los Angeles Basin, which is surrounded by the Palos Verdes Peninsula and the San Gabriel, Santa Monica, and Santa Ana Mountains. The region is a part of the Peninsular Ranges Province, a geomorphic province made up of a series of northwest-southeast trending structural blocks featuring uplifted mountains separated by valley basins that have developed along the intervening fault zones. The Mediterranean-type climate and environment of this region are marked by warm, dry summers and mild, rainy winters. In the general vicinity of the City of Tustin, summer temperatures average around 85ºF, and winter lows can dip below freezing. Average annual precipitation is less than 15 inches, most of which occurs in winter and early spring.

Situated in the southwestern portion of the City of Tustin, the project area is surrounded by residential neighborhoods and commercial buildings to the northeast, the Legacy Magnet Academy to the south, and remaining structures of the decommissioned MCAS Tustin to the west (Figs. 3). Within the project area, there is a stockpile of soil that spans the length of the project area as well as several soil mounds near the southern and northern boundaries, likely spoils from recent construction nearby. Elevations on the property range around 55 feet above mean sea level. In its native state, the project area would be a part of the California Coastal Scrub Plant Community, but vegetation observed includes primarily invasive species such as foxtails and black mustard (Fig. 4).



Figure 4. Current natural setting of the project area. (Photograph taken on May 9, 2025; view to the southwest)

CULTURAL SETTING

Prehistoric Context

It is widely acknowledged that human occupation in what is now the State of California began 8,000-12,000 years ago. In attempting to describe and understand the cultural processes that occurred in the ensuing years, archaeologists have developed a number of chronological frameworks that endeavor to correlate the technological and cultural changes that are observable in archaeological records to distinct time periods. The general framework for the prehistory of the southern Californian coastal region is outlined in Moratto (1984), which is the basis for the following discussion.

According to some theories, migration of indigenous groups from the interior deserts of southern California to the already inhabited coastal region took place around 7,500 years ago. Unfortunately, very little is known about the coastal groups during this early period in prehistory. With the immigration of people from the interior, a fusion of regional cultural traits, specifically those pertaining to subsistence procurement, occurred between the newcomers and original coastal inhabitants. The newcomers introduced new plant resources and plant-processing techniques to the coastal groups, and at the same time learned to exploit more intensively the littoral resources.

Archaeological investigations at various sites along the southern Californian coast have uncovered valuable data regarding later time periods in this region. Sites dating to the La Jolla I Period, ca. 5500-3500 B.C., have yielded numerous millingstone tools, crudely shaped scrapers, and flexed burials. The La Jolla II Period, ca. 3500-2000 B.C., is distinguished from the previous period by the presence of cemeteries, discoidals, and various projectile point types. Following this is the La Jolla III Period, ca. 2000-1000 B.C., which is characterized by the influence of Yuman cultural traits from the east on the coastal cultures.

With this second intrusion of eastern groups to the area, increased exploitation of terrestrial food sources further diminished the coastal people's dependence on littoral resources. With an increasing focus on acorn-processing activities, indigenous groups along the southern Californian coast slowly began settling the interior regions. There was also a shift from inhumation to cremation around 500 B.C., possibly another result of eastern influences.

Ethnohistoric Context

The Los Angeles Basin region is generally considered a part of the traditional territory of the Gabrielino, a Takic-speaking people who were considered among the most populous and powerful ethnic group in aboriginal southern California (Bean and Smith 1978:538). The Gabrielino's territory spanned from San Clemente Island along the coast to the present-day San Bernardino-Riverside area and south into southern Orange County, and their influence spread as far as the San Joaquin Valley, the Colorado River, and Baja California. The leading ethnographic sources on Gabrielino culture and history include Bean and Smith (1978), Miller (1991), and McCawley (1996). The following discussion is based mainly on these sources.

Prior to European contact, native subsistence practices were defined by the varying landscape and based primarily on gathering, cultivating, hunting, and fishing, exploiting nearly all of the resources

available in a highly developed seasonal mobility system. In inland areas, the predominant food sources included acorns, piñon nuts, other seeds, roots, wild fruits/berries, and wild onions. Medicinal and ceremonial plants such as yerba buena, elderberry, and sage were typically cultivated near villages. Common game animals included deer, antelope, rabbits, wood rats, fish, and waterfowl. Coastal Gabrielino utilized marine resources and had an advanced maritime navigation technology with an emphasis on the *ti'at*, the plank canoe (Gamble 2002).

Both inland and coastal Gabrielino populations had a variety of technological skills that they used to acquire subsistence, shelter, and medicine or to create ornaments and decorations. Common tools included manos and metates, mortars and pestles, hammerstones, fire drills, awls, arrow straighteners, and stone knives and scrapers. These lithic tools were made from locally sourced material as well as those procured through trade or travel. The Gabrielino also used wood, horn, and bone spoons and stirrers as well as baskets for winnowing, leaching, grinding, transporting, parching, storing, and cooking. However, much of this material cultural, elaborately decorated, does not survive in the archaeological record. As usual, the main items found archaeologically relate to subsistence activities.

The intricacies of Gabrielino social organization are not well known, although evidence suggests the existence of a moiety system in which various clans belonged to one or the other of two main social/ cultural divisions. There also seems to have existed at least three hierarchically ordered social classes, topped with an elite consisting of the chiefs, their immediate families, and the very rich. Some individuals owned land, and property boundaries were marked by the owner's personalized symbol. Villages were politically autonomous, composed of nonlocalized lineages, each with its own leader. The dominant lineage's leader was usually the village chief, whose office was generally hereditary through the male line. Often several villages were allied under the leadership of a single chief. The villages were frequently engaged in warfare against one another, resulting in what some consider to be a state of constant enmity between coastal and inland Gabrielino groups.

As early as 1542, the Gabrielino were in contact with the Spanish during the historic expedition of Juan Rodríguez Cabrillo, but it was not until 1769 that the Spaniards took steps to colonize Gabrielino territory. Shortly afterwards, most of the Gabrielino people were incorporated into the mission system. Due to forced labor, dietary deficiencies, introduced diseases, and forceful reduction, Gabrielino population dwindled rapidly. By 1900, they had almost ceased to exist as a culturally identifiable group (Bean and Smith 1978:540). In recent decades, however, there has been a renaissance of Native American activism and cultural revitalization among groups of Gabrielino descendants, including the reconstruction and utilization of *ti'at* and incorporating the ethnographic names *Kizh* and *Tongva* into official documentation (Stickel 2016).

Historic Context

Shortly after the beginning of Spanish colonization of Alta California, the establishment of Mission San Gabriel Arcangel in 1771 and Mission San Juan Capistrano in 1776 absorbed the present-day Orange County area into the mission system. The first private European landholder in central Orange County was Juan Pablo Grijalva of San Diego, a former Spanish soldier who had served with the 1775 Juan de Anza overland expedition from Mexico (Beck and Haase 1974:37; Brigandi n.d.). In 1801, Grijalva received a provisional concession from the Spanish colonial government to a roughly

70,000-acre tract of land between the two missions (Brigandi n.d.). After Grijalva's death in 1806, his son-in-law José Antonio Yorba and grandson Juan Pablo Peralta petitioned to inherit the concession, which was approved in 1810 under the name of Rancho Santiago de Santa Ana (*ibid.*).

As the Yorba and Peralta families acquired additional acreage during the ensuing years, their landholdings eventually extended from the Riverside County line along the Santa Ana River to the Pacific Ocean (Brigandi n.d.; Santa Ana Historical Society n.d.). One of Yorba's sons, José Antonio Yorba II, settled in the area that would later become the City of Orange (Brigandi n.d.). In 1866, a member of the extended family, Leonardo Cota, defaulted on a loan from Abel Stearns, then the largest landowner in southern California (City of Orange Public Library n.d.). Rancho Santiago de Santa Ana was subsequently divided among the family members and the claimants in a lawsuit over the debt (*ibid*.).

In 1868, Columbus Tustin purchased 1,300 acres in the area and established Tustin City among the sycamore and wild mustard trees (Tustin Area Historical Society n.d.). During the 1870s-1880s, a major land boom swept through much of southern California following the completion of the Southern Pacific Railroad and the competing Atchison, Topeka and Santa Fe Railway. It was during this time that Tustin grew and saw the establishment of a hotel, a bank, three churches, and a horse-drawn trolley line, along with many new homes and groves (*ibid*.). By the 1890s, Tustin was a thriving agricultural community and had replaced groves of walnuts and apricots with Valencia oranges (*ibid*.; City of Tustin n.d.).

The town continued to grow, and its population reached over 900 by 1927, when Tustin was incorporated (Tustin Area Historical Society n.d.). In 1942, during World War II, Tustin was chosen as the site of two Lighter-than-Air Ship Hangars to house blimps tasked with patrolling the coast to protect ships and guard against enemy submarines, which became the root of MCAS Tustin (Weitze and Dolan 2000). After the war, Tustin saw accelerated growth in the 1950s, with the development of freeways, post-war industries, and quality schools attracting thousands of people to the city (Tustin Area Historical Society n.d.). Meanwhile, with the increasing diversification of its economic livelihood, Tustin's citrus acreage gradually gave way to urban expansion. Today, like the rest of northern and central Orange County, the Tustin is a fully urbanized community, with an estimated population of nearly 79,000 as of 2024 spread over an 11-square-mile area (USCB n.d.).

RESEARCH METHODS

RECORDS SEARCH

On March 27, 2025, CRM TECH archaeologist Eulices Lopez conducted the cultural resources records search at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton, which is the State of California's official cultural resource records repository for Orange County. During the records search, Lopez examined pertinent maps and records for previously identified cultural resources and existing cultural resources reports within a one-mile radius of the project area. Previously identified cultural resources include properties designated as California Historical Landmarks or Points of Historical Interest, as well as those listed in the National Register of Historic Places, the California Register of Historical Resources, or the California Historical Resources Inventory.

SACRED LANDS FILE SEARCH

On March 24, 2025, a written request was submitted to the State of California Native American Heritage Commission (NAHC) for a records search in the commission's Sacred Lands File. The NAHC is the State of California's trustee agency for the protection of "tribal cultural resources," as defined by California Public Resources Code §21074, and is tasked with identifying and cataloging properties of Native American cultural value, including places of special religious, spiritual, or social significance and known graves and cemeteries throughout the state. The response from the NAHC is summarized below and attached to this report in Appendix 2.

HISTORICAL RESEARCH

Historical background research for this study was conducted by principal investigator/historian Bai "Tom" Tang. Sources consulted during the research included published literature in local and regional history, historical maps of the City of Tustin, and aerial/satellite photographs of the project vicinity. The maps consulted were primarily USGS topographic maps dated 1896-1981, which are accessible at the USGS website. The aerial and satellite photographs, taken in 1946-2025, are available on the Nationwide Environmental Title Research (NETR) Online website and through Google Earth software.

FIELD SURVEY

On May 9, 2025, CRM TECH archaeologist Melissa Portilla carried out the field survey of the project area. The survey was completed on foot at an intensive level by walking a series of parallel transects oriented northeast-southwest and spaced 15 meters (approximately 50 feet) apart. In this way, the ground surface in the entire project area was systematically and carefully examined for any evidence of human activities dating to the prehistoric or historic period (i.e., 50 years or older). Ground visibility was generally poor (5-10%) in much of the project area due to either thick vegetation or the presence of soil stockpiles (Fig. 4). In light of the extent of past ground disturbances in the vicinity, however, the visibility level was not considered a major hindrance to the survey effort.

RESULTS AND FINDINGS

RECORDS SEARCH

The record search results indicate that the project area, either in segments or as a whole, was included in 10 previous surveys carried out between 1979 and 2008. Among these, six provided a literature review of research that had been conducted within the project area and its vicinity, while three studies were monitoring reports for development projects nearby. One study included a systematic field survey that was conducted on three parcels of land located on MCAS Tustin, two of which covered portions of the northern part of the project area. Despite this extensive coverage of the project area and its vicinity, no cultural resources were previously recorded within or adjacent to project boundaries. Since all of these past studies are now more than 10 years old, they are considered out-of-date for statutory compliance purposes today.

Outside of the project area but within the one-mile scope of the records search, SCCIC records identify 49 additional studies completed between 1978 and 2017, none of which was adjacent to the project area. In all, approximately 95% of the land within the records search scope has been surveyed. The results of these studies suggest that the project area lies in two archaeologically and historically noteworthy areas, Irvine Ranch and MCAS Tustin. The Irvine Ranch was originally made up of several Mexican and Spanish land grants in Orange County, spanning 100,000 acres (Schroth 1979). The first archaeological survey on the ranch was conducted in 1912, in which several shell midden sites were located (*ibid.*). By the late 1970s, as many as 600 archaeological sites had been found on the ranch (Strozier 1978).

Located within the Irvine Ranch property is the MCAS Tustin. In 1942, agricultural land that was formerly used to grow lima beans became the site of the Santa Ana Lighter-than-Air Base, which later became the MCAS Tustin (RBF Consulting and Petrone Communications 2008). The Station housed two massive blimp hangars, which were designated Buildings 28 and 29 by the U.S. Navy (*ibid.*). These buildings were among the largest wooden structures ever built, measuring 189 feet high, over 1,000 feet long, and just under 300 feet wide (Kuci 1974). At the end of World War II, MCAS Tustin was decommissioned and later recommissioned in 1951 to house helicopters and for Marine helicopter training and operations (*ibid.*; RBF Consulting and Petrone Communications 2008). In 1975, the station was listed in the National Register of Historic Places. In addition, it also contained a prehistoric archaeological site, designated 30-000381, which was destroyed by construction activities in 1971 (White and White 1993). MCAS Tustin was closed in 1999 (Weitze and Dolan 2000), and in 2023 Building 28 was lost to a fire.

According to SCCIC records, 20 cultural resources were previously recorded within the one-mile radius, as listed in Table 1. Thirteen of these were prehistoric (i.e., Native American) in origin. Among them were three archaeological sites and 10 isolates (i.e., localities with fewer than three artifacts), including Site 30-000381 mentioned above. All of these sites and isolates consisted of scattered groundstone, flaked-stone, and/or faunal artifacts. The other seven resources, including five sites and two isolates, dated to the historic period and included the Lighter-than-Air Ship Hangers, a segment of the Burlington Northern Santa Fe Railway, two buildings from the 1960s-1970s, and various refuse items. Among the 20 known cultural resources, the nearest to the project location was one of the two Lighter-than-Air Ship Hangers, the remains of which are located a few hundred feet to the west. All of the other sites and isolates were recorded at least one-third of a mile from the project area, including the surviving hanger.

SACRED LANDS FILE SEARCH

In response to CRM TECH's inquiry, the NAHC stated in a letter dated April 7, 2025, that the Sacred Lands File (SLF) identified no Native American cultural resources in the project vicinity (see App. 2). Noting that tribes do not always record their sacred sites in the SLF, however, the NAHC recommended that local Native American groups be consulted for further information and provided a referral list of 22 individuals associated with 11 local Native American groups who may have knowledge of such resources. The NAHC's reply is attached in Appendix 2 for reference by the TUSD in future government-to-government consultations with the pertinent tribal groups, if necessary.

Table 1. Previously Recorded Cultural Resources within the Scope of the Records Search			
Resource Number	**Date Recorded**	**Description**	**Approx. Distance from Project**
30-000381	1972	Prehistoric double-grooved arrowshaft straightener, mortar, metate	3/4 mile
30-001652/ CA-ORA-001652	2006	Prehistoric lithic scatter, shell, faunal bone	1/2 mile
30-001725/ CA-ORA-001725	2013	Prehistoric groundstone scatters, chipped stone artifacts, marine shells	3/4 mile
30-001726/ CA-ORA-001726	2013	Refuse pit, c. 1914-1945	3/4 mile
30-001760	2015	Historic-period artifact concentrations, c. 1820-1987, with a prehistoric mano	1/3 mile
30-100190	2011-2012	Isolate: prehistoric sandstone bowl fragment	3/4 mile
30-100191	2011-2012	Isolate: prehistoric chert projectile point	3/4 mile
30-100192	2011-2012	Isolate: historic-period broken metal arrow-shaped object	3/4 mile
30-100193	2011-2012	Isolate: historic-period broken metal arrow-shaped object	3/4 mile
30-100194	2011-2012	Isolate: prehistoric bifacial mano	1 mile
30-100195	2011-2012	Isolate: prehistoric bifacial mano fragment	1 mile
30-100196	2011-2012	Isolate: prehistoric bifacial mano fragments	1 mile
30-100197	2011-2012	Isolate: prehistoric bifacial mano fragment	1 mile
30-100198	2011-2012	Isolate: prehistoric shell fragments	3/4 mile
30-100199	2011-2012	Isolate: prehistoric metate fragment	1 mile
30-100200	2011-2012	Isolate: prehistoric metate fragments	1 mile
30-100201	2011	Isolate: prehistoric granitic pestle	1/2 mile
30-160312	1974-1975	Lighter-than-Air Ship Hangars, Marine Corps Air Station, 1943; listed in the National Register of Historic Places	300 feet
30-176663	2002	Burlington Northern Santa Fe Railway, 1885-1888	1/3 mile
30-176837	2006	Two buildings, 1963 and 1974	1 mile

HISTORICAL RESEARCH

Historical sources consulted for this study suggest that development activities in the project area began in the early 1940s with the establishment of what would eventually become MCAS Tustin (Figs. 5-10). Prior to that, the project area evidently remained unsettled and undeveloped, except perhaps as agricultural fields, although the original alignment of Valencia Avenue appeared to cross the southwestern tip of the property in the 1930s (Figs. 5-8). After the establishment of the military blimp and, later, helicopter base, the part of Valencia Avenue across the project area became known as Moffett Drive, and another road was built across the northwestern edge of the property, leading to the hangers and helipads nearby (Figs. 9, 10; NETR Online 1946-1980).

No other notable features were known to be present within the project boundaries during the historic period, as most of the property was left unused (Figs. 9, 10; NETR Online 1946-1980). After the closure of MCAS Tustin in 1999, both of these roads were eventually removed and replaced by new roads along the perimeters of the project area, with Valencia Avenue built in 2006-2007 and Legacy Road built in 2017-2019 (NETR Online 1980-2022; Google Earth 1994-2025). In the meantime, the entire project area was cleared in 2016-2017, but no further development occurred on the property after that (*ibid.*).

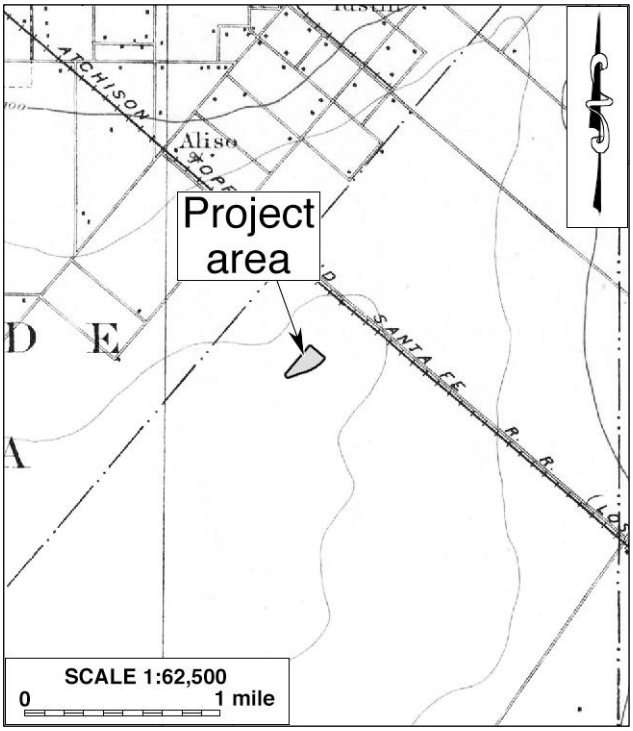


Figure 5. The project area and vicinity in 1894. (Source: USGS 1896)

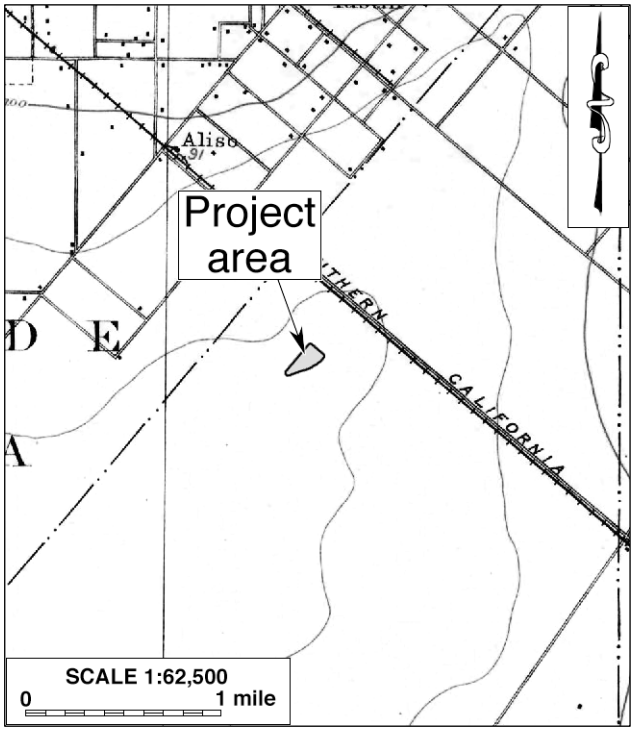


Figure 6. The project area and vicinity in 1900. (Source: USGS 1901)

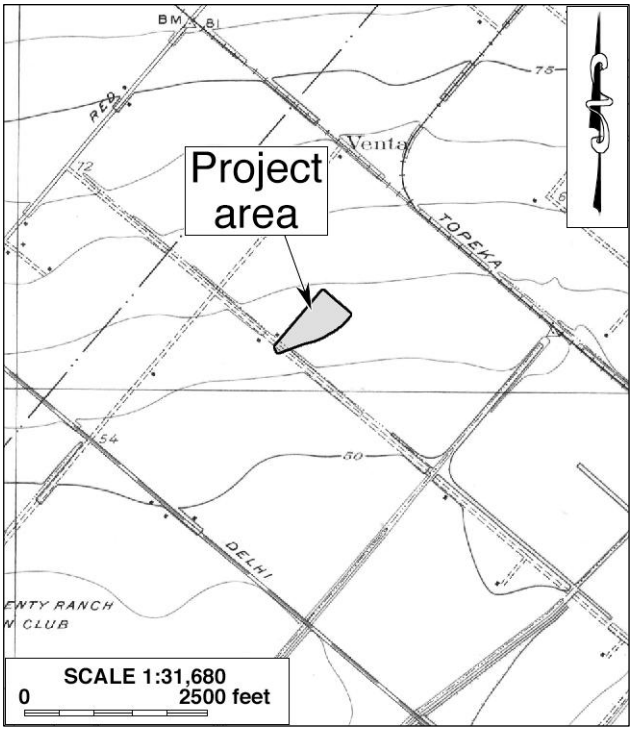


Figure 7. The project area and vicinity in 1932. (Source: USGS 1935)

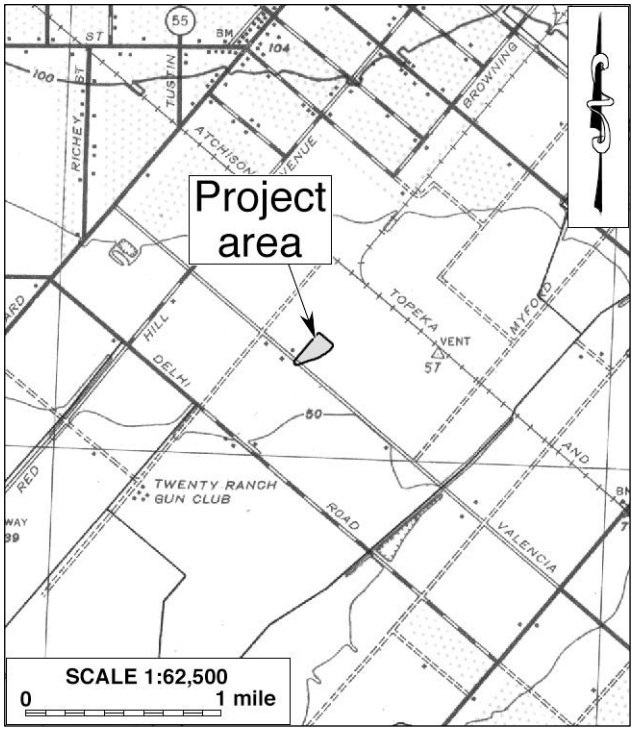


Figure 8. The project area and vicinity in 1940. (Source: USGS 1942)

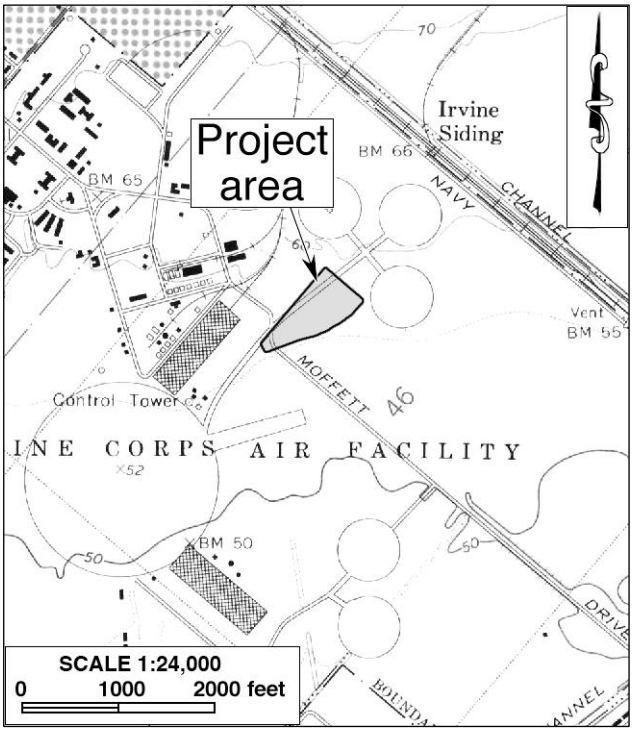


Figure 9. The project area and vicinity in 1946. (Source: USGS 1948)

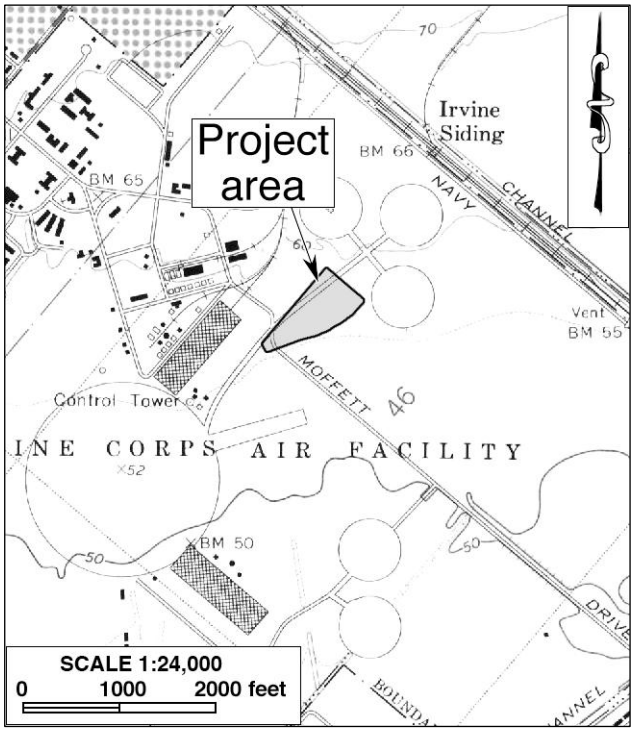


Figure 10. The project area and vicinity in 1963. (Source: USGS 1965)

FIELD SURVEY

The field survey yielded negative results for potential "historical resources," and no buildings, structures, objects, features, or artifacts of prehistoric or historical origin were observed within or adjacent to the project area. Some scattered refuse was observed throughout the project area, including crushed PVC pipe, plastic bottles, and broken pieces of concrete, but all of the items appeared to be modern in origin, and none of them is of any historical or archaeological interest. Field observations confirmed that the ground surface in the project area had been extensively disturbed in the past, most recently in relation to nearby construction activities, with little vestige of the natural landscape remaining today (Fig. 4).

DISCUSSION

The purpose of this study is to identify any cultural resources within the project area and to assist the TUSD in determining whether such resources meet the official definition of "historical resources," as provided in the California Public Resources Code, in particular CEQA. According to PRC §5020.1(j), "historical resource" includes, but is not limited to, any object, building, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California."

More specifically, CEQA guidelines state that the term "historical resources" applies to any such resources listed in or determined to be eligible for listing in the California Register of Historical Resources, included in a local register of historical resources, or determined to be historically significant by the lead agency (Title 14 CCR §15064.5(a)(1)-(3)). Regarding the proper criteria for the evaluation of historical significance, CEQA guidelines mandate that "generally a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing on the California Register of Historical Resources" (Title 14 CCR §15064.5(a)(3)). A resource may be listed in the California Register if it meets any of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
(2) Is associated with the lives of persons important in our past.
(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
(4) Has yielded, or may be likely to yield, information important in prehistory or history. (PRC §5024.1(c))

In summary of the research results presented above, no potential "historical resources" were previously recorded within the project area, and none was found during the present survey. The Native American Sacred Lands File identified no properties of traditional cultural value in the vicinity, and no notable cultural features, except roads that have since been removed, were known to be present in the project area throughout the historic period. Based on these findings, and in light of the criteria listed above, the present report determined that no potential "historical resources" exist within the project area.

CONCLUSION AND RECOMMENDATIONS

CEQA establishes that "a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (PRC §21084.1). "Substantial adverse change," according to PRC §5020.1(q), "means demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired." As stated above, this study has identified no "historical resources," as defined by CEQA and the associated regulations, within or adjacent to the project area. Therefore, CRM TECH presents the following recommendations to the TUSD:

- The proposed project will not cause a substantial adverse change to any known "historical resources."
- No further cultural resources investigation is recommended for the project unless development plans undergo such changes as to include areas not covered by this study.
- If buried cultural materials are discovered during earth-moving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

REFERENCES

Bean, Lowell John, and Charles R. Smith
1978 Gabrielino. In Robert F. Heizer (ed.): *Handbook of North American Indians*, Vol. 8: *California*; pp. 538-549. Smithsonian Institution, Washington, D.C.

Beck, Warren A., and Ynez D. Haase
1974 *Historical Atlas of California*. University of Oklahoma Press, Norman.

Brigandi, Phil
2006 *Orange County Place Names, A to Z*. Sunbelt Publications, El Cajon, California.
n.d. The Yorba Family Ranchos. https://www.ochistoryland.com/yorbaranchos.

City of Orange Public Library
n.d. City History ("History of Orange," "the Founding of Orange," and "the Six Ages of Downtown Orange"). https://www.cityoforange.org/411/History-of-Orange; https://www.cityoforange.org/940/The-Founding-of-Orange; https://www.cityoforange.org/941/The-Six-Ages-of-Downtown-Orange.

City of Orange Public Library
n.d. History of Orange. https://www.cityoforange.org/411/History-of-Orange.

City of Tustin
n.d. Tustin History. https://www.tustinca.org/833/Tustin-History.

Gamble, Lynn H.
2002 Archaeological Evidence for the Origin of the Plank Canoe in North America. *American Antiquity* 67(2):301-315.

Google Earth
1994-2025 Aerial photographs of the project vicinity; taken in 1994, 2002-2007, 2009-2011, and 2013-2025. Available through Google Earth software.

Kuci, R. A.
1974 30-160312: Lighter-than-Air Hangars, Marine Corps Air Station (Helicopter), Orange County, California. On file South Central Coastal Information Center, California State University, Fullerton.

McCawley, William
1996 *The First Angelinos: The Gabrielino Indians of Los Angeles*. Malki Museum Press/ Ballena Press, Banning/Novato, California.

Miller, Bruce W.
1991 *The Gabrielino*. Sand River Press, Los Osos, California.

Moratto, Michael J.
1984 *California Archaeology*. Academic Press, Orlando, Florida.

NETR Online
1946-2022 Aerial photographs of the project vicinity; taken in 1946, 1952, 1963, 1965, 1972, 1980, 1985, 1992-2000, 2002-2005, 2009, 2010, 2012, 2014, 2016, 2018, 2020, and 2022. http://www.historicaerials.com.

RBF Consulting and Petrone Communications
2008 The Tustin Hangars: Titans of History: An Historical Account of the MCAS Tustin Hangars. On file, South Central Coastal Information Center, California State University, Fullerton.

Santa Ana Historical Society
n.d. Rancho Santiago de Santa Ana: The Grijalva, Yorba, Peralta, and Sepulveda Families. https://www.santaanahistory.com/articles/ranchos.html.
Schroth, Adella
1979 The History of Archaeological Research on Irvine Ranch Property: The Evolution of a Company Tradition. On file, South Central Coastal Information Center, California State University, Fullerton.
Stickel, E. Gary
2016 *Why the Original Indian Tribe of the Greater Los Angeles Area Is Called Kizh Not Tongva*. Kizh Tribal Press, San Gabriel, California.
Strozier, Hardy
1978 The Irvine Company Planning Process and California Archaeology: A Review and Critique. On file, South Central Coastal Information Center, California State University, Fullerton.
Tustin Area Historical Society
n.d. Tustin History. https://tustinhistory.com/tustin-history/.
USCB (United States Census Bureau, U.S. Department of Commerce)
n.d. QuickFacts: Tustin City, California. https://www.census.gov/quickfacts/fact/table/tustincitycalifornia/POP010210#POP010210.
USGS (United States Geological Survey, U.S. Department of the Interior)
1896 Map: Santa Ana, Calif. (1:62,500); surveyed in 1894.
1901 Map: Santa Ana, Calif. (15', 1:62,500); surveyed in 1894, culture revised 1900.
1935 Map: Tustin, Calif. (1:31680); surveyed in 1932.
1942 Map: Santa Ana, Calif. (15', 1:62,500); surveyed in 1932-1940.
1948 Map: Tustin, Calif. (7.5', 1:24,000); aerial photographs taken in 1946.
1965 Map: Tustin, Calif. (7.5', 1:24,000); aerial photographs taken in 1963.
1978 Map: Long Beach, Calif. (120'x60', 1:250:000); 1957 edition revised.
1979 Map: Santa Ana, Calif. (120'x60', 1:250,000); 1959 edition revised.
1981 Map: Tustin, Calif. (7.5', 1:24,000); 1965 edition photorevised in 1978.
Weitze, Karen and Christy Dolan
2000 Historic American building Surve for the Marine Corps Air Station, Tustin Lighter-than-Air Ship Hangars (HABS No. CA-2707), Orange County, California. On file, South Central Coastal Information Center, California State University, Fullerton.
White, Robert S. and Laurie S. White
1993 An Extended Literature and Records Search Addressing Prehistoric Archaeological Resources Located within the Boundaries of the U.S. Marine Corps Air Station (MCAS), Tustin, Orange County, California. On file, South Central Coastal Information Center, California State University, Fullerton.

APPENDIX 1:
PERSONNEL QUALIFICATIONS

PRINCIPAL INVESTIGATOR, HISTORY
Bai "Tom" Tang, M.A.

Education

1988-1993	Graduate Program in Public History/Historic Preservation, University of California, Riverside.
1987	M.A., American History, Yale University, New Haven, Connecticut.
1982	B.A., History, Northwestern University, Xi'an, China.
2000	"Introduction to Section 106 Review," presented by the Advisory Council on Historic Preservation and the University of Nevada, Reno.
1994	"Assessing the Significance of Historic Archaeological Sites," presented by the Historic Preservation Program, University of Nevada, Reno.

Professional Experience

2002-	Principal Investigator, CRM TECH, Riverside/Colton, California.
1993-2002	Project Historian/Architectural Historian, CRM TECH, Riverside, California.
1993-1997	Project Historian, Greenwood and Associates, Pacific Palisades, California.
1991-1993	Project Historian, Archaeological Research Unit, University of California, Riverside.
1990	Intern Researcher, California State Office of Historic Preservation, Sacramento.
1990-1992	Teaching Assistant, History of Modern World, University of California, Riverside.
1988-1993	Research Assistant, American Social History, University of California, Riverside.
1985-1988	Research Assistant, Modern Chinese History, Yale University.
1985-1986	Teaching Assistant, Modern Chinese History, Yale University.
1982-1985	Lecturer, History, Xi'an Foreign Languages Institute, Xi'an, China.

Cultural Resources Management Reports

Preliminary Analyses and Recommendations Regarding California's Cultural Resources Inventory System (with Special Reference to Condition 14 of NPS 1990 Program Review Report). California State Office of Historic Preservation working paper, Sacramento, September 1990.

Numerous cultural resources management reports with the Archaeological Research Unit, Greenwood and Associates, and CRM TECH, since October 1991.

PRINCIPAL INVESTIGATOR, ARCHAEOLOGY
Michael Hogan, Ph.D., RPA (Registered Professional Archaeologist)

Education

1991	Ph.D., Anthropology, University of California, Riverside.
1981	B.S., Anthropology, University of California, Riverside; with honors.
2025	"Introductory Sedimentology for Archaeology," SAA Online Semina by Ervan Garrison.
2021	"An Introduction to Geoarchaeology: How Understanding Basic Soils, Sediments, and Landforms Can Make You a Better Archaeologist," SAA Online Seminar.
2002	"Section 106—National Historic Preservation Act: Federal Law at the Local Level," UCLA Extension Course #888.
2002	"Recognizing Historic Artifacts," workshop by Richard Norwood, Historical Archaeologist.
2002	"Wending Your Way through the Regulatory Maze," symposium by the Association of Environmental Professionals.
1992	"Southern California Ceramics Workshop," presented by Jerry Schaefer.
1992	"Historic Artifact Workshop," presented by Anne Duffield-Stoll.

Professional Experience

2002-	Principal Investigator, CRM TECH, Riverside/Colton, California.
1999-2002	Project Archaeologist/Field Director, CRM TECH, Riverside, California.
1996-1998	Project Director and Ethnographer, Statistical Research, Inc., Redlands, California.
1992-1998	Assistant Research Anthropologist, University of California, Riverside.
1992-1995	Project Director, Archaeological Research Unit, U.C. Riverside.
1991-1992	Crew Chief, Archaeological Research Unit, U.C. Riverside.
1984-1998	Project Director, Field Director, Crew Chief, and Archaeological Technician for various southern California cultural resources management firms.

Research Interests

Cultural Resource Management, Southern Californian Archaeology, Settlement and Exchange Patterns, Specialization and Stratification, Culture Change, Native American Culture, Cultural Diversity.

Cultural Resources Management Reports

Principal investigator for, author or co-author of, and contributor to numerous cultural resources management study reports since 1986.

Memberships

Society for American Archaeology; Society for California Archaeology; Pacific Coast Archaeological Society.

PROJECT ARCHAEOLOGIST/REPORT WRITER
Elizabeth L. Beckner, Ph.D.

Education

2024	Ph.D., Anthropology, University of California, Riverside.
2017	M.A., Anthropology, University of California, Riverside.
2016	B.A., Anthropology, University of California, Riverside.

Professional Experience

2024-	Project Archaeologist, CRM TECH, Colton, California.
2024-	Lecturer, California State University, San Bernardino.
2019-	Adjunct Instructor, Chaffey College, Rancho Cucamonga, California.
2019	Archaeologist, Dudek, Pasadena, California
2017-2019	Teaching Assistant, University of California, Riverside.
2018	Archaeologist, Proyecto Sacbé Cobá-Yaxuna (Sacbé Cobá-Yaxuna Project), Cobá, Quintana Roo, Mexico.
2016-2017	Field Assistant, Proyecto de Interacción Política del Centro de Yucatán (Political Interaction Project of Central Yucatan), Yaxuna, Yucatan, Mexico.
2015-2017	Information Officer, Eastern Information Center, Riverside, California.

Publication

2023	T.W. Stanton, Traci Ardren, Nicolas C. Barth, Juan C. Fernandez Diaz, Steph J. Miller, Karl A. Taube, Patrick Rohrer, Elizabeth Beckner;, and Aline Magnoni: Roads, Temples, and the Community Boundaries of Cobá, Quintana Roo. In T.H. Guderjan and J.P. Mathews (eds.): *Construction of Maya Space: Causeways, Walls, and Open Areas from Ancient to Modern Times*; pp. 71-98. University of Arizona Press, Tucson.

PROJECT ARCHAEOLOGIST
Melissa A. Portilla, B.A.

Education

2023	A.A. (*cum laude*), Anthropology, Fullerton College.
2019	B.A., Ancient History: Classics, University of Hawaii, Manoa.

Professional Experience

2023-	Project Archaeologist, CRM TECH, Colton, California.
2023-2024	Project Archaeologist, Psomas, Pasadena, California.
2020-2020	Collections Assistant, Museum of Us, San Diego, California.

PROJECT ARCHAEOLOGIST/NATIVE AMERICAN LIAISON
Eulices Lopez, B.S.

Education

2015	B.S., Anthropology, University of California, Riverside.
2013	A.A., Anthropology, East Los Angeles College, Monterey Park, California.

Professional Experience

2024-	Project Archaeologist, CRM TECH, Colton, California.
2017-2024	Deputy Coordinator, Eastern Information Center, University of California, Riverside.
2017-2024	Director Assistant, Archaeological Research Unit, University of California, Riverside.
2017-2024	Curator Facilitator, Archaeological Curation Unit, University of California, Riverside.
2014-2015	Information Officer, Eastern Information Center, University of California, Riverside.
2013	Lithic Analyst Assistant, Anthropology Department, East Los Angeles College, Monterey Park, California.
2012	Hominid Cast Fossils Cataloger, Anthropology Department, East Los Angeles College, Monterey Park, California.

APPENDIX 2

NATIVE AMERICAN SACRED LANDS FILE SEARCH RESULTS

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
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Luiseño

COMMISSIONER
Isaac Bojorquez
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COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Bennae Calac
Pauma-Yuima Band of Luiseño Indians

COMMISSIONER
Vacant

ACTING EXECUTIVE SECRETARY
Steven Quinn

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

April 7, 2025

Nina Gallardo
CRM TECH

Via Email to: ngallardo@crmtech.us

Re: Proposed Tustin USD District Offices Project, Orange County

To Whom It May Concern:

As requested, a record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed based on information submitted for the above referenced project. The results were negative. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. As such, a SLF search is not a substitute for consultation with all tribes that are traditionally and culturally affiliated with a project's geographic area.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. Please contact all of those listed; if they cannot supply information, they may recommend others with specific knowledge. If within two weeks of notification, a response has not been received, the Commission requests that you follow-up with a telephone call or email to ensure that the project information was received.

If you receive notification of a change of address or phone number from a tribe, please notify the NAHC so that we can assure that our lists contain current information.

In addition to engaging in tribal consultation, you should consult the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center to determine whether it has information regarding the presence of recorded archaeological sites within the project area.

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

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Orange County
4/7/2025

Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties
Cahuilla Band of Indians	F	Anthony Madrigal, Tribal Historic Preservation Officer	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549		anthonymad2002@gmail.com	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	Erica Schenk, Chairperson	52701 CA Highway 371 Anza, CA, 92539	(951) 590-0942	(951) 763-2808	chair@cahuilla-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	BobbyRay Esparza, Cultural Director	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549		besparza@cahuilla-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Gabrieleno Band of Mission Indians - Kizh Nation	N	Christina Swindall Martinez, Secretary	P.O. Box 393 Covina, CA, 91723	(844) 390-0787		admin@gabrielenoindians.org	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrieleno Band of Mission Indians - Kizh Nation	N	Andrew Salas, Chairperson	P.O. Box 393 Covina, CA, 91723	(844) 390-0787		admin@gabrielenoindians.org	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrieleno/Tongva San Gabriel Band of Mission Indians	N	Anthony Morales, Chairperson	P.O. Box 693 San Gabriel, CA, 91778	(626) 483-3564	(626) 286-1262	GTTribalcouncil@aol.com	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino Tongva Indians of California Tribal Council	N	Robert Dorame, Chairperson	P.O. Box 490 Bellflower, CA, 90707	(562) 761-6417	(562) 761-6417	gtongva@gmail.com	Gabrielino	Los Angeles, Orange, Riverside ,San Bernardino, Santa Barbara, Ventura
Gabrielino Tongva Indians of California Tribal Council	N	Christina Conley, Cultural Resource Administrator	P.O. Box 941078 Simi Valley, CA, 93094	(626) 407-8761		christina.marsden@alumni.usc.edu	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino/Tongva Nation	N	Sandonne Goad, Chairperson	106 1/2 Judge John Aiso St., #231 Los Angeles, CA, 90012	(951) 807-0479		sgoad@gabrielino-tongva.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino-Tongva Tribe	N	Charles Alvarez, Chairperson	23454 Vanowen Street West Hills, CA, 91307	(310) 403-6048		Chavez1956metro@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino-Tongva Tribe	N	Sam Dunlap, Cultural Resource Director	P.O. Box 3919 Seal Beach, CA, 90740	(909) 262-9351		tongvatcr@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Juaneno Band of Mission Indians Acjachemen Nation - Belardes	N	Joyce Perry, Cultural Resource Director	4955 Paseo Segovia Irvine, CA, 92603	(949) 293-8522		kaamalam@gmail.com	Juaneno	Los Angeles, Orange, Riverside, San Bernardino, San Diego
Juaneno Band of Mission Indians Acjachemen Nation 84A	N	Nathan Banda, Chairman	31411-A La Matanza Street San Juan Capistrano, CA, 92675	(949) 426-8804		nbanda@jbmian.com	Juaneno	Los Angeles, Orange, Riverside, San Bernardino, San Diego
Juaneno Band of Mission Indians Acjachemen Nation 84A	N	Shannon Wingfield, Secretary	31411-A La Matanza Street San Juan Capistrano, CA, 92675	(949) 488-3484		webmaster@jbmian.com	Juaneno	Los Angeles, Orange, Riverside, San Bernardino, San Diego
Juaneno Band of Mission Indians Acjachemen Nation 84A	N	Heidi Lucero, THPO/MLD	31411-A La Matanza Street San Juan Capistrano, CA, 92675	(562) 879-2884		thpo@jbmian.com	Juaneno	Los Angeles, Orange, Riverside, San Bernardino, San Diego
Pala Band of Mission Indians	F	Christopher Nejo, Legal Analyst/ Researcher	PMB 50, 35008 Pala Temecula Road Pala, CA, 92059	(760) 891-3564		cnejo@palatribe.com	Cupeno Luiseno	Orange, Riverside, San Bernardino, San Diego

Pala Band of Mission Indians	F	Alexis Wallick, Assistant THPO	PMB 50, 35008 Pala Temecula Road Pala, CA, 92059	(760) 891-3537		awallick@palatribe.com	Cupeno Luiseno	Orange, Riverside, San Bernardino, San Diego
Pala Band of Mission Indians	F	Shasta Gaughen, Tribal Historic Preservation Officer	PMB 50, 35008 Pala Temecula Road Pala, CA, 92059	(760) 891-3515		sgaughen@palatribe.com	Cupeno Luiseno	Orange, Riverside, San Bernardino, San Diego
Santa Rosa Band of Cahuilla Indians	F	Vanessa Minott, Tribal Administrator	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	(951) 659-2228	vminott@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Santa Rosa Band of Cahuilla Indians	F	Steven Estrada, Tribal Chairman	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	(951) 659-2228	sestrada@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Soboba Band of Luiseno Indians	F	Jessica Valdez, Cultural Resource Specialist	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-6261	(951) 654-4198	jvaldez@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Soboba Band of Luiseno Indians	F	Joseph Ontiveros, Tribal Historic Preservation Officer	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-5279	(951) 654-4198	jontiveros@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

Record: PROJ-2025-001807
Report Type: List of Tribes
Counties: Orange
NAHC Group: All

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Tustin USD District Offices Project, Orange County.

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PHASE I ENVIRONMENTAL SITE ASSESSMENT

DISTRICT OFFICES AND OUTDOOR EVENT CENTER
NORTHWEST OF VALENCIA AVE AND LEGACY RD
TUSTIN, ORANGE COUNTY, CALIFORNIA



Prepared for:

PlaceWorks on behalf of
Tustin Unified School District

MAY 2025

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

May 7, 2025
Project Number: 2501-0091

Dwayne Mears, Principal
PlaceWorks
3 MacArthur Place, Suite 1100
Santa Ana, California 92707

Subject: Phase I Environmental Site Assessment
District Offices and Outdoor Event Area, Tustin, California

Dear Mr. Mears,

Padre Associates, Inc. (Padre) at the request of PlaceWorks and on behalf of Tustin Unified School District has prepared this Phase I Environmental Site Assessment (ESA) report for the proposed District Offices and Outdoor Event Area, located southwest of the intersection of Valencia Avenue and Legacy Road in Tustin, Orange County, California.

The Phase I ESA was performed in general accordance with the American Society for testing and Materials (ASTM) Standard Practice Designation E 1527-21, and the school site selection requirements of the California Department of Toxic Substances Control (DTSC).

Padre appreciates the opportunity to provide environmental consulting services to PlaceWorks and Tustin Unified School District. If you have any questions or require additional information, please contact the undersigned at (916) 333-5920, Ext. 240.

Sincerely,

PADRE ASSOCIATES, INC.

Alan Churchill, P.G.
Senior Geologist

Alan J. Klein, R.E.P.A., C.P.E.S.C., QSD/QSP
Associate Senior Environmental Scientist

Cc: Tom Rizzuti, Director of Facilities and Planning, Tustin Unified School District
Mariana Zimmerman, Senior Associate II, PlaceWorks

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1.0 INTRODUCTION

Padre Associates, Inc. (Padre), on behalf of PlaceWorks and Tustin Unified School District (TUSD), completed a Phase I Environmental Site Assessment (ESA) for the proposed District Offices and Outdoor Event Center, located northwest of the intersection of Valencia Avenue and Legacy Road in Tustin, Orange County, California (Subject Property). The Subject Property is identified on **Plate 1 - Site Location** and **Plate 2 – Site Map.**

This ESA was prepared for use by TUSD as the owner of the Subject Property and as the User of the Phase I ESA. The Subject Property is located within the City of Tustin, Tustin Legacy Specific Plan, Neighborhood D, and is adjacent to the TUSD Legacy Magnet Academy within the former Marine Corps Air Station (MCAS) Tustin Base.

This Phase I ESA was completed in accordance with the guidelines outlined in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments promulgated in 2013 (ASTM E1527-13) with the inclusion of general modifications and revisions outlined in the recently revised and updated ASTM Standard Practice dated November 1, 2021 (ASTM E1527-21), and the U.S. Environmental Protection Agency's All Appropriate Inquiry (AAI). The objective of the ESA was to evaluate whether current or previous land use at or adjacent to the Subject Property may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment, resulting in the determination of a Recognized Environmental Condition (REC) at the Subject Property. A REC is defined by the updated ASTM E1527-21 as *(1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; and (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment.* The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de-minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additional key definitions from the updated ASTM E1527-21 standard include the following:

- Activity Use Limitation (AUL) - legal or physical restrictions or limitations on the use of, or access to, a site or facility: (a) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and / or surface water on the property, or (b) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.
- *Controlled Recognized Environmental Condition (CREC)* - recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (i.e., activity and use limitations or other property use limitations).

- *Environment* - includes navigable waters, the waters of the contiguous zone, and the ocean waters; and any other surface water, groundwater, drinking water supply, land surface, or subsurface strata. It should be noted that this ESA did not include a survey of asbestos-containing materials (ACM) or lead-based paint (LBP), nor did it include sampling and chemical analysis of any environmental media at the Subject Property.
- *Historical Recognized Environmental Condition (HREC)* - a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations, or other property use limitations). It should be noted that an HREC is not a Recognized Environmental Condition.
- *Migrate / Migration* - refers to the movement of hazardous substances or petroleum products in any form, including solid and liquid at the surface and subsurface, and vapor in the subsurface.
- *Property Use Limitation (PUL)* - limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allow hazardous substances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria.

To achieve the objective of the ESA, the following tasks were completed:

- A review of readily available geologic and hydrogeologic literature;
- Historical research including a review of available historical aerial photographs, Sanborn Fire Insurance Maps, historical city directories, and historical topographic maps relating to the Subject Property;
- A site reconnaissance of the Subject Property and adjacent properties;
- Interviews with knowledgeable persons of the Subject Property;
- Public agency records review;
- An environmental database search; and
- The preparation of this report presenting the results of the ESA.

Seven appendices are included with this report. Appendix A presents the assessor's parcel map and Flood Insurance Rate Map; Appendix B presents historical aerial photographs and topographic maps; Appendix C presents figures of the Subject Property included in previous environmental assessment; Appendix D presents photographs of the Subject Property at the time of the assessment; Appendix E presents a copy of the completed property owner questionnaire; Appendix F presents the environmental database report obtained from EDR for the Subject Property; and Appendix G presents the qualifications of the environmental assessor responsible for report preparation.

2.0 ENVIRONMENTAL SETTING

The following discussion summarizes the geologic, hydrogeologic, and other relevant data pertaining to the physical setting of the Subject Property.

2.1 SITE LOCATION AND DESCRIPTION

The Subject Property is located in Section 28, Township 5 South, Range 9 West of the U.S. Geological Survey (USGS) 7½ Minute topographic series, Tustin Quadrangle Map (2022). Approximate latitude and longitude are identified to be:

- Latitude (North) 33.710986°, (33°42'39.55"N)
- Longitude (West) -117.820686°, (117°49'14.47"W)

The Subject Property is a vacant lot consisting of approximately 9-acres and is identified by Orange County as assessor's parcel number (APN): 430-391-76. A copy of the assessor's parcel map is presented in **Appendix A**.

2.2 TOPOGRAPHY

Based on a review of the USGS 7.5-minute topographic quadrangle – Tustin, California (2021), the Subject Property is situated at an approximate elevation of 60-feet above mean sea level (amsl). The Subject Property consisted of a relatively level grass-covered vacant lot, that is situated approximately 2- to 3-feet higher than the surrounding area. The Subject Property slopes downward towards street level at the property perimeter. Typically, rainfall would infiltrate into the vegetated surface area, and surface drainage from excessive precipitation would flow to storm drain inlets located in adjacent streets.

2.3 GEOLOGY AND HYDROLOGY

The Subject Property is located within the Peninsular Ranges Geomorphic Province of California. The Peninsular Ranges stretch approximately 900 miles from the Los Angeles Basin to the southern tip of the Baja California Peninsula and are bounded to the east by the Colorado Desert. The Peninsular Ranges Province is divided into three major fault bounded tectonic blocks within the San Andreas Fault System, consisting of the Santa Anna, Perris, and San Jacinto Blocks. The ranges are seismically active and include parts of four major northwest-striking, right-lateral strike slip Pacific and North American plate boundary fault zones. These include the Elsinore fault zone to the east, the Newport-Inglewood-Rose Canyon offshore fault zone to the west, and the Coronado Bank fault, and San Diego Trough fault zone to the southwest (Norris and Webb, 1990).

According to the California Division of Mines and Geology, *Geologic Map of the Santa Ana Sheet, California, (1:250,000)*, 1965 (second printing 1973), the Subject Property is underlain by Quaternary-aged alluvium.

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Services (NRCS), Web Soil Survey of Orange County and Part of Riverside County (Websoil, 2025), the surface soil at the Subject Property consists of Chino silty clay loam, drained. This soil unit consists of alluvium derived from sedimentary sources. A typical profile consists of silty clay loam to 60-inches. Chino silty clay loam has slopes of 0 to 2 percent and is somewhat poorly drained.

The Subject Property is located within the Coastal Plain of Orange County groundwater basin. The Coastal Plain of Orange County groundwater basin underlies a coastal alluvial plain in northwestern Orange County. The basin is bound on the northwest and the north by the Los Angeles-Orange County line. The Whittier fault zone and consolidated rocks of the Puente Hills and Chino Hills bound the northeast extent of the basin. The basin is bound on the east by consolidated rocks of the Santa Ana Mountains and on the south by consolidated rocks of the Laguna Hills and San Joaquin Hills. The Pacific Ocean is the southwest extent of the basin.

Depth to groundwater in the vicinity of the Subject Property varies based on ongoing groundwater remediation activities being conducted at the adjacent former Marine Corps Air Station (MCAS) which operates several groundwater extractions wells. The majority of groundwater levels in non-pumping wells measured in 2020 ranged from 10 to 20 feet below ground surface (bgs). In general the groundwater flow direction in the area of the Subject Property is to the southwest.

2.4 FLOODPLAIN

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (*Community Panel Number: 06059C0279J, Effective Date: December 3, 2009),* the Subject Property is located in Zone X (areas determined to be outside the 0.2% annual chance flood plain). A copy of the FEMA Flood Insurance Rate Map is presented in **Appendix A**.

2.5 RADON

Radon is a colorless, odorless, tasteless, and radioactive gas that is produced as a natural decay product of uranium. Because of its radioactivity, studies have shown that at elevated concentrations there is a link between radon and lung cancer. Persons living in a building with elevated radon concentrations may have an increased risk of contracting lung cancer over a period of years.

The U.S. Environmental Protection Agency (U.S. EPA) recommends that action be taken to reduce radon levels in homes if levels are 4.0 pico curies per Liter (pCi/L) or higher. Radon levels below 4.0 pCi/L still pose a certain level of risk. Sections 307 and 309 of the Indoor Radon Abatement Act of 1988 (IRAA) directed the U.S. EPA to list and identify areas of the United States with the potential for elevated indoor radon levels. The U.S. EPA's Map of Radon Zones assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential:

- Zone 1 (red) counties have a predicted average indoor radon screening level greater than 4 pCi/L (highest potential);

- Zone 2 (orange) counties have a predicted average indoor radon screening level between 2 and 4 pCi/L (moderate potential);
- Zone 3 (yellow) counties have a predicted average indoor radon screening level less than 2 pCi/L (lowest potential).

According to the U.S. EPA map of California radon zones, Orange County is identified as a Zone 3 (yellow) county. Zone 3 counties have a predicted average indoor radon screening level less than 2 pCi/L (lowest potential). According to the California Indoor Radon Test Results (updated February 2016) for Zip Code 92782, 37 radon tests were conducted with 5 sites reported to have radon levels ≥ 4 pCi/L. This represents 13.5% of the radon tests in the Subject Property zip code. Therefore, the potential for radon hazard at the Subject Property is considered low and is dependent on site-design and building construction specifications.

2.6 OIL AND GAS WELLS

The California Geologic Energy Management Division (CalGEM) oversees the drilling, operation, maintenance, and plugging and abandonment of oil wells, natural gas wells, and geothermal wells. The CalGEM regulatory program emphasizes the wise development of oil, natural gas, and geothermal resources in the state of California through sound engineering practices that protect the environment, prevent pollution, and ensure public safety. Padre reviewed the available CalGEM online mapping system for the Subject Property at the California Department of Conservation webpage (https://www.conservation.ca.gov/calgem/). According to a review of the CalGEM online database and interactive map, there are no reported oil wells, natural gas wells, and/or geothermal wells located within a one-mile radius of the Subject Property.

2.7 NATURALLY OCCURRING ASBESTOS (NOA)

Asbestos is a naturally occurring silicate mineral of the amphibole group that has Asbestos is a naturally occurring silicate mineral of the amphibole group that has historically been utilized for a variety of purposes including fireproofing, due to its fibrous nature, which allowed it to be woven into cloth and formed into various types of construction material. Asbestos is a known carcinogen.

According to the California Department of Conservation, Division of Mines and Geology, Open-File Report 2000-19, dated August 2000, natural occurrences of asbestos are more likely to be encountered in, and immediately adjacent to, areas of ultramafic outcrops (igneous and metamorphic rocks with high iron and magnesium contents).

According to the California Division of Mines and Geology, *Geologic Map of the Santa Ana Sheet, California, (1:250,000)*, 1965 (second printing 1973), there are no exposures of potentially asbestos-bearing ultramafic or serpentinized rocks located approximately 10 miles of the Subject Property. Therefore, the potential for NOA to be present at the Subject Property from weathering and deposition of ultrabasic rock originating from outcrops is not considered a REC.

2.8 EARTHQUAKE FAULT ZONES

In 1972 the State of California passed the Alquist-Priolo Earthquake Fault Zoning Act (AP Act) to mitigate the hazard of surface faulting to structures utilized for human occupancy. The AP Act's primary purpose is to prevent the construction of buildings used for human occupancy on the surface trace of active faults. The AP Act defines three categories of fault activity; active (demonstrated movement within the last 11,000 years), potentially active (movement within the past 11,000 to 2,000,000 years), and inactive (no movement within the past 2,000,000 years).

Since 1972 the California Geological Survey (CGS) has issued a series of 1"=2,000' scale maps delineating Earthquake Fault Zones (EFZs). Structures proposed within mapped EFZs require geologic investigations to demonstrate that the structures will not be constructed across active faults. If an active fault is identified within the boundaries of the Subject Property, the proposed structures must be set back from the EFZ, generally a distance of 50 feet on either side of the identified fault location. The CGS mapping program is ongoing, and areas not currently identified as being within an EFZ may be included at some later time.

According to the EFZ maps issued by the CGS, the Subject Property is not located within the boundaries of an EFZ, and no active faults are known to cross the Subject Property (Jennings 2010).

3.0 HISTORICAL SITE CONDITIONS

Based on a review of readily available historical information, Padre has compiled the following history of the Subject Property. The earliest documentation reviewed for site usage was an aerial photograph dated 1938 and a topographic map dated 1896. Copies of historical aerial photographs and topographic maps are presented in **Appendix B**.

3.1 HISTORICAL AERIAL PHOTOGRAPHS

Padre reviewed readily available aerial photographs of the Subject Property, and the surrounding area obtained from EDR for the years 1938, 1946, 1952, 1963, 1972, 1977, 1989, 1994, 2002, 2005, 2009, 2012, 2016, and 2020. The Google Earth aerial imagery for the years June 2018, May 2019, and January 2020 were also reviewed. The information is summarized below:

1938 The 1938 photograph shows the Subject Property to be utilized for agriculture. There is a farm residence located adjacent to the southwest corner of the Subject Property. Surrounding areas consist of agriculture.

1946 The 1946 photograph shows the Subject Property to be located within the Tustin Marine Corp Air Station (MCAS). The Subject Property appears to be utilized for agriculture with a road running along the northwest boundary and southwest corner of the Subject Property. Surrounding features include an airplane hangar to the southwest, runways and taxiways to the south and west, and support facilities to the northwest. Three airplane turnarounds are located to the northeast.

1952 The 1952 photograph shows the Subject Property and surrounding areas similar to the 1946 photograph.

1963 The 1963 photograph shows the Subject Property and surrounding areas similar to the 1952.

1972 The 1972 photograph shows the Subject Property and surrounding areas similar to the 1963 photograph. There is residential development further out to the north.

1977 The 1977 photograph shows the Subject Property and surrounding areas similar to the 1972 photograph. There is increased residential development further out to the north.

1989 The 1989 photograph is infrared and shows the majority of the Subject Property being used for agriculture with roads located along the northwest boundary and cutting across the southwest corner of the Subject Property. There is a new housing development to the north on the south side of Valencia Avenue.

1994 The 1994 photograph shows the Subject Property and surrounding areas similar to the 1989 photograph.

2002 The 2002 photograph shows the Subject Property and surrounding areas similar to the 1994 photograph.

2005 The 2005 photograph shows the Subject Property as undeveloped land (not agriculture). Two of the aircraft turnarounds located adjacent to the north along with the housing development located to the north on the south side of Valencia Avenue have been removed.

2009 The 2009 photograph shows the Subject Property as undeveloped. There are streets and a new housing development located immediately north of the Subject Property. It appears that some MCAS facilities to the south have been removed i.e.. runway, and properties to the east are undeveloped.

2012 The 2012 photograph shows the Subject Property similar to the 2009 photograph. Properties to the east are being developed.

2016 The 2016 photograph shows the Subject Property similar to the 2012 photograph. Valencia Avenue has been extended southeast.

2018 The June 2018 Google Earth aerial imagery shows the Subject Property as undeveloped land with sparse vegetation. Legacy Road, the southeast boundary of the Subject Property, appears to be under construction.

2019 The May 2019 Google Earth aerial imagery shows the Subject Property being used to stockpile soil along the northwest boundary. The soil appears to be generated

from the construction of the school (Legacy Magnet Academy) located on the southeast side of Legacy Road.

2020 The January 2020 Google Earth aerial imagery shows the Subject Property similar to the 2019 aerial image, except for additional soil stockpiles and evidence of surface grading. The Legacy Magnet Academy continues to be constructed.

2020 The 2020 photograph shows the Subject Property similar to the 2020 Google Earth aerial imagery with the exception of the more soil stockpiles and the Subject Property is partially vegetated. Areas to the northeast are developed with a shopping center. Legacy Road is present to the southeast, beyond is the Legacy Magnet Academy (under construction).

3.2 UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAPS

Padre obtained historical topographic maps published by the USGS for the vicinity of the Subject Property. Historical topographic maps dated 1935, 1942, 1948, 1950, 1965, 1972, 1981, 2012, 2015, 2018, and 2022 were reviewed. A summary of the information presented on each map is presented below.

1935 The 1935 map shows the Subject Property as undeveloped land. There is an unpaved road located to the northwest. Surrounding areas are primarily undeveloped, and there is an Atchison Topeka and Santa Fe railroad line located further out to the north. Topography is slopping southerly.

1942 The 1942 map shows the Subject Property similar to the 1935 map. There are three residences located to the southwest. Surrounding properties are generally similar to the 1935 map.

1948 The 1948 map shows the Subject Property to be located within the former MCAS which is identified as “Naval Reservation”. Facilities for the MCAS are located north, west, and south of the Subject Property.

1950 The 1950 map is similar to the 1948 map.

1965 The 1965 map shows the Subject Property similar to the 1950 map. There is agriculture (orchards) and increased development further out to the north. The road west and adjacent to the Subject Property is now identified as a major thoroughfare. The Barstow Freeway has been constructed further west of the Subject Property.

1972 The 1972 map shows the Subject Property similar to the 1965 map. There is less agriculture and more residential further out to the north.

1981 The 1981 map is similar to the 1972 map. Further out surrounding areas show increased development.

2012 The 2012 map only shows roads and geographical features. The MCAS is not identified and roads including Valencia Avenue are present to the north.

2015 The 2015 map is similar to the 2012 map.

2018 The 2018 map is similar to the 2015 map. Valenica Avenue has been extended southeast.

2022 The 2021 map shows is similar to the 2018 map. Legacy Road is present southeast and adjacent to the Subject Property; however it is identified as Kensington Park Place.

3.3 CITY DIRECTORIES

Padre obtained an abstract of historical city directories provided by EDR for the physical addresses along Legacy Road and Valencia Road. The years listed included 1962, 1973, 1976, 1982, 1987, 1992, 1995, 2000, 2005, 2010, 2014, 2017, and 2020. The Subject Property does not have a physical address. A review of available city directories did not identify RECs for the Subject Property.

3.4 ENVIRONMENTAL LIENS

Padre reviewed the EDR Environmental Lien and activity use limitations (AULs) search report of available current land title records for environmental cleanup liens and other AULs such as engineering controls and institutional controls. No environmental liens or AULs were identified for the Subject Property. According to EDR, the current legal owner of APN: 430-391-76 is Tustin Unified School District.

3.5 EXISTING ENVIRONMENTAL REPORTS

The following environmental reports related to the Subject Property were reviewed:

- *"Final" Preliminary Endangerment Report, Tustin Unified School District, MCAS-Tustin, Parcel 17, Proposed High School Site, Tustin, California* (AEC, Inc., January 2007);
- *"Final" Preliminary Endangerment Report, Tustin Unified School District, MCAS-Tustin, Parcel 17, Proposed High School Site, Tustin, California* (AEC, Inc., December 2015);
- *Supplemental Site Investigation Workplan, Tustin Unified School District, MCAS-Tustin, Portions of Parcels 16 & 17, Southwest Intersection of Tustin Ranch Road and Valencia Avenue, Tustin, California* (AEC, Inc. March 2016);
- *Final Work Plan Groundwater Flow and Transport Modeling, Former Marine Corps Air Station (MCAS) El Toro, Irvine, California and Former MCAS Tustin, Tustin, California* (CH2M Hill, Inc. June 2023).

The following provides a summary of the former Marine Corps Air Station (MCAS) facility and operations along with environmental investigations that were performed at or adjacent to the Subject Property:

Prior to the construction of the former MCAS the Subject Property and surrounding areas were used for agriculture production (row crops). The former MCAS was originally designed to provide operations and maintenance to support helium-filled airships conducting anti-submarine patrols off the coast of Southern California. The initial phase of development occurred between 1942 and 1943 and involved the construction of two massive airship hangars. By 1944 the need for airship patrols had greatly waned and most of the support facilities were converted to warehouses and storage buildings. The airships used the base to a lesser capacity until 1949 when the facility was officially decommissioned. In 1951 the base was re-commissioned as a Marine Corp Air Facility in preparation for the Korean War and converted to a helicopter base.

In 1991 the former MCAS began the process of closing the military facility base which included the formation of a Base Realignment and Closure (BRAC) Cleanup Team to manage and coordinate mitigation and closure activities. Hazardous materials used at the former MCAS identified by the BRAC Team consisted of oil, solvent, jet fuel, hydraulic fluid, paint, antifreeze, thinner, asbestos, PCBs, lead, and hydrocarbon-related sludge. The BRAC Team identified numerous drum storage areas, fire-fighting test pits, underground storage tanks, aboveground storage tanks, maintenance areas of solvent and degreaser use, and waste oil generation.

The Subject Property is identified to be located within Parcel 17 of the former MCAS facility. Parcel 17 is located in the north-central portion of the former MCAS which had no development other than blimp and helicopter pads, and a portion of a runway. The parcel was used primarily for agriculture production (row crops) and appears to have been fallow since circa 2005. Subsurface investigations at the former MCAS identified a large solvent groundwater plume (OU-1B North) with a portion of the plume identified to be beneath Parcel 17 and subsequently the Subject Property.

2006 Preliminary Environmental Assessment (PEA)

In August 2006 Advanced Environmental Concepts, Inc. (AEC) conducted a PEA for a proposed high school (Envirostor No. 70000180) that was to be constructed on Parcel 17. The PEA was performed on behalf of the Tustin Unified School District (TUSD) and under the direction of the California Department of Toxic Substances Control (DTSC). The area assessed consisted of 38 acres and included the Subject Property. The PEA included the collection of soil samples for analysis of organochlorine pesticides (OCPs), total petroleum hydrocarbons (TPH), metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and poly aromatic hydrocarbons (PAHs); soil gas samples for VOCs; and groundwater samples for TPH, metals, VOCs, and SVOCs. Based on the result of the PEA, the pesticide dieldrin was identified in one surface soil sample at a concentration exceeding its' regulatory screening level. This elevated concentration of dieldrin was not located on the Subject Property. A small area of soil was excavated, transported offsite for proper disposal, and confirmation samples indicated that no additional excavation was required. In a letter dated June 21, 2007 DTSC issued a "No Further

Action" designation for the proposed school site. Construction of the proposed high school did not move forward.

2015 PEA

In August 2015 AEC, under the oversight of DTSC, conducted a PEA for a reconfigured high school site (Envirostor No. 70000180) consisting of 40 acres located on Parcel 17, however excluded the Subject Property. The site was re-sampled to primarily evaluate previously unsampled areas of the new configuration. The PEA included the collection of soil samples for analysis of OCPs, TPH, metals, VOCs, and PAHs; soil gas samples for VOCs; and groundwater samples for TPH and VOCs. Based on the results of the PEA, the proposed high school site was not significantly impacted from historic land use or the environmental releases of the former MCAS. In a letter dated November 12, 2015 DTSC issued a "No Further Action" designation for the proposed school site.

2016 Supplemental Site Investigation (SSI) Workplan

In 2016 TUSD intended to add 12-acres of land to the proposed 40-acres assessed in 2015. The 12-acres of land was located west and adjacent to the 40-acres and included the Subject Property. An SSI work plan dated March 2016 detailing additional soil, soil gas, and groundwater sampling was submitted and approved by DTSC. The SSI workplan was never implemented and the high school was constructed on the 40-acres of land situated east of the Subject Property. Figures from the various AEC environmental assessments showing site configurations and sample locations are presented in the **Appendix C**.

July 2018 - Additional Groundwater Contaminants

In July 2018 the OU-1B North groundwater plume situated beneath the Subject Property was discovered to contain perfluorooctanoic (PFOA) and perfluorooctane sulfonate (PFOS) at concentrations exceeding regulatory screening levels. PFOS and PFOA are part of a larger group of chemicals identified as per- and polyfluoroalkyl substances (PFAS). Through groundwater monitoring and additional groundwater investigations several PFAS groundwater plumes were identified at the former MCAS. The groundwater plume is considered a REC to the Subject Property. A figure showing the estimated lateral extent PFOA/PFOS at concentrations exceeding regulatory screening levels in relation to the Subject Property is presented in **Appendix C**.

4.0 CURRENT SITE CONDITIONS

The current site conditions were assessed to determine current activities and hazardous substances handling and storage at the Subject Property.

4.1 SITE RECONNAISSANCE

On March 24, 2025, Mr. Jerome Summerlin with Padre conducted a site reconnaissance of the Subject Property. At the time of the inspection conditions were sunny and mild. Site

reconnaissance consisted of walking the Subject Property as well as observing the adjacent properties.

The Subject Property consisted of a relatively level grass-covered vacant lot, surrounded by chain-link fencing. The Subject Property is relatively level and situated approximately 2- to 3-feet higher than the surrounding area. The Subject Property slopes downward towards street level at the property perimeter. There were approximately 30 to 40 grass covered soil piles (undocumented fill material), observed at the south-central portion of the Subject Property.

No petroleum and/or chemical containers were observed, no petroleum and/or chemical stained soils or concrete/asphalt surfaces were observed, and no aboveground or indications of underground petroleum storage tanks were observed at the Subject Property. In addition, no indications of stressed vegetation were observed. Photographs taken during the course of the site reconnaissance are presented in **Appendix D**.

4.2 UTILITIES

Electricity is provided to the Subject Property by Southern California Edison; natural gas is provided by Southern California Gas; water is provided by the City of Tustin, and sewer is provided by the Orange County Sanitation District.

4.3 ASBESTOS-CONTAINING MATERIALS

Padre did not conduct a comprehensive Asbestos-Containing Materials (ACM) survey as part of this Phase I ESA. Properties with residential and/or commercial structures constructed before 1976 may potentially contain ACM. The mitigation and management of ACM is currently regulated by several federal, state, and local agencies.

There currently are no building structures located on the Subject Property, and Padre did not identify the occurrence of former building structures. Therefore, the potential for residual OCPs in soil from direct application of termiticides is not considered a REC.

4.4 LEAD-BASED PAINT

Properties containing structures with paint or surface coatings, with the exception of residential structures constructed on or after January 1, 1979, or schools constructed prior to January 1, 1993, may have surfaces coated with lead-based paint. Weathering, scraping, chipping, and abrasion may cause lead to be released to and accumulate in soil around these structures. Therefore, the California Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup Division recommends the collection of soil samples to determine if the potential presence of residual lead in soil contamination poses a threat to human health and the environment.

There currently are no building structures located on the Subject Property, and Padre did not identify the occurrence of former building structures. Therefore, the potential for lead-based paint in soil at the Subject Property is not considered a REC.

4.5 POLYCHLORINATED BIPHENYLS

Padre did not conduct a comprehensive polychlorinated biphenyls (PCBs) survey as part of this Phase I ESA. The federal Toxic Substances Control Act (TSCA) generally prohibited the domestic manufacturing of polychlorinated biphenyls (PCBs) after 1979; however, hydraulic fluids or dielectric insulating fluids typically found in electrical transformers, hydraulic equipment, capacitors, and similar equipment may contain PCBs if such materials have been present prior to the late 1970s. EPA regulations require that encapsulated surfaces be marked with the yellow "Caution Contains PCBs" sticker typically used for labeling PCB Transformers (less than 500 ppm).

No pole-mounted or pad-mounted electrical transformers were observed on or adjacent to the Subject Property. Therefore, the potential presence of PCBs in soil at the Subject Property is not considered a REC.

4.6 TERMITICIDES

Organochlorine pesticides (OCPs) were commonly used as insecticides for termite control around structures and typically applied surficially to soil surrounding foundations and injected into the soil in an effort to isolate wood structures from termite nests. Chlordane was used in the United States from 1948 until 1988, when it was banned by the United States Environmental Protection Agency (U.S. EPA). Because of evidence of human exposure and accumulation in body fat, as well as persistence in the environment and effects on wildlife, the U.S. EPA prohibited the use of chlordane in 1988.

DTSC conducted an investigation of three proposed school sites in southern California with residential structures to evaluate the presence and prevalence of chlordane and other OCPs as a result of termiticide application. Additionally, DTSC investigated OCPs from termiticide application at residential properties proposed for school sites in various counties throughout California. The results of the study indicated that it is likely that significant concentrations of OCP residues may exist around structures with wood components built prior to January 1, 1989 and should be evaluated at school sites.

There currently are no building structures located on the Subject Property, and Padre did not identify the occurrence of former building structures. Therefore, the potential for residual OCPs in soil from direct application of termiticides is not considered a REC.

4.7 PROPERTY OWNER QUESTIONNAIRE

A property owner environmental questionnaire was completed for the Subject Property by Mr. Tom Rizzuti, Director of Facilities and Planning with TUSD. According to Rizzuti, TUSD is the current property owner. The Subject Property was acquired from the City of Tustin in October 2017. The City of Tustin had owned the property since May 2002.

The current property is identified as vacant. In terms of chemical use and/or environmental incidents at the Subject Property, Mr. Rizzuti's answers refer to the environmental reports which

are discussed in Section 3.6 of this report. According to Mr. Rizzuti, the soil piles located at the Subject Property are from other District properties. A copy of the completed questionnaire is presented in **Appendix E**.

4.8 SURROUNDING PROPERTIES

The Subject Property is bordered to the north and northeast by Valencia Avenue, beyond which is a residential development; to the south by Legacy Road, beyond which is the Legacy Magnet Academy; to the southeast beyond Valencia Avenue by a commercial shopping center; and to the west and northwest by land areas of the former MCAS.

4.9 VAPOR ENCROACHMENT CONDITION

Subsurface investigations at the former MCAS identified a large solvent groundwater plume (OU-1B North) with a portion of the plume identified to be beneath the Subject Property. Based on the relatively shallow depth to groundwater (10- to 20-feet), a vapor encroachment condition exists at the Subject Property and is considered a REC.

5.0 ENVIRONMENTAL RECORDS REVIEW

Padre contacted the regulatory agencies in the region to determine if soil and groundwater contamination is known or suspected at or near the Subject Property. Regulatory agency databases were obtained from EDR for the Subject Property and properties within one mile.

5.1 PUBLIC RECORDS REVIEW AND AGENCY CONTACTS

Padre contacted the following local agencies for information concerning environmental complaints, accidents, or spills on or in the vicinity of the Subject Property and for safety concerns related to school sites in California.

5.1.1 Orange County Environmental Health Division

Padre reviewed the Orange County Environmental Health Division's (EHD) online portal for records of hazardous underground storage tanks (USTs); aboveground storage tanks (ASTs); hazardous materials business plans (HMBPs); and hazardous waste generation, etc. identified for the Subject Property. No records were found.

5.1.2 City of Tustin Planning Division

According to the City of Tustin Planning Division, the Subject Property is located within the City of Tustin, Tustin Legacy Specific Plan, Neighborhood D, and is adjacent to the TUSD Legacy Magnet Academy within the former Marine Corps Air Station (MCAS) Tustin Base. According to the Tustin Legacy Specific Plan, Neighborhood D is identified as mixed-use development and urban setting.

5.2 ENVIRONMENTAL DATABASE INFORMATION

Padre obtained environmental agency database information from EDR. The EDR report is included as **Appendix F**. The databases were reviewed to identify registrations and documented environmental incidents regarding the site and nearby properties within a one-mile radius of the Subject Property. Padre also attempted to locate unplottable sites that EDR did not locate because of incomplete or incorrect address information. The following sections summarize our findings.

5.2.1 National Priorities List - Federal Superfund

The National Priorities List is a U.S. Environmental Protection Agency (U.S. EPA) listing of private, state, and federally owned sites which have been included on the federal Superfund list for remediation.

- The Subject Property nor properties identified within a 1-mile radius of the Subject Property were identified on the National Priorities List.

5.2.2 U.S. Superfund Enterprise Management System (SEMS)

The U.S. EPA's SEMS Listings (formerly known as CERCLIS) are a compilation of sites that have been brought to the attention of the U.S. EPA, through various means, as being possible sites of hazardous waste activity. The SEMS listings are an information database and not necessarily an action list.

- The Subject Property is not identified on the SEMS List.
- One property located within a 1-mile radius of the Subject Property is identified on the SEMS List.

The former MCAS facility groundwater contamination plume (OU-1B North) identified beneath a portion of the Subject Property is considered a REC. This facility is discussed in detail in Section 3.5 of this report.

5.2.3 RCRA-TSDF

The U.S. EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA-Transportation, Storage, and Disposal Facilities (TSDF) database is a compilation by the U.S. EPA of reporting facilities that transport, treat, store, or dispose of hazardous waste.

- Neither the Subject Property nor properties located within a ½-mile radius of the Subject Property are identified on the RCRA-TSDF List.

5.2.4 RCRA - LQG's

The U.S. EPA's RCRA Program identifies and tracks large quantity generators (LQG's). LQG's generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg acutely hazardous waste per month.

- The Subject Property is not identified on the RCRA-LQG's List.

- One property located within a ¼-mile radius of the Subject Property is identified on the RCRA-LQG's List.

Meriweather is located approximately 1,160 feet northwest of the Subject Property at 15229 Columbus Square Drive. In 2009 approximately 11 tons of corrosive waste was disposed of offsite under manifest. No violations are reported at his facility and therefore it is not considered a REC.

5.2.5 RCRA - SQG's

The U.S. EPA's RCRA Program identifies and tracks small quantity generators (SQG's). SQG's generate between 100 kg and 1,000 kg of hazardous waste per month.

- Neither the Subject Property nor properties located within a ¼-mile radius of the Subject Property are identified on the RCRA-SQG's List.

5.2.6 Emergency Response Notification System

The Emergency Response Notification System (ERNS) contains records on releases of oil and hazardous substances reported to the U.S. EPA and National Response Center of the U.S. Coast Guard.

- The Subject Property is not identified on the ERNS List.

5.2.7 RCRA-CORRACTS Facilities

The U.S. EPA's Resource Conservation and Recovery Act (RCRA) Corrective Action Sites Listing contains information pertaining to hazardous waste treatment, storage, and disposal facilities (RCRA TSD) which have conducted, or are currently conducting, a corrective action(s) as regulated under RCRA.

- The Subject Property is not identified on the RCRA-CORRACTS List.

- One property located within a 1-mile radius of the Subject Property is identified on the RCRA-CORRACTS List.

Foremost McKesson Inc./McKesson Chem Co. is located approximately 4,450 feet northwest of the Subject Property at 1302 Industrial Drive. This facility operated under a permit from DTSC to temporarily store hazardous waste drums prior to being transported offsite. This facility was properly closed in the late 1980s and therefore is not considered a REC.

5.2.8 CA SWF/LF

State and Tribal; landfill and/or solid waste disposal site listings. The Solid Waste Facility/Landfill facility (SWF/LF), solid waste information system (SWIS) maintains records of active, closed and inactive landfills.

- Neither the Subject Property nor properties located within a ½-mile radius of the Subject Property are identified on the CA SWF/LF List.

5.2.9 UST

USTs are regulated under Subtitle I of RCRA and must be registered with the state department responsible for administering the UST program. In California, the State Water Resources Control Board has compiled a listing of UST sites. Active UST facilities lists are gathered from local regulatory agencies.

- The Subject Property is not identified on the UST List.
- Four properties located within a ¼-mile radius of the Subject Property are listed on the UST List.

The four properties consist of separate USTs areas previously located on the former MCAS facility. Releases from numerous USTs, as well as other storage tanks, has resulted in ongoing groundwater investigations and remediation. The former MCAS facility groundwater contamination plume (OU-1B North) identified beneath a portion of the Subject Property is considered a REC. This facility is discussed in detail in Section 3.5 of this report.

5.2.10 Historical UST

The Hazardous Substance Storage Container Database is a historical listing of UST sites and is maintained by the California State Water Resources Control Board.

- Neither the Subject Property nor properties located within a ¼-mile radius of the Subject Property are identified on the Historical UST List.

5.2.11 CA FID UST

The California Facility Inventory Database (CA FID) UST contains a historical listing of active and inactive underground storage tank locations from the State Water Resources Control Board.

- Neither the Subject Property nor properties located within a ¼-mile radius of the Subject Property are identified on the CA FID UST List.

5.2.12 Leaking Underground Storage Tank

The California Regional Water Quality Control Board is the agency with jurisdiction over leaking underground storage tanks (LUSTs) in the region of the site.

- The Subject Property is not identified on the LUST list.
- One property located within a ½-mile radius of the Subject Property is identified on the LUST list.

Chevron #9-0550 is identified to be located at 2051 Edinger Avenue approximately 1,500 feet north of the Subject Site. This property is actually located at 2051 East Edinger Avenue over the one-mile from the Subject Property and is not considered a REC.

5.2.13 AST

The Aboveground Storage Tank (AST) lists facilities with registered aboveground petroleum storage tanks, compiled by the State Water Resources Control Board (SWRCB).

- Neither the Subject Property nor properties located within a ¼-mile radius of the Subject Property are identified on the AST List.

5.2.14 US Eng Controls

The US Engineering Controls list consists of sites with engineering controls in place that include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

- Neither the Subject Property nor properties located within a ½-mile radius of the Subject Property are identified on the US ENG Controls List.

5.2.15 US Inst Controls

The US Institutional Controls list consists of sites with institutional controls in place that include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining onsite. Deed restrictions are generally required as part of the institutional controls.

- Neither the Subject Property nor properties located within a ½-mile radius of the Subject Property are identified on the US INST Controls List.

5.2.16 Historic Cal-Sites

The State of California Historic Cal-Sites database contains potential or confirmed hazardous substance release properties. In 1996, the California Environmental Protection Agency reevaluated and significantly reduced the number of sites in the Cal-sites database.

- The Subject Property is not identified on the Historic Cal-Sites List.

- One property located within a 1-mile radius of the Subject Property is identified on the Historic Cal-Sites List.

The Historic Cal Sites listing is related to the many environmental investigations and remediations related to the former MCAS facility. Releases from numerous USTs, as well as other storage tanks, has resulted in ongoing groundwater investigations and remediation. The former MCAS facility groundwater contamination plume (OU-1B North) identified beneath a

portion of the Subject Property is considered a REC. This facility is discussed in detail in Section 3.5 of this report.

5.2.17 WMUD/SWAT

The Waste Management Unit Database System (WMUDS) is used by the State Water Resources Control Boards for program tracking and inventory of waste management units. The Solid Waste Assessment Test Program (SWAT) is a database maintained by the California Water Resources Control Board for information on the ground water monitoring of sanitary landfills.

- Neither the Subject Property nor properties located within a ½-mile radius are identified on the WMUDS/SWAT List.

5.2.18 California Hazardous Materials Incident Reporting System

The California Hazardous Materials Incident Reporting System (CHMIRS) is maintained by the California Office of Emergency Services (OES) and contains information on reported hazardous materials accidental releases or spills.

- The Subject Property is not identified on the CHMIRS List.

5.2.19 CERCLIS-NFRAP

The Comprehensive Environmental Response, Compensation, and Liability Information System - No Further Remedial Action Planned (CERCLIS-NFRAP) database is a list of sites that were removed CERCLIS in 1995. These sites may have been removed due to the following: after an initial investigation, no contamination was found; contamination was removed quickly without the need to place the site on the NPL; or the contamination was not serious enough to require Federal Superfund action or NPL consideration. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

- Neither the Subject Property nor properties located within a ½-mile radius of the Subject Property are identified on the CERCLIS-NFRAP List.

5.2.20 Voluntary Cleanup Program

The Voluntary Cleanup Program database is maintained by the Department of Toxic Substances Control (DTSC). The VCP database contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee the investigation and/or cleanup activities and have agreed to provide coverage for DTSC's Costs.

- Neither the Subject Property nor properties located within a ½ -mile radius of the Subject Property are identified on the VCP List.

5.2.21 Hazardous Waste Information System

The Hazardous Waste Information System (HAZNET) database is developed from copies of hazardous waste manifests required for proper disposal of wastes and received each year by the DTSC.

- The Subject Property is not identified on the HAZNET List.
- One property located within a 1-mile radius is identified on the HAZNET List.

CVS Pharmacy #10806 is located approximately 640 feet east of the Subject Property at 15180 Kensington Park Drive. This facility generates hazardous waste under a permit from the Orange County Environmental Health Division and is inspected regularly for compliance. This facility is not considered a REC.

5.2.22 California SLIC Program

The California SLIC (Spills, Leaks, Investigations, and Cleanup) is designed to protect and restore water quality from spills, leaks and similar discharges. The database is maintained by the State Water Resources Control Board (SWRCB).

- Neither the Subject Property nor properties located within a ½-mile radius of the Subject Property are identified on the SLIC List.

5.2.23 CUPA

California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities for Orange County.

- Neither the Subject Property nor properties located within a ¼-mile radius of the Subject Property are identified on the CUPA List.

5.2.24 ENVIROSTOR

The DTSC Site Mitigation and Brownfields Reuse Program (SMBRPs) maintain a database that identifies sites that have known contamination or sites for which there may be reasons to investigate further.

- The Subject Property is identified on the Envirostor List. This is related to the 2005 PEA and 2015 PEA that were conducted under the oversight of DTSC and are discussed in Section 3.6.
- Fifteen properties located within a 1-mile radius of the Subject Property are identified on the Envirostor List.

The majority of the Envirostor listings are related to the many environmental investigations and remediations conducted at the former MCAS facility. Releases from numerous USTs, as well as other storage tanks, has resulted in ongoing groundwater investigations and remediation. The former MCAS facility groundwater contamination plume (OU-1B North) identified beneath a portion of the Subject Property is considered a REC. This facility is discussed in detail in Section 3.5 of this report.

5.2.25 Subject Property Findings

The Subject Property is located southwest of the intersection of Valencia Avenue and Legacy Road in Tustin and consists of a vacant fenced lot. The Subject Property is identified in DTSC's Envirostor database. A PEA was conducted in 2006 for a proposed school site which included the Subject Property. The PEA included an investigation of soil, soil gas, and groundwater related to historic land use (agriculture) and the environmental releases documented at the former MCAS. Based on the results of the PEA, DTSC issued a "No Further Action" designation for the proposed school site, however the construction of the proposed high school did not move forward.

A PEA was conducted in 2015 for a reconfigured high school site, which initially did not include the Subject Property. Based on the results of the PEA, DTSC issued a "No Further Action" designation for the proposed school site. The school district added the Subject Property in 2016 and an SSI work plan dated March 2016 detailing additional soil, soil gas, and groundwater sampling was submitted and approved by DTSC. The SSI workplan was never implemented and the high school was constructed on the 40-acres of land situated southeast of the Subject Property.

Subsurface investigations at the former MCAS identified a large solvent groundwater plume (OU-1B North) located northwest of the Subject Property, which is indicated to extend beneath the western portion of the Subject Property. In addition, the OU-1B North groundwater plume was discovered to contain per- and polyfluoroalkyl substances (PFAS). Through groundwater monitoring and additional groundwater investigations several PFAS groundwater plumes were identified at the former MCAS. The OU-1B North groundwater plume is considered a REC to the Subject Property.

6.0 SUMMARY AND CONCLUSIONS

Based on the results of the scope of services performed for this Phase I ESA, Padre has prepared the following summary and conclusions regarding the Subject Property.

6.1 CURRENT CONDITIONS AND HISTORIC SITE BACKGROUND

The Subject Property consists of approximately 9-acres of land identified by Orange County as APN: 430-391-76. The current legal owner of the Subject Property is Tustin Unified School District. The Subject Property was acquired from the City of Tustin in October 2017.

Padre reviewed the EDR Environmental Lien and activity use limitations (AULs) search report of available current land title records for environmental cleanup liens and other AULs such as engineering controls and institutional controls. No environmental liens or AULs were identified for the Subject Property.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (*Community Panel Number: 06059C0279J, Effective Date: December 3, 2009),* the Subject Property is located in Zone X (areas determined to be outside the 0.2% annual chance flood plain).

According to the EFZ maps issued by the CGS, the Subject Property is not located within the boundaries of an EFZ, and no active faults are known to cross the Subject Property (Jennings 2010).

Based on a review of historical documentation including aerial photographs, topographic maps, and various environmental assessment reports, the Subject Property and surrounding area was used for agriculture production (row crops) until the early 1940s, when the former MCAS was constructed. The Subject Property was situated in an area of the former MCAS which had no development other than blimp and helicopter pads, and a portion of a runway. The Subject Property continued to be used for agriculture until circa 2005 when it appeared to go fallow.

Padre's site reconnaissance on March 24, 2025, observed the Subject Property to be a vacant lot surrounded by chain-link fencing. The majority of the Subject Property was observed to be relatively level, with a grade surface approximately 2- to 3-feet higher than the surrounding area. Based on a review of aerial photographs (2018, 2019, 2020), it appears that the Subject Property was utilized as a stockpile area for soil (import fill material) generated during the construction of Legacy Magnet Academy school site, located adjacent to the south southeast. Based on DTSC's approval of the 2006 and 2015 PEAs for the Legacy Magnet Academy school site, the import fill material is not considered a REC. The Subject Property has remained undeveloped since and no structures are known to have existed at the Subject Property.

During the Padre site reconnaissance, approximately 30 to 40 grass covered soil piles (undocumented fill material), were observed near the south-central portion of the Subject Property, and according to TUSD these soil piles are from projects at other school district properties. These soil piles are recognized as undocumented fill material, and therefore are considered a REC.

No petroleum and/or chemical containers were observed, no petroleum and/or chemical stained soils or concrete/asphalt surfaces were observed, and no aboveground or indications of underground petroleum storage tanks were observed at the Subject Property. In addition, no indications of stressed vegetation were observed.

The Subject Property is bordered to the north by Valencia Avenue, beyond which is a residential development; to the east by Legacy Road and Valencia Avenue, beyond which is the Legacy Magnet Academy and a commercial shopping center; to the south by Legacy Road,

beyond which is the Legacy Magnet Academy and vacant areas of the former MCAS; and to the west by the former MCAS.

A review of the EDR Radius Map Report database records of facilities located within a one-mile radius of the Subject Property identified that the former MCAS facility has a contaminated groundwater plume (OU-1B North), containing solvents and PFAS, which appears to extend beneath a portion of the Subject Property and is considered a REC.

6.2 DATA GAPS

All the areas of the Subject Property were accessible to Padre. The information obtained and available to Padre during the preparation of this Phase I ESA is considered acceptable and complete. In general conformance with the scope and limitations of the ASTM E1527-21 Standard, Padre did not identify any significant data gaps in completing this Phase I ESA.

6.3 RECOGNIZED ENVIRONMENTAL CONDITIONS

The following RECs were identified based on the findings of the Phase I:

- The former MCAS facility has a contaminated groundwater plume (OU-1B North), containing solvents and PFAS, which is indicated to extend beneath the western portion of the Subject Property; and
- Approximately 30 to 40 soil piles reportedly generated from other school district properties are located near the south-central portion of the Subject Property. These soil piles are considered undocumented fill material and need to be characterized.

6.4 RECOMMENDATIONS

Based on the identified RECs, Padre recommends the completion of a Phase II ESA at the Subject Property. In general, the Phase II ESA will include the following:

- The collection of samples (soil, soil gas and groundwater) related to the former MCAS contaminated groundwater plume (OU-1B North). The purpose of the sampling program would be to identify if the subject groundwater plume adversely impacted the Subject Property; and
- The collection of soil samples from 30 to 40 soil piles (undocumented fill material) located near the south-central portion of the Subject Property. The purpose of the sampling program would be to characterize the soil for potential contaminants.

6.5 CERTIFICATION

We declare that, to the best of our professional knowledge and understanding, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR §312. Additionally, we have the specific qualifications based on education, training, and experience to assess the nature, setting, and of the subject property. We have performed all appropriate inquiries in

conformance with the standards and practices set forth in 40 CFR Part §312. Qualifications of the environmental assessors responsible for the preparation of this report are presented in **Appendix G**.

7.0 LIMITATIONS

This report has been prepared for the sole benefit of PlaceWorks and Tustin Unified School District. No other person(s) may rely on the findings of this report without the expressed written consent of PlaceWorks, Tustin Unified School District and Padre Associates, Inc. In performing our professional services, we have attempted to apply present engineering and scientific judgment and use a level of effort consistent with the standard of practice measured on the date of work and in locale of the Subject Property for similar type studies. Padre Associates, Inc. makes no warranty, express or implied.

The analyses and interpretations presented in this report have been developed based on the results from the review of existing information pertaining to the Subject Property.

The ASTM Standard Practice E 1527-13 and E 1527-21 recognize inherent limitations for Phase I ESAs, including, but not limited to:

- *Uncertainty Not Eliminated.* A Phase I ESA cannot completely eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with any property.
- *Not Exhaustive.* A Phase I ESA is not an exhaustive investigation of the Subject Property and environmental conditions on such Subject Property.
- *Past Uses of the Property.* Phase I requirements only require review of standard historical sources at five-year intervals if readily available. Therefore, past uses of the Property at less than five-year intervals may not be discovered.

Users of this report may refer to ASTM Standard Practice E 1527-13 and E 1527-21 for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other Property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

Padre makes no representation of or warranty that the past or current operations at the Subject Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

Regardless of the findings stated in this report, Padre is not responsible for consequences or conditions arising from facts not fully disclosed to Padre during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Padre's observations or other credible referenced sources reviewed during the assessment. Padre shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Padre used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the Subject Property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by objects including, but not limited to, paving, construction activities, stored materials, and landscaping.

-- o –

8.0 REFERENCES

Advanced Environmental Concepts, Inc., *Final" Preliminary Endangerment Report, Tustin Unified School District, MCAS-Tustin, Parcel 17, Proposed High School Site, Tustin, California*, January 2007.

_____, *"Final" Preliminary Endangerment Report, Tustin Unified School District, MCAS-Tustin, Parcel 17, Proposed High School Site, Tustin, California*, December 2015.

_____, *Supplemental Site Investigation Workplan, Tustin Unified School District, MCAS-Tustin, Portions of Parcels 16 & 17, Southwest Intersection of Tustin Ranch Road and Valencia Avenue, Tustin, California*, March 2016.

California Department of Toxic Substances Control, Envirostor Database.

California Department of Water Resources (http://www.water.ca.gov/waterdatalibrary/)

California Geologic Energy Management Division (CalGEM).

California Geological Survey, *A General Location Guide For Ultramafic Rocks in California - Areas More Likely to Contain Naturally Occurring Asbestos*. Open File Report 2000-19, 2000.

California Geological Survey, *Geologic Map of California - Santa Ana Sheet, (1:250,000)*, 1965 (Second Printing 1973).

CH2M Hill, Inc., *Final Work Plan Groundwater Flow and Transport Modeling, Former Marine Corps Air Station (MCAS) El Toro, Irvine, California and Former MCAS Tustin, Tustin, California*, June 2023.

Environmental Data Resources, Inc., EDR Radius Map Report, NW of Valencia Ave and Legacy Rd, Tustin, CA 92782, March 24, 2025.

Environmental Data Resources, Inc., Aerial Photo Decade Package.

Environmental Data Resources, Inc., Historic Topo Map Report.

EPA Solutions, *Tustin Legacy Specific Plan, City of Tustin – Ordinance 1547*, January 2025.

Federal Emergency Management Agency, *Flood Insurance Rate Map- Community Panel Number: 06059C0279J, Effective Date: December 3, 2009.*

Google Earth.

Jennings, C.W. (1994), *Fault Activity Map of California and Adjacent Areas, with Locations and Ages of Recent Volcanic Eruptions, Scale 1:750,000*, California Division of Mines and Geology Geologic Data Map No. 6.

Jennings and Bryant, 2010, *Fault Activity Map of California*, California Geological Survey.

Norris, R. M., & R. W. Webb, 1976 (Second Edition 1990), *Geology of California*, John Wiley & Sons, New York, pp. 412-427.

Orange, County of, Assessor's Office.

Orange, County of, Environmental Health Division.

State Water Resources Control Board Geotracker website (http://geotracker.swrcb.ca.gov)

United States Department of Agriculture, National Resources Conservation Service, Web Soil Survey (https://websoilsurvey.nrcs.usda.gov/app/).

PLATES



padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

SCHOOL SITE
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0091	4/24/25	AC	AJK

PLATE 1

SITE LOCATION



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GOOGLE EARTH IMAGERY (11/23)

0 300
FEET

SCHOOL SITE
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

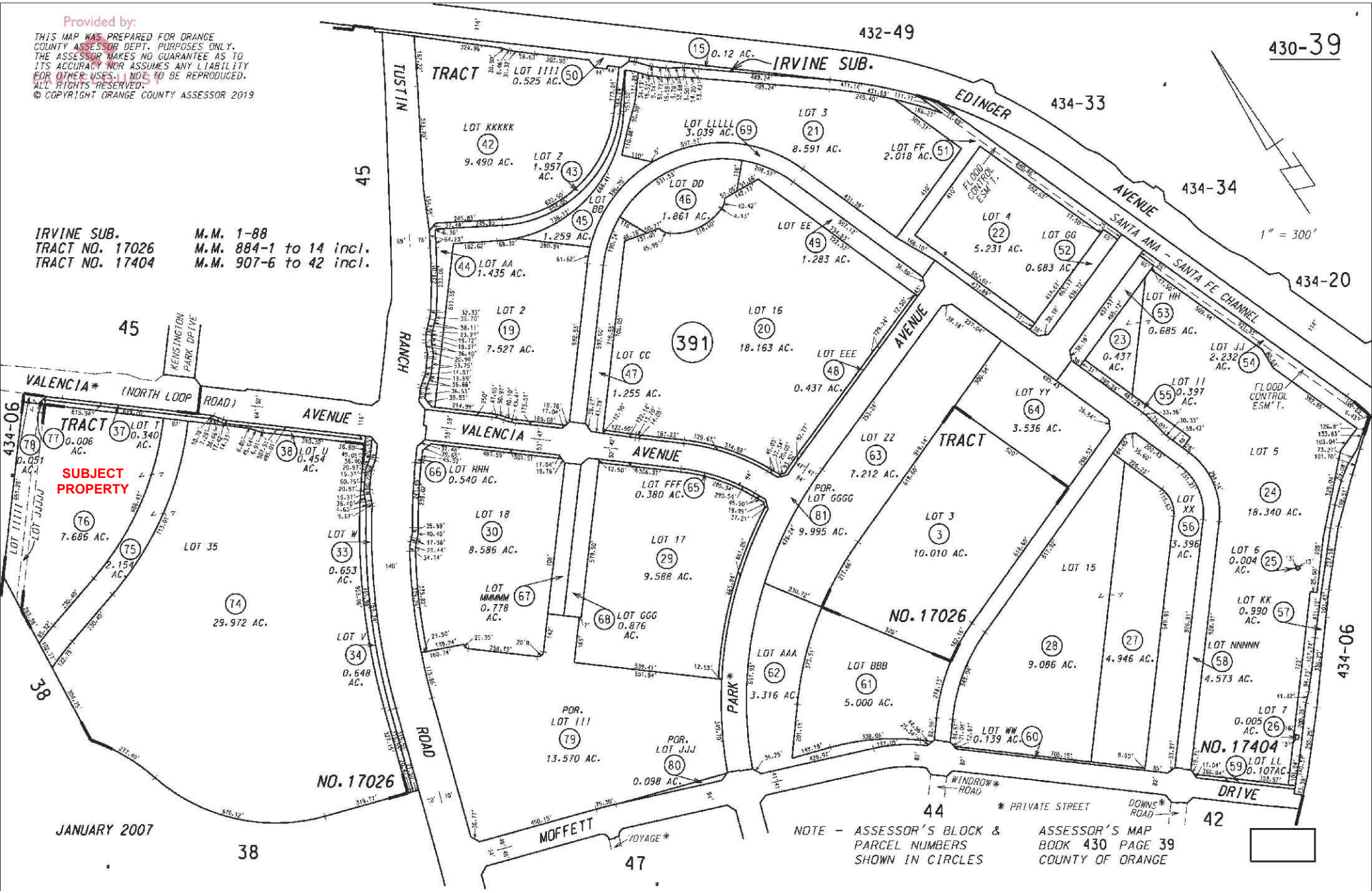
PROJECT NO.	DATE	DR. BY	APP. BY
2501-0091	5/6/25	AC	AJK

PLATE 2

SITE MAP

APPENDIX A

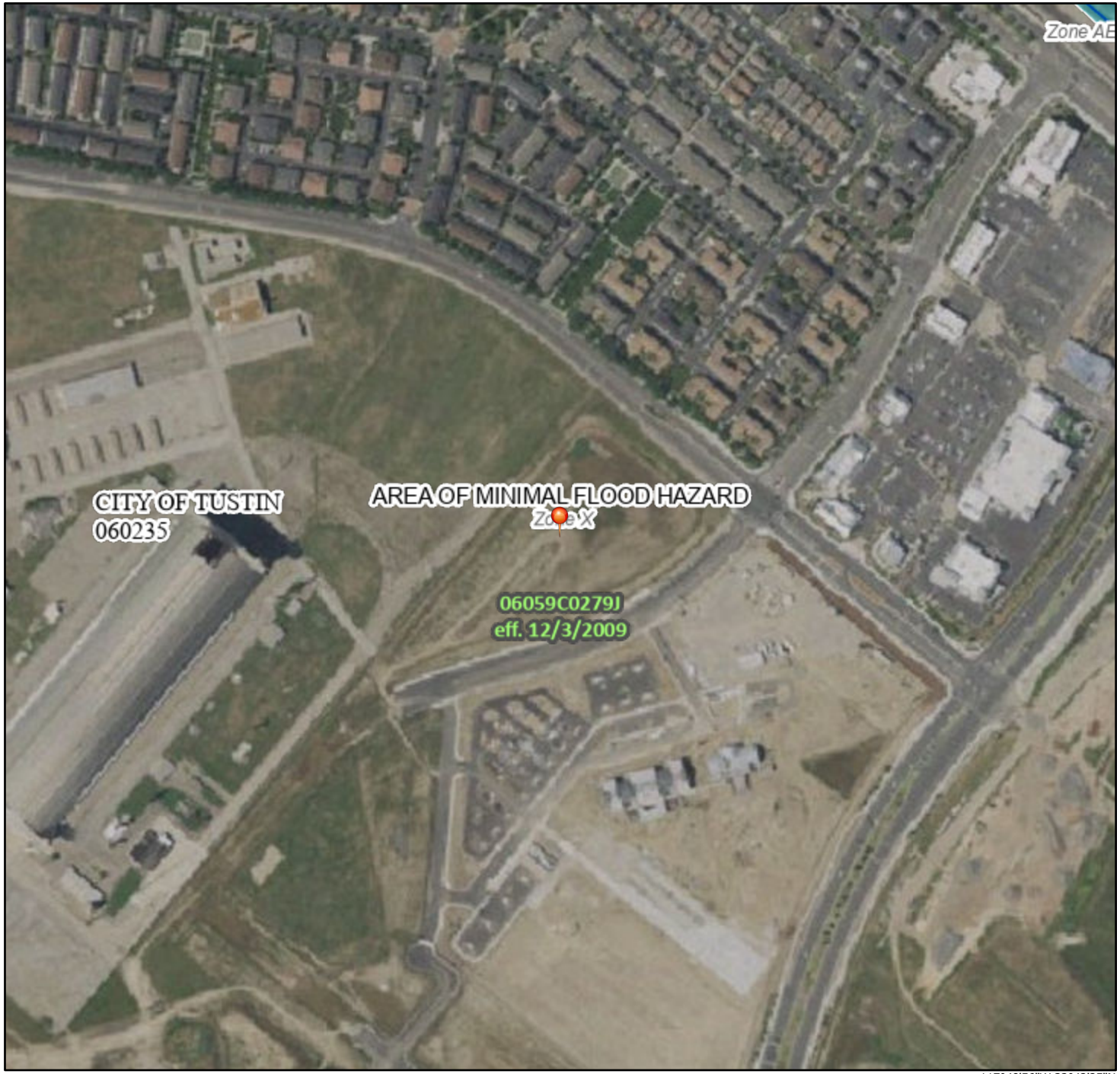
ASSESSOR'S PARCEL MAP
AND FLOOD INSURANCE RATE MAP


Provided by:
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IRVINE SUB. M.M. 1-88
TRACT NO. 17026 M.M. 884-1 to 14 incl.
TRACT NO. 17404 M.M. 907-6 to 42 incl.
SUBJECT PROPERTY
IRVINE SUB.
EDINGER AVENUE
SANTA ANA - SANTA FE CHANNEL
TUSTIN RANCH ROAD
VALENCIA AVENUE
(NORTH LOOP ROAD)
KENSINGTON PARK DRIVE
PARK AVENUE
MOFFETT ROAD
WINDROW ROAD
DOWNS ROAD
VOYAGE
DRIVE
FLOOD CONTROL ESM'T.
TRACT
NO. 17026
NO. 17404
LOT 35
LOT 3
LOT 15
LOT 5
LOT 16
LOT 17
LOT 18
LOT 2
LOT 4
LOT AAA
LOT BBB
LOT CCC
LOT DDD
LOT EEE
LOT FFF
LOT GGG
LOT HHH
LOT III
LOT JJJ
LOT KKKKK
LOT LLLLL
LOT MMMMM
LOT NNNNN
LOT T
LOT U
LOT V
LOT W
LOT Z
LOT AA
LOT BB
LOT CC
LOT DD
LOT EE
LOT FF
LOT GG
LOT HH
LOT II
LOT JJ
LOT KK
LOT LL
LOT WW
LOT XX
LOT YY
LOT ZZ
LOT GGGG
POR. LOT III
POR. LOT JJJ
391
432-49
430-39
434-33
434-34
434-20
434-06
1" = 300'
* PRIVATE STREET
NOTE - ASSESSOR'S BLOCK & PARCEL NUMBERS SHOWN IN CIRCLES
ASSESSOR'S MAP BOOK 430 PAGE 39 COUNTY OF ORANGE
JANUARY 2007

National Flood Hazard Layer FIRMette

FEMA

117°49'33"W 33°42'55"N



117°48'56"W 33°42'25"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000 E-38

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

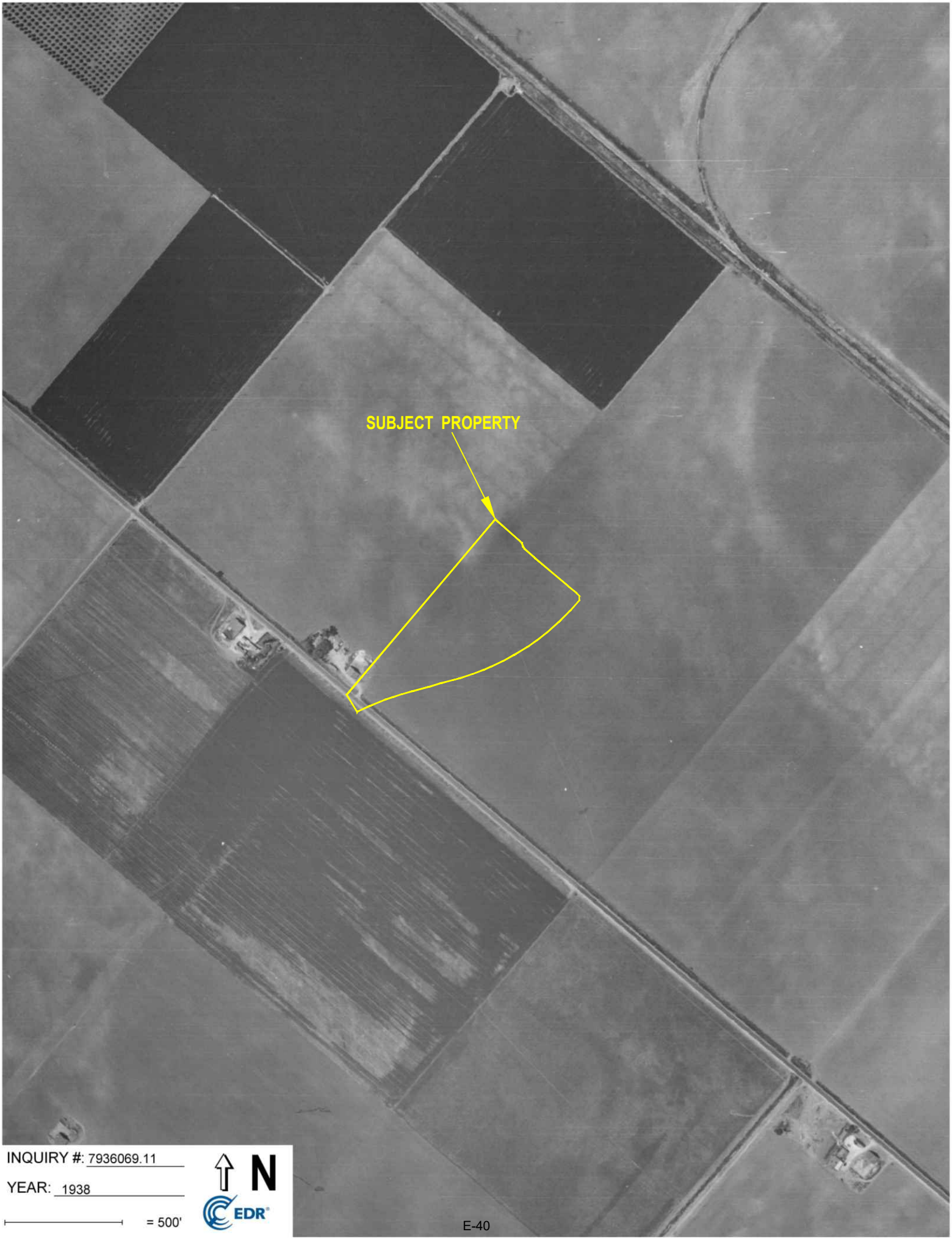
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/4/2025 at 10:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX B

HISTORICAL AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAPS



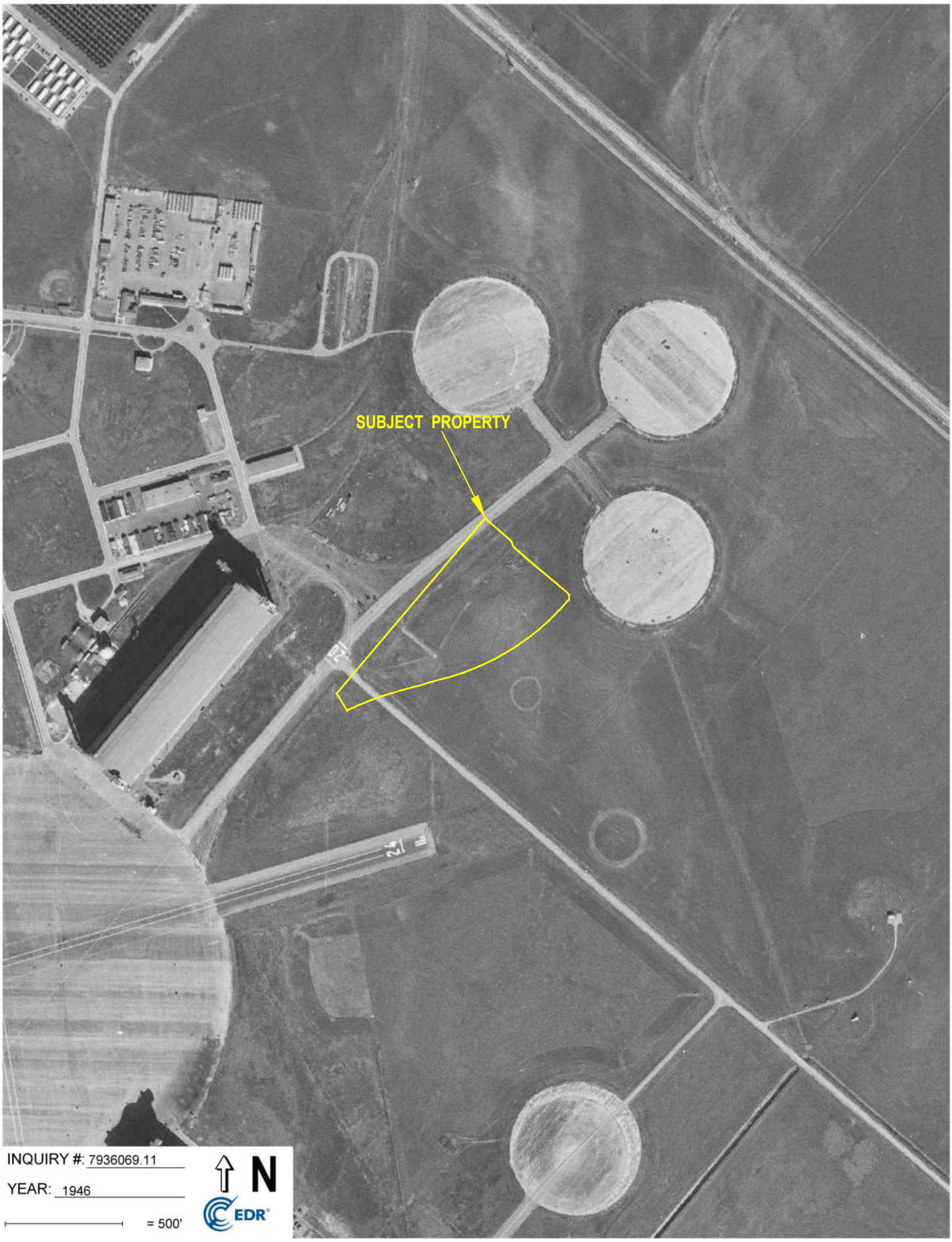
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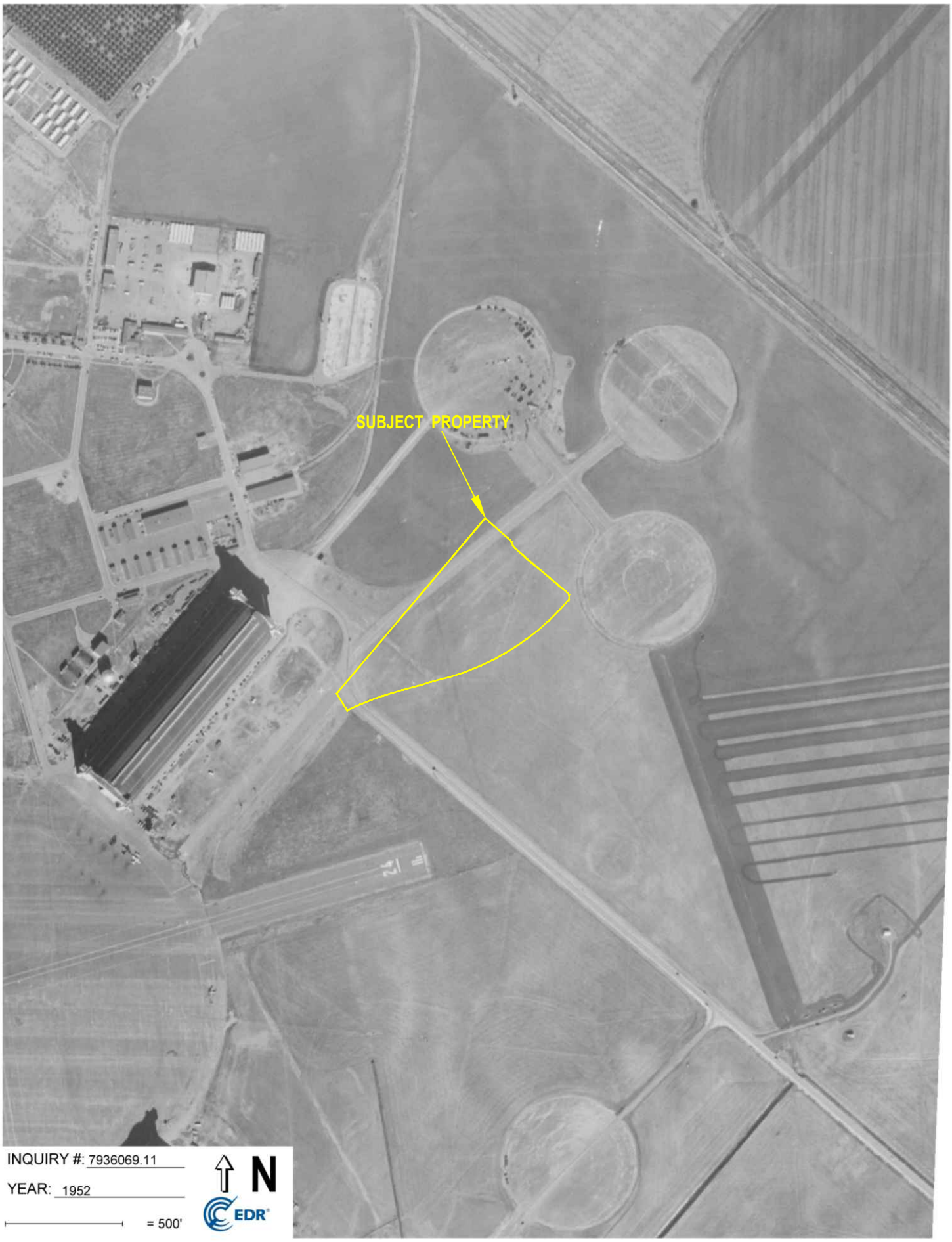
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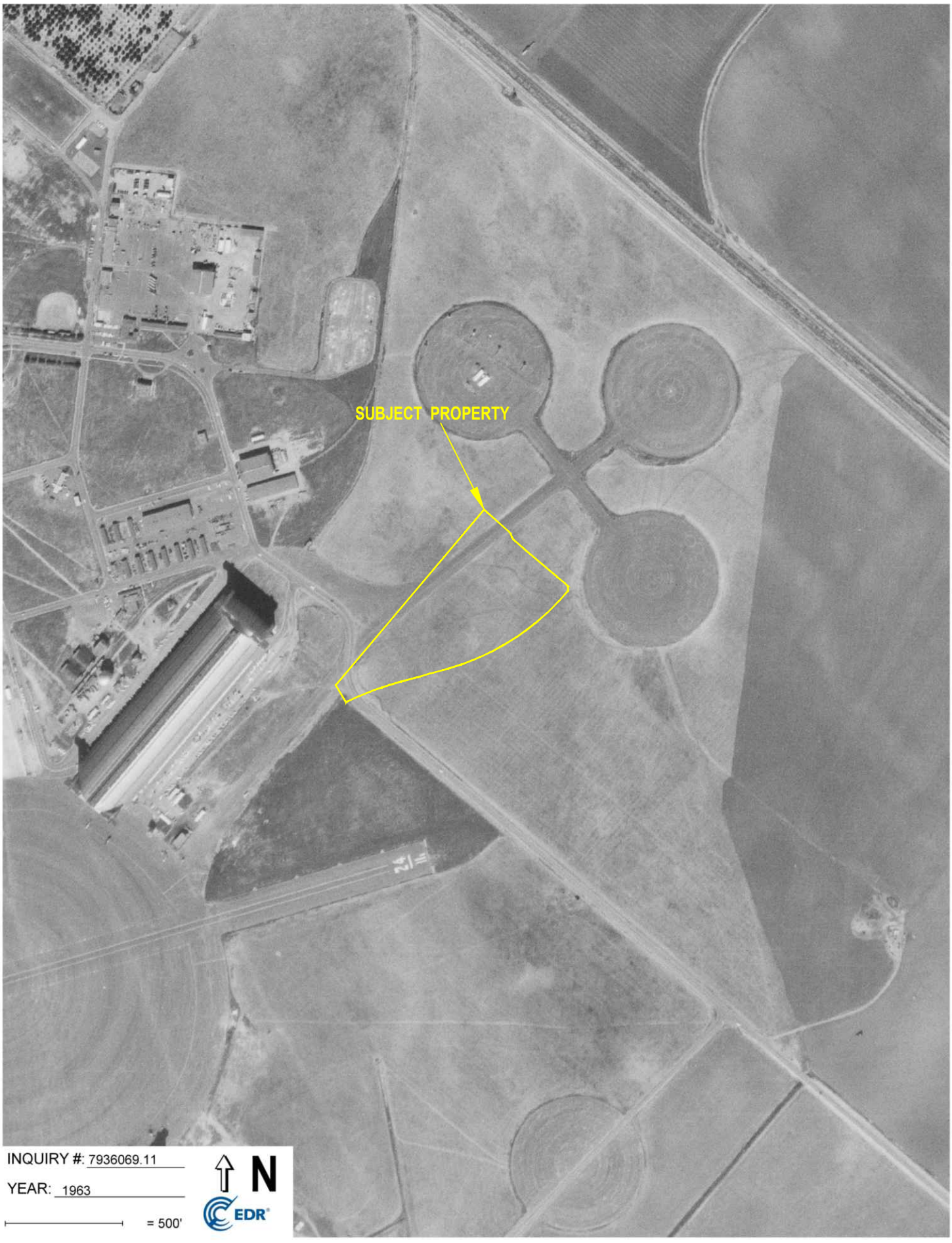
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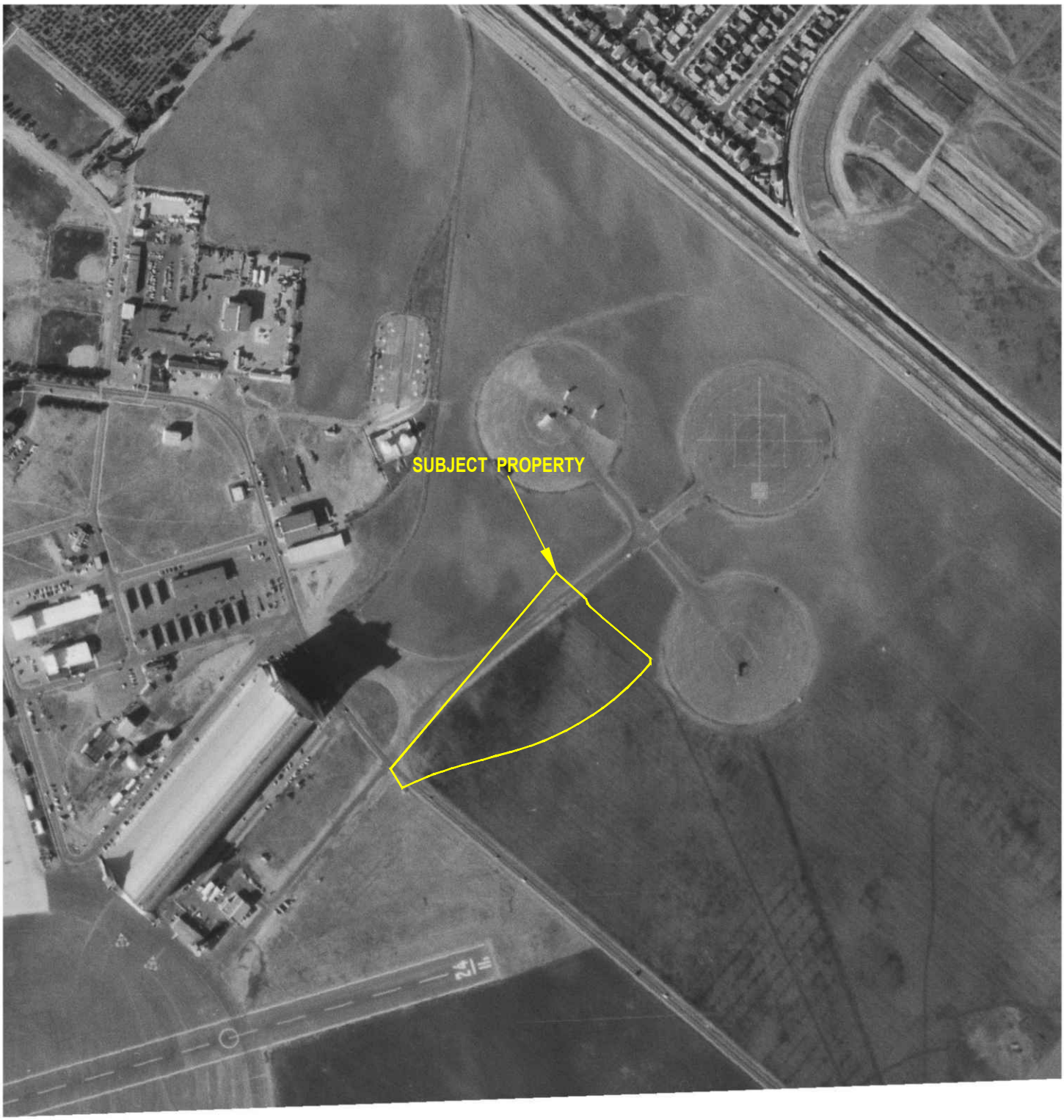
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EDR


SUBJECT PROPERTY
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EDR


SUBJECT PROPERTY
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YEAR: 1952
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N
EDR


SUBJECT PROPERTY
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YEAR: 1972

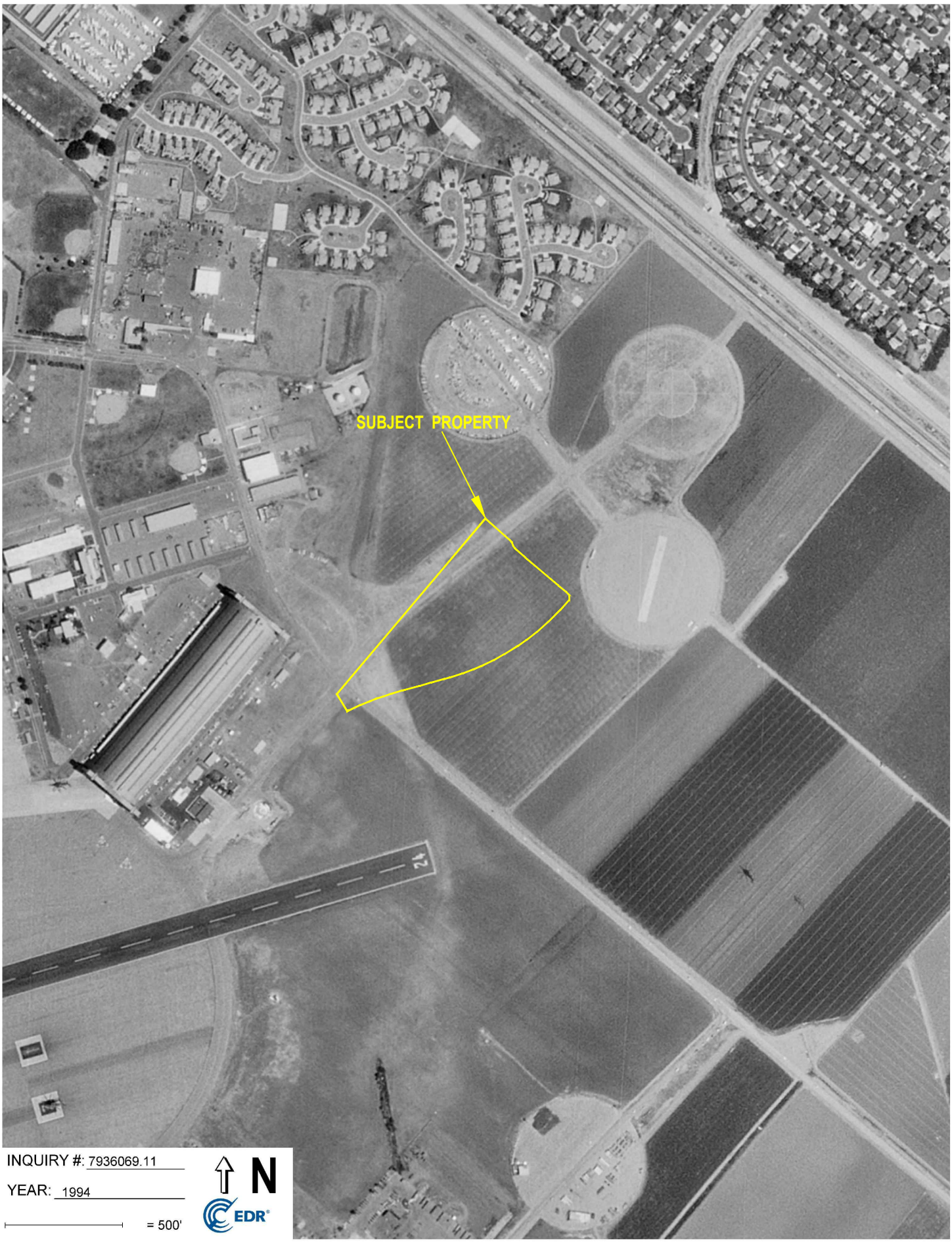
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EDR


SUBJECT PROPERTY
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EDR


SUBJECT PROPERTY
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EDR

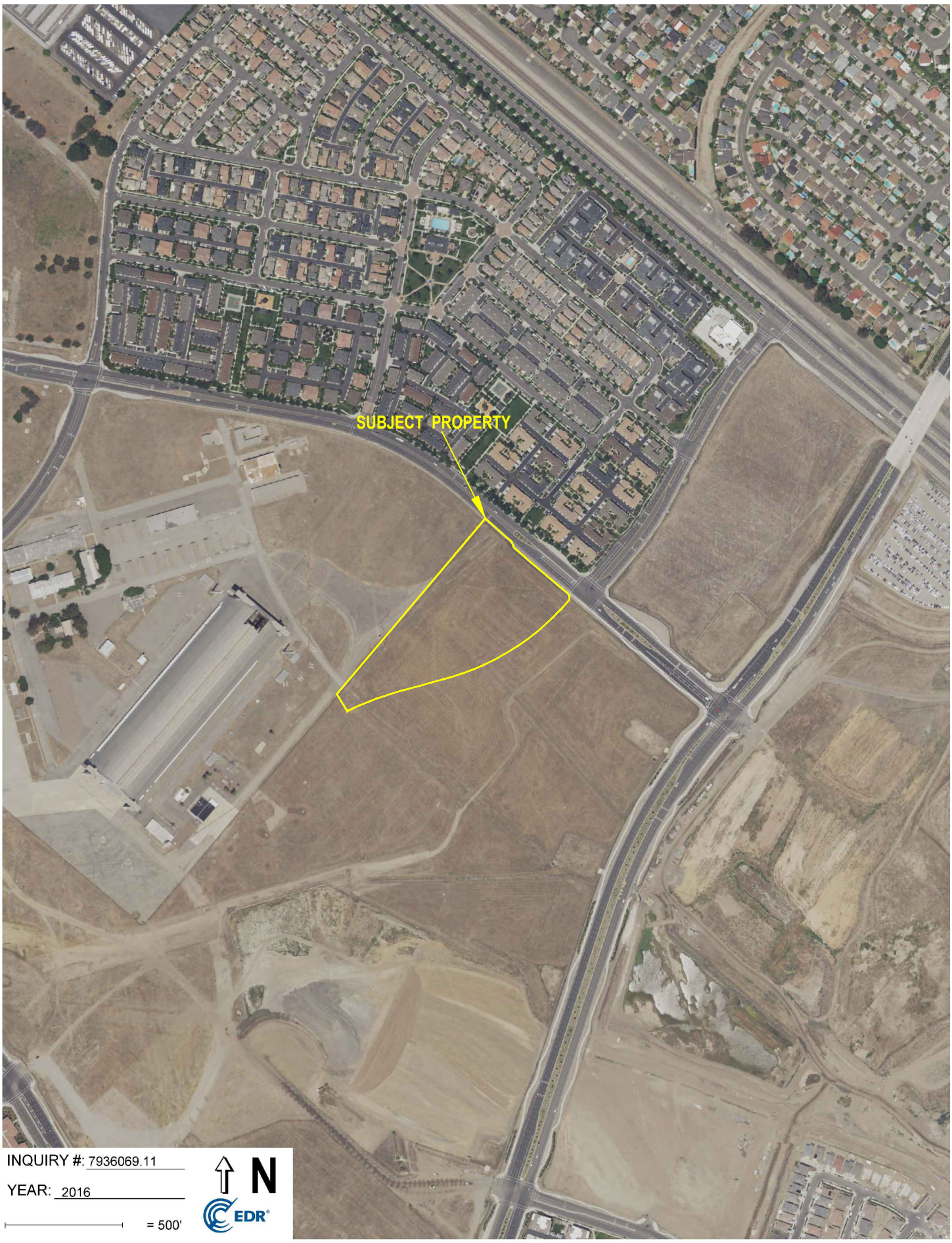

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EDR

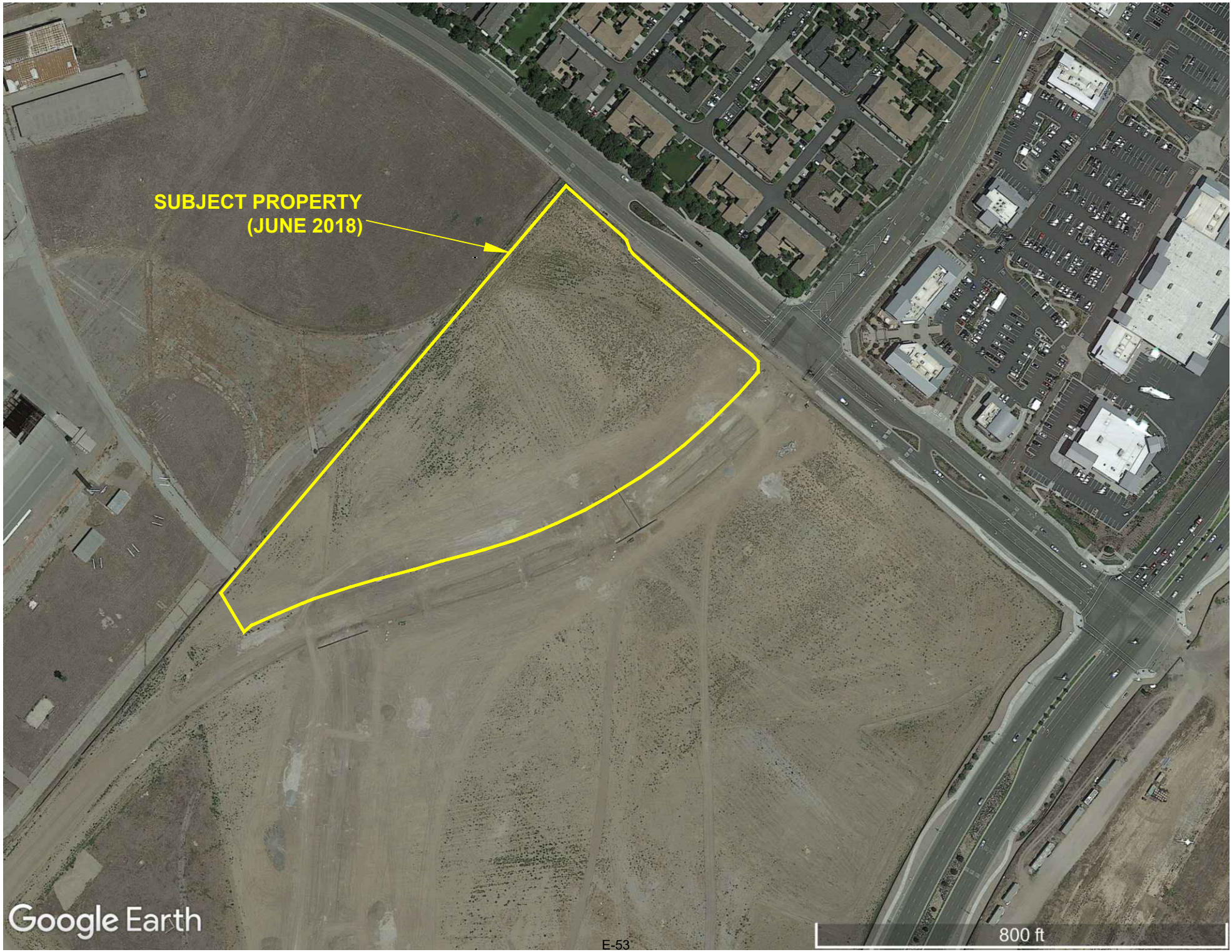

SUBJECT PROPERTY
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EDR


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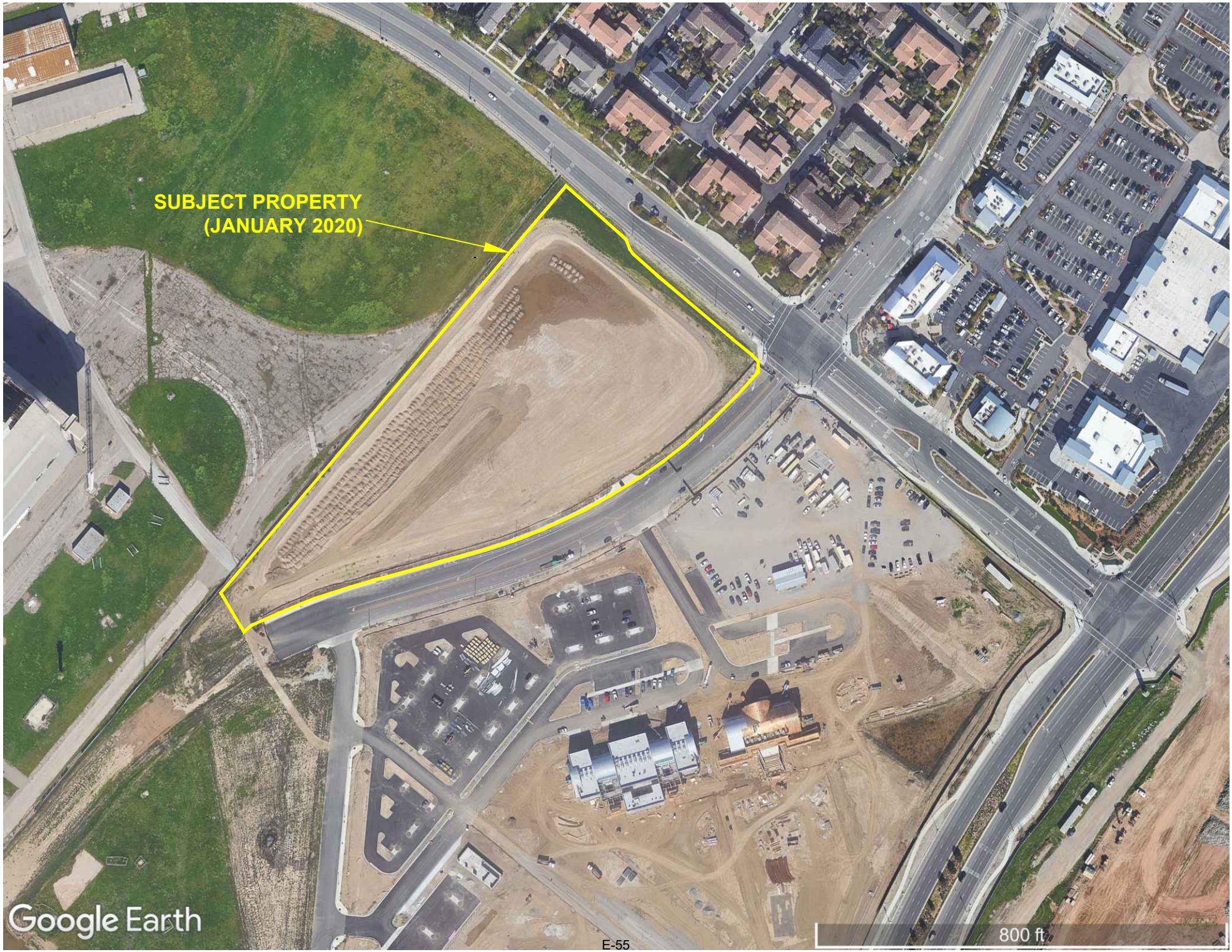

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EDR

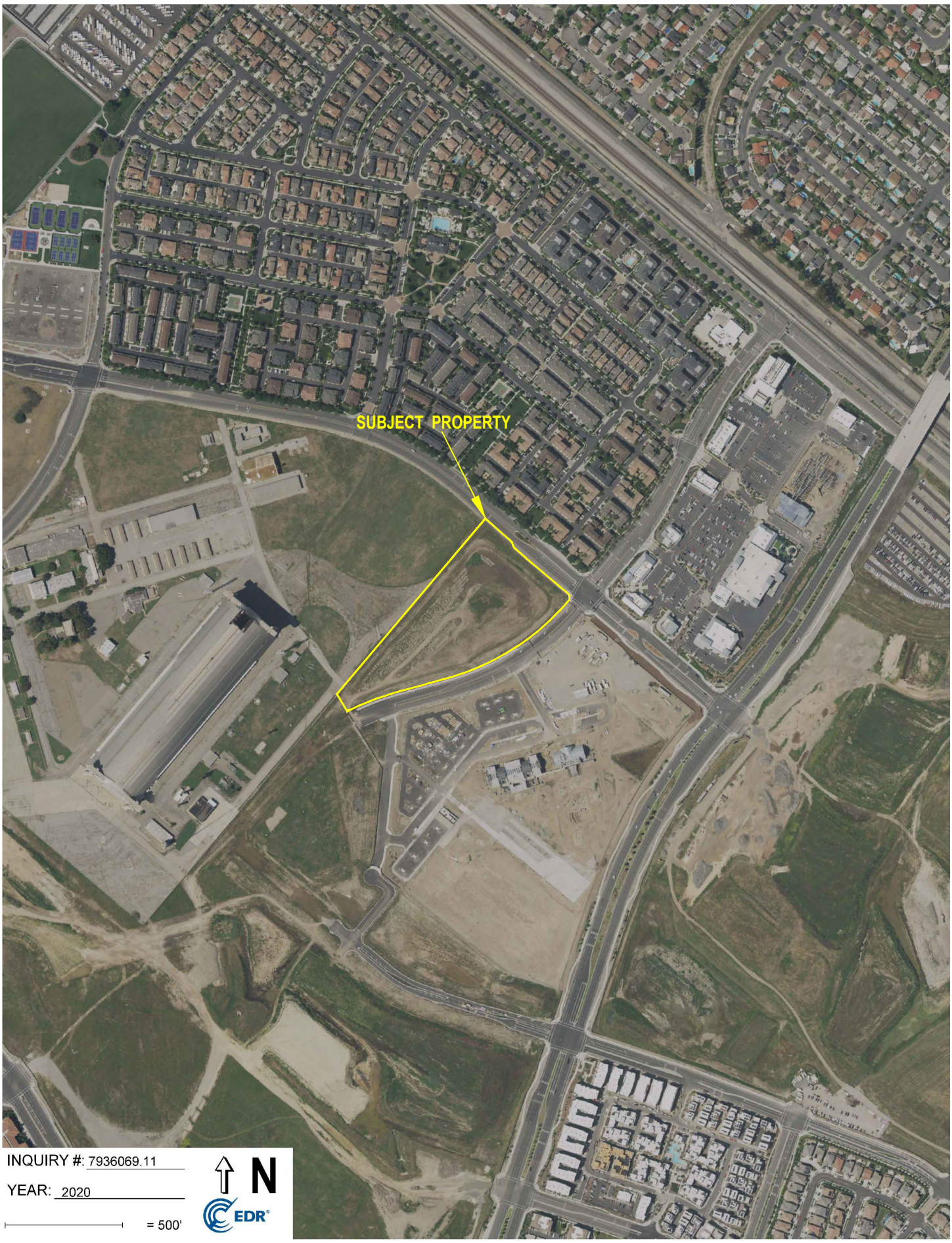

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YEAR: 2012
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N
EDR


SUBJECT PROPERTY
INQUIRY #: 7936069.11
YEAR: 2016
= 500'
N
EDR


SUBJECT PROPERTY
(JUNE 2018)
Google Earth
800 ft

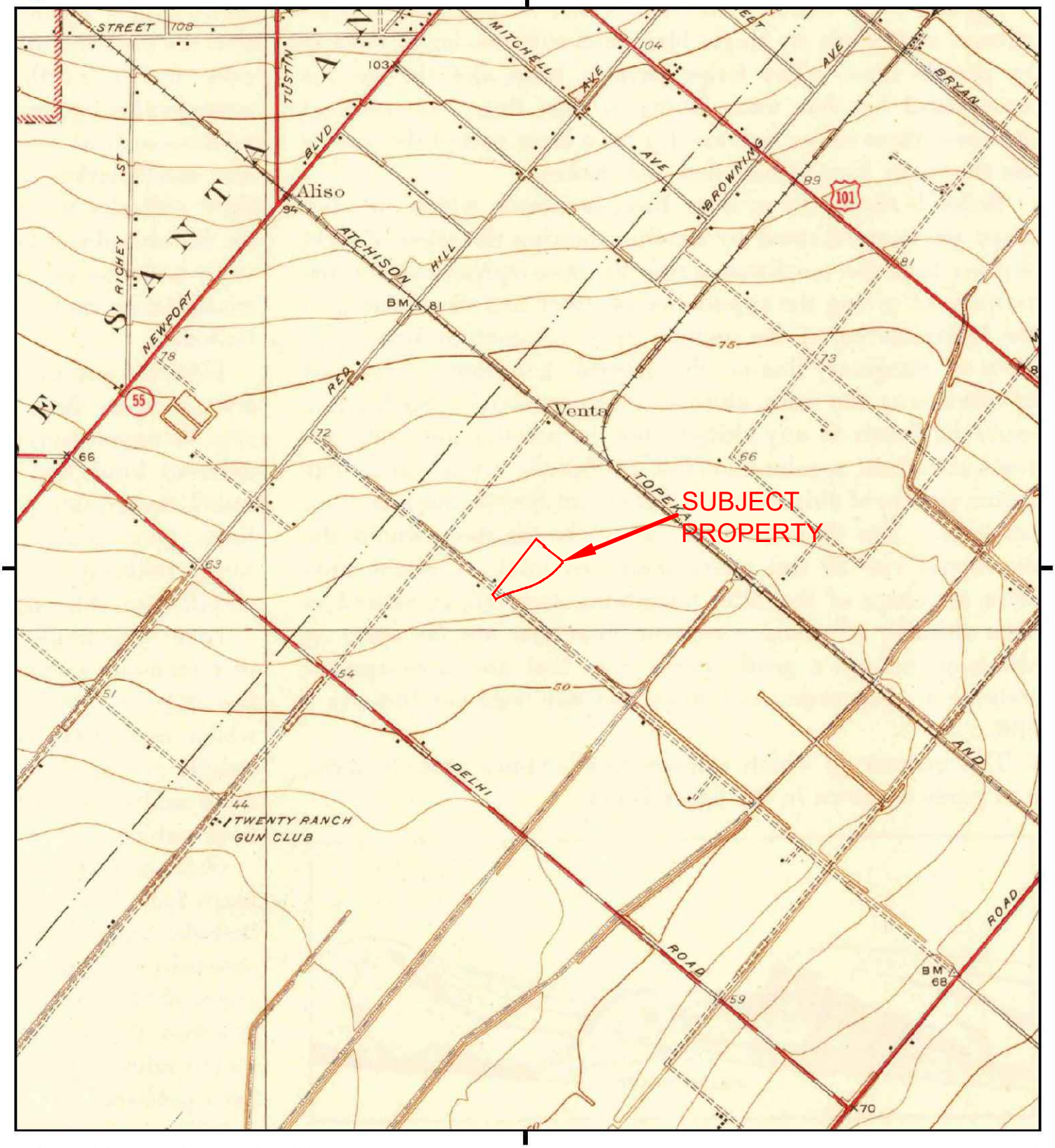

SUBJECT PROPERTY
(MAY 2019)
Google Earth
800 ft


SUBJECT PROPERTY
(JANUARY 2020)
Google Earth
800 ft


SUBJECT PROPERTY
INQUIRY #: 7936069.11
YEAR: 2020
= 500'
N
EDR

Historical Topo Map

1935



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

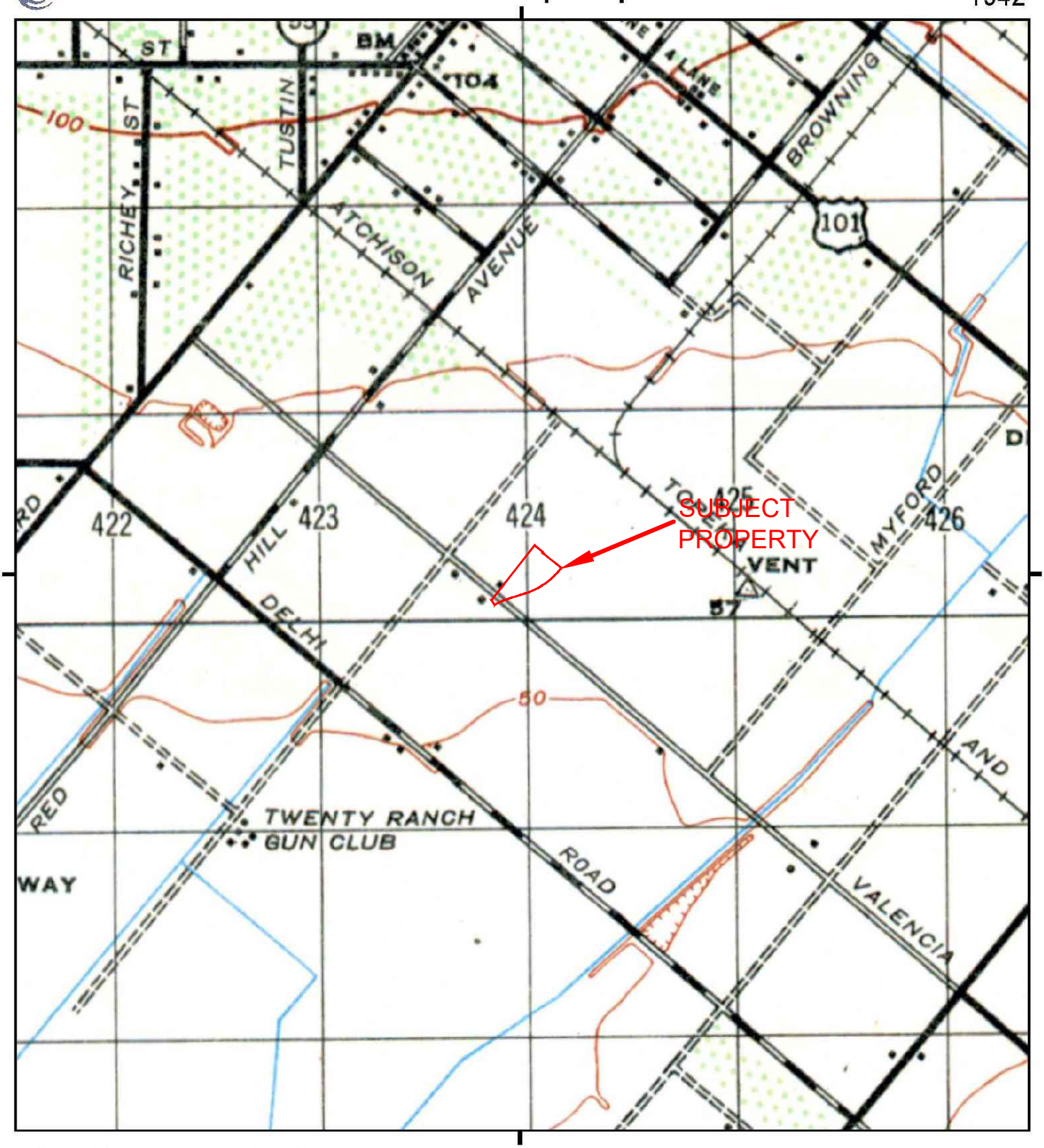
TP, Tustin, 1935, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1942



This report includes information from the following map sheet(s).

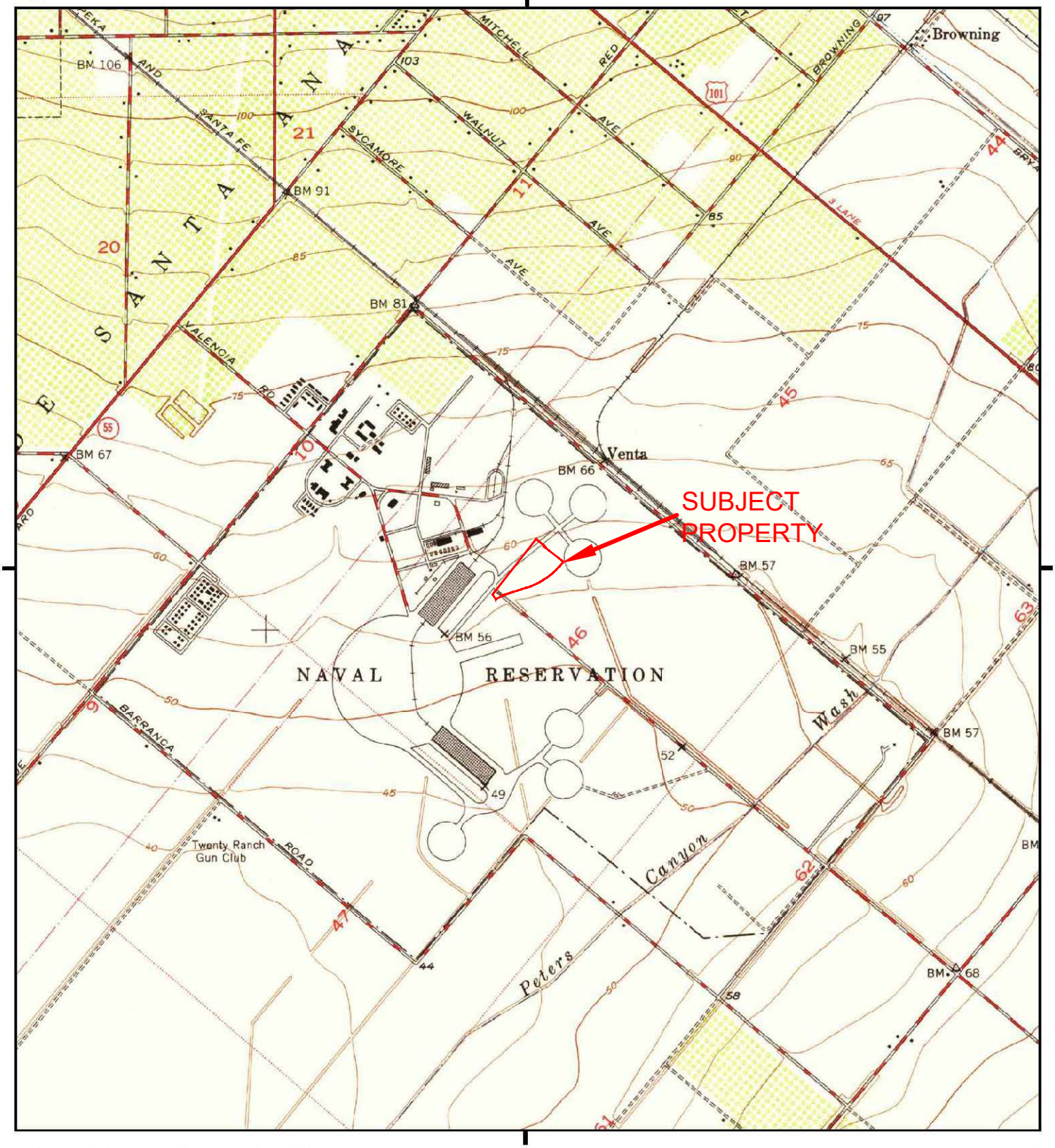
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, SANTA ANA, 1942, 15-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

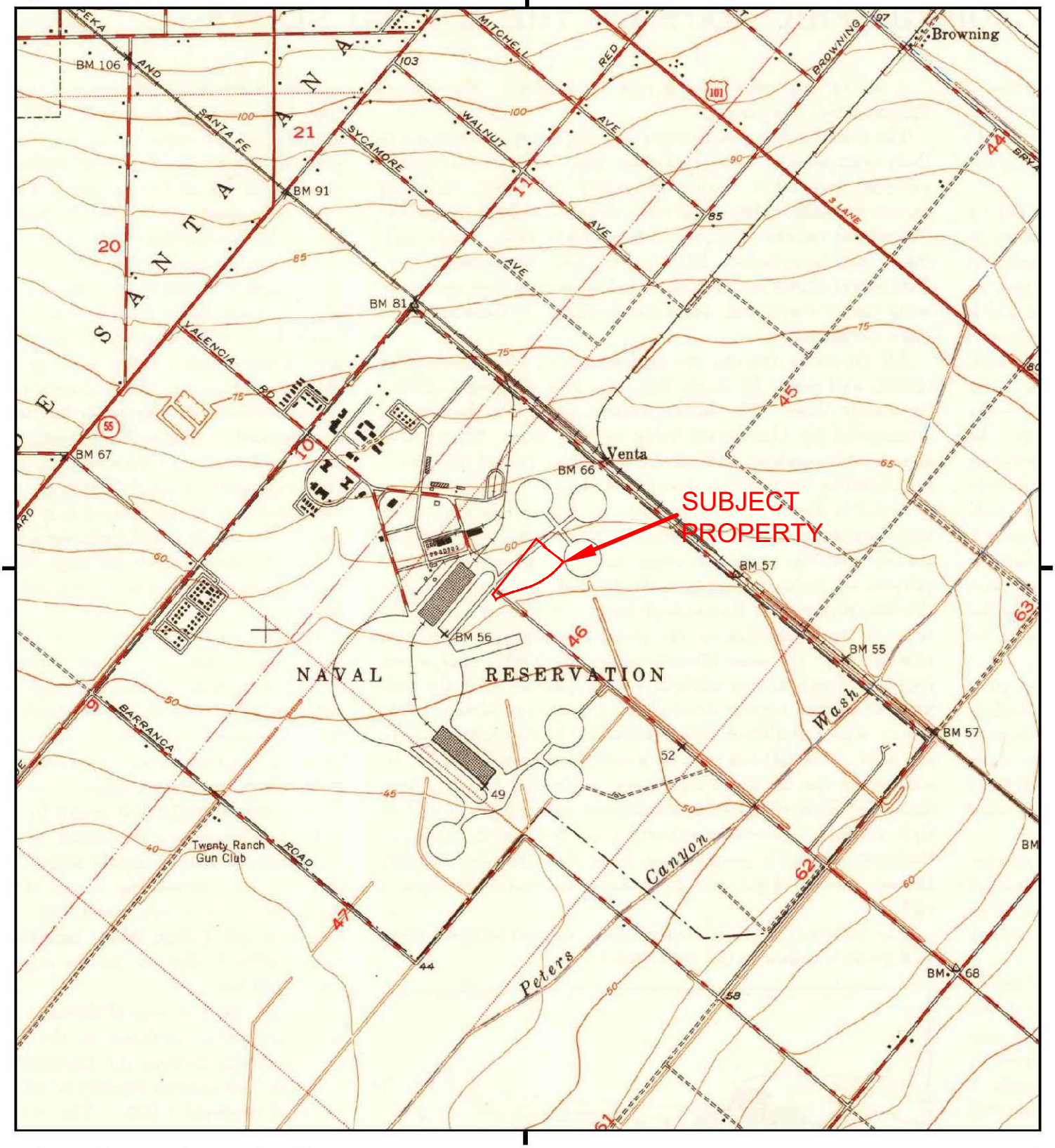
TP, Tustin, 1948, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1950



This report includes information from the following map sheet(s).

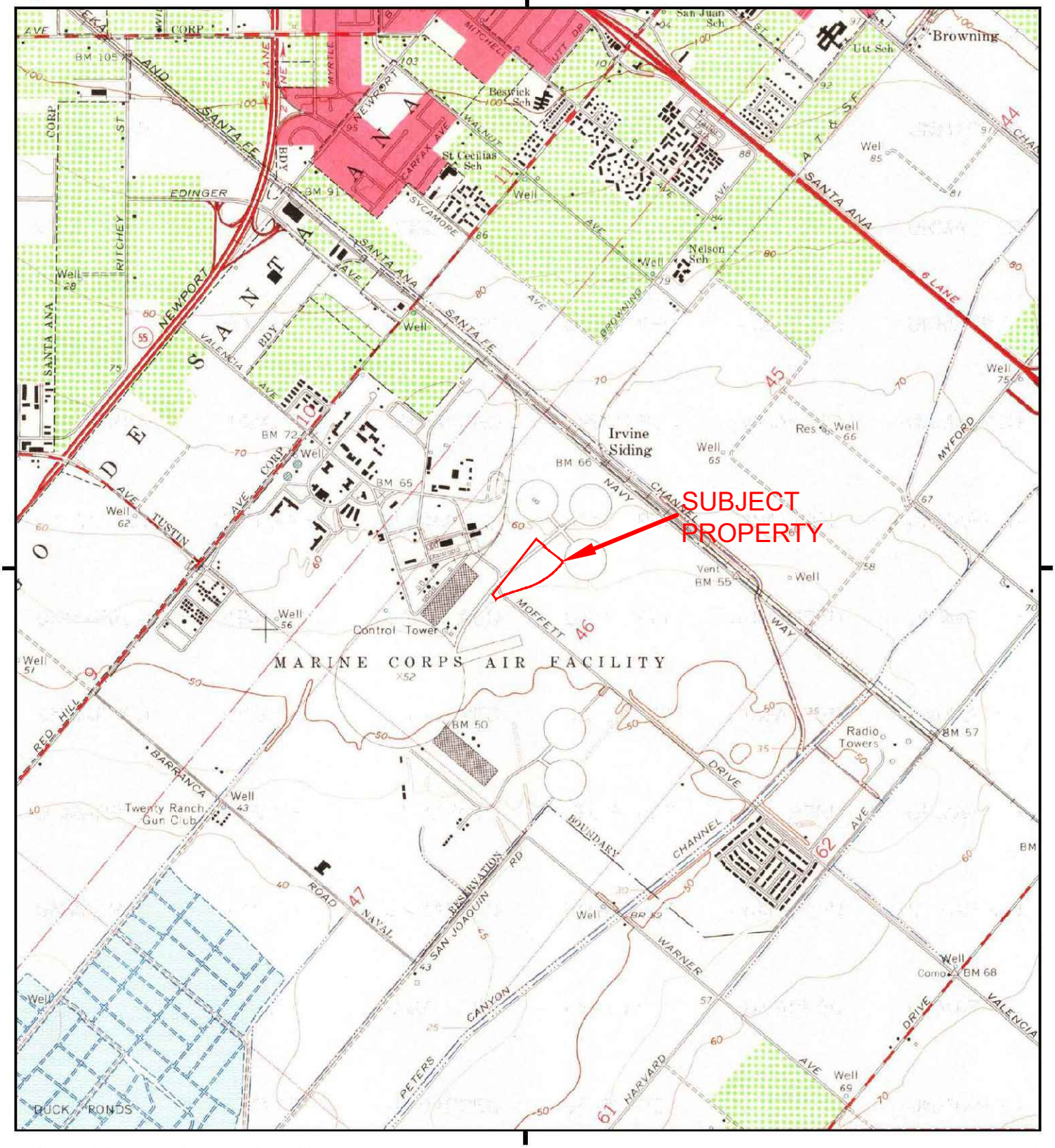
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 1950, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N



This report includes information from the following map sheet(s).

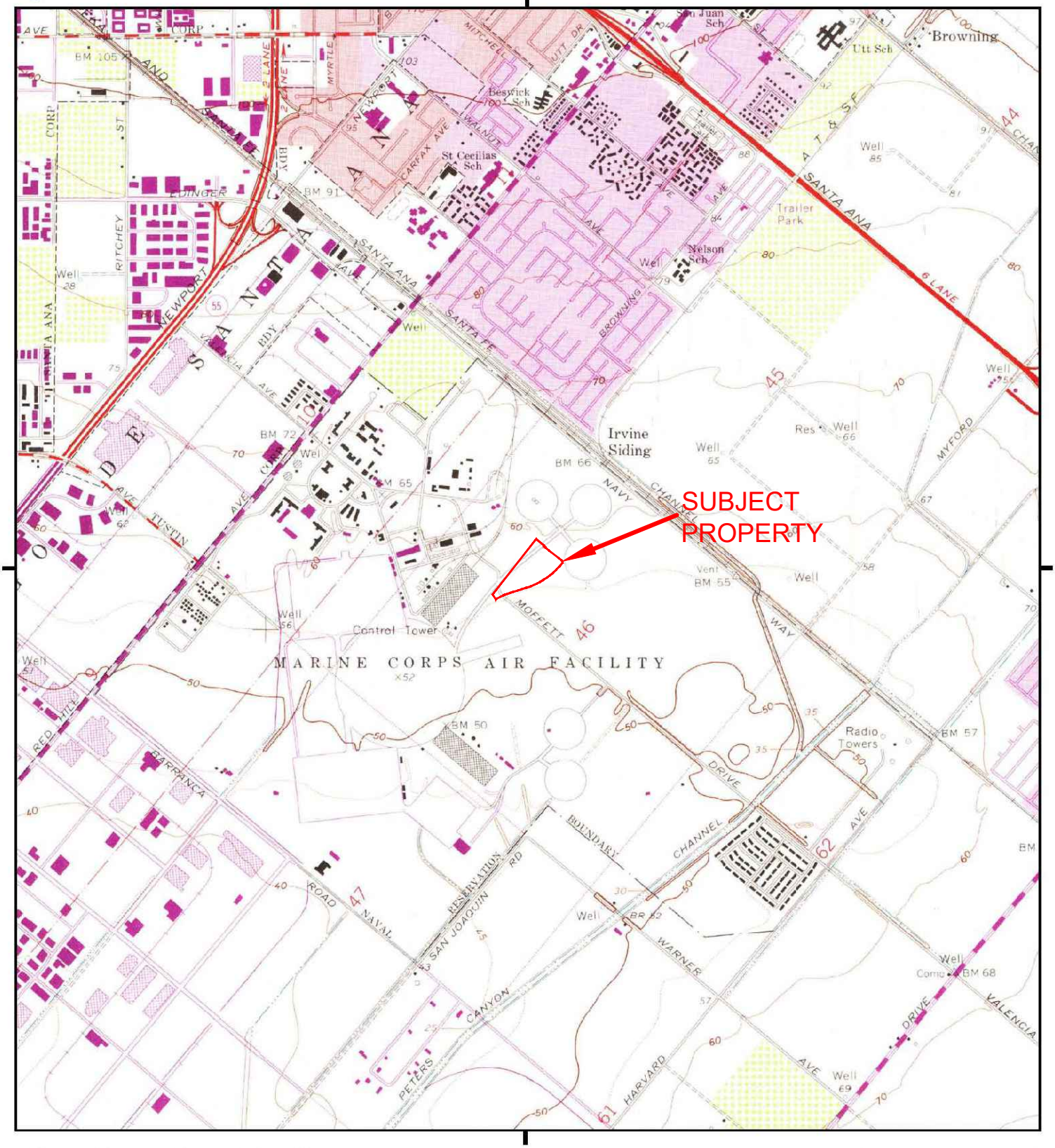
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 1965, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N



This report includes information from the following map sheet(s).

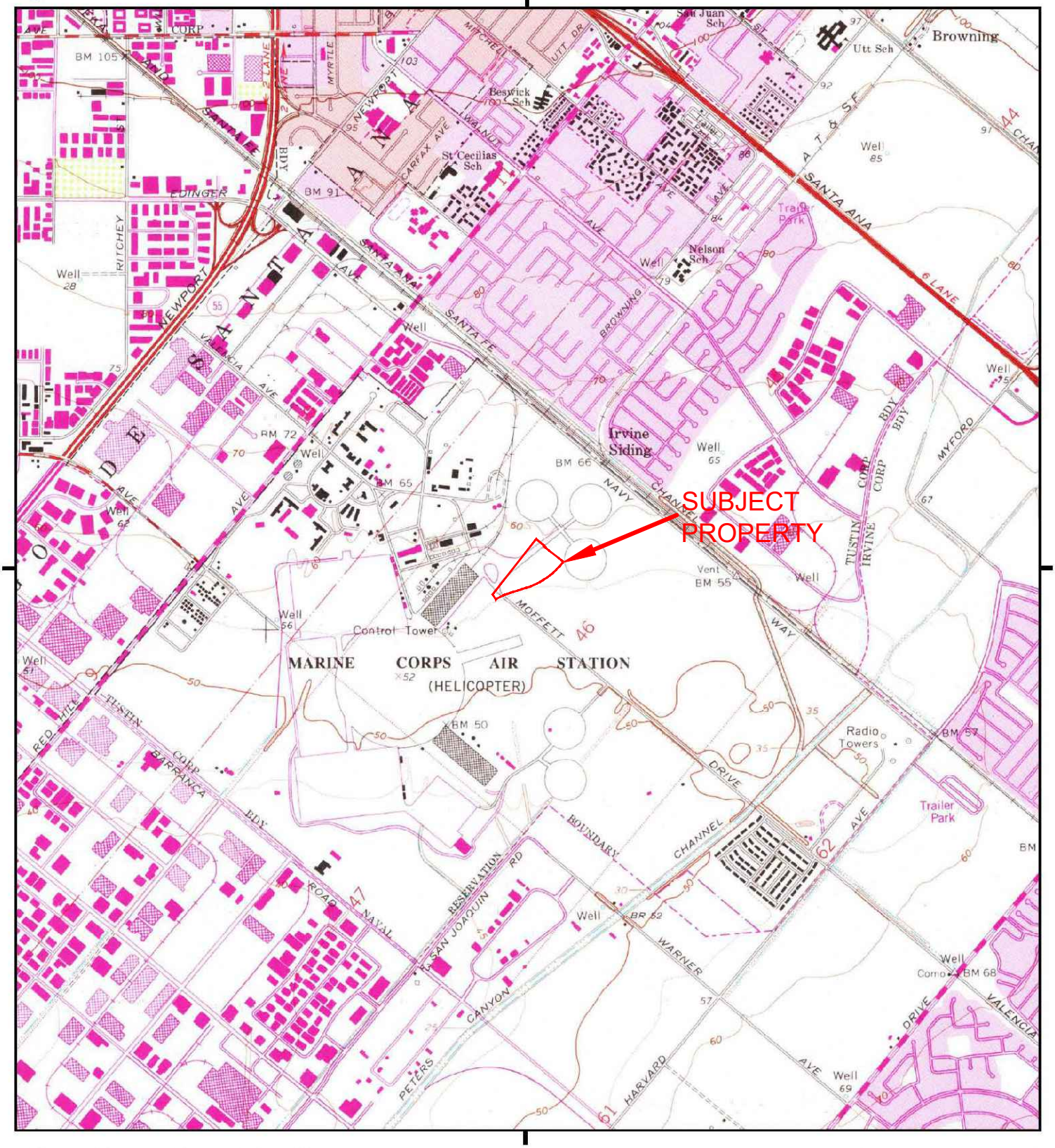
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 1972, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor A
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

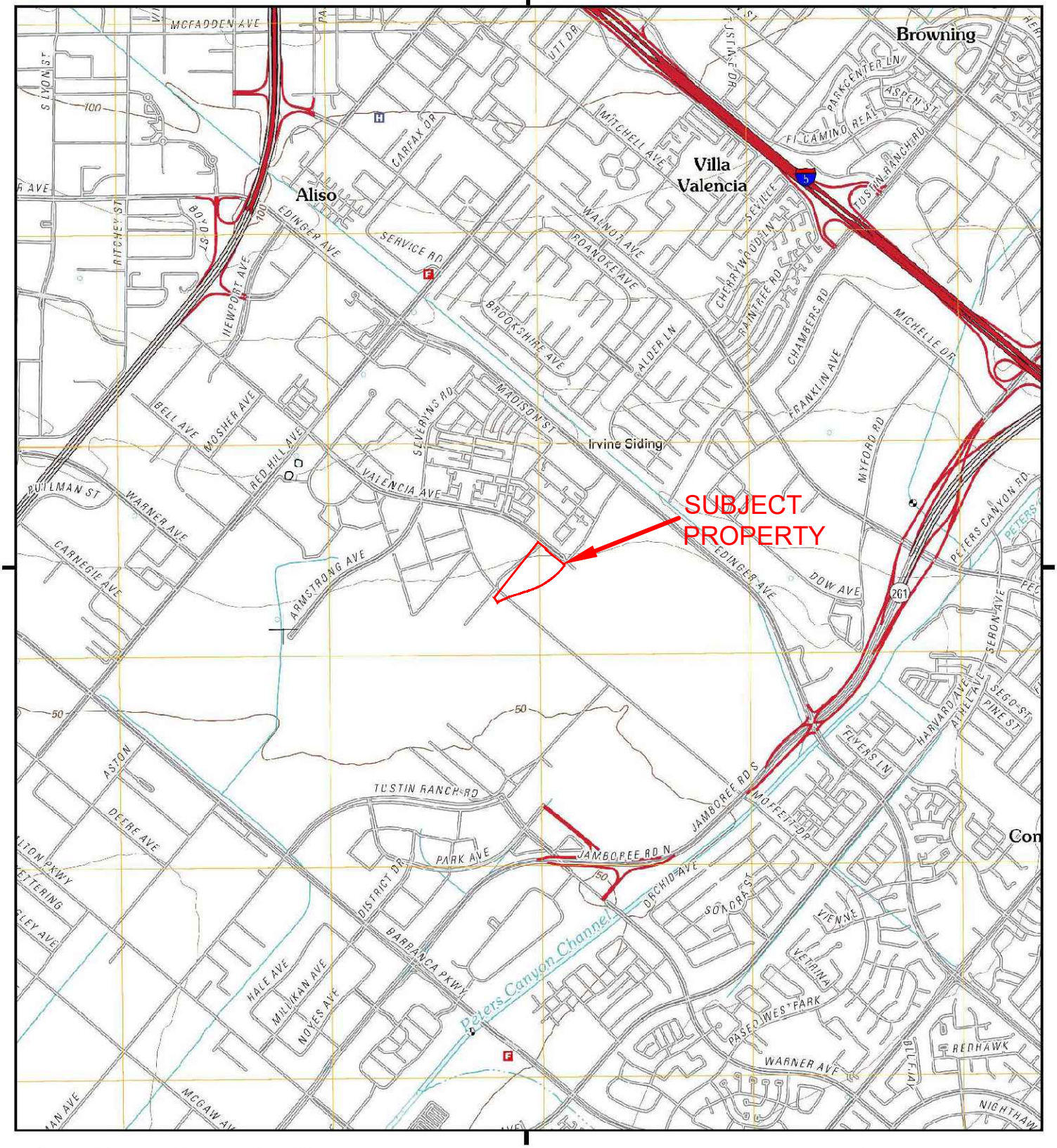
TP, Tustin, 1981, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

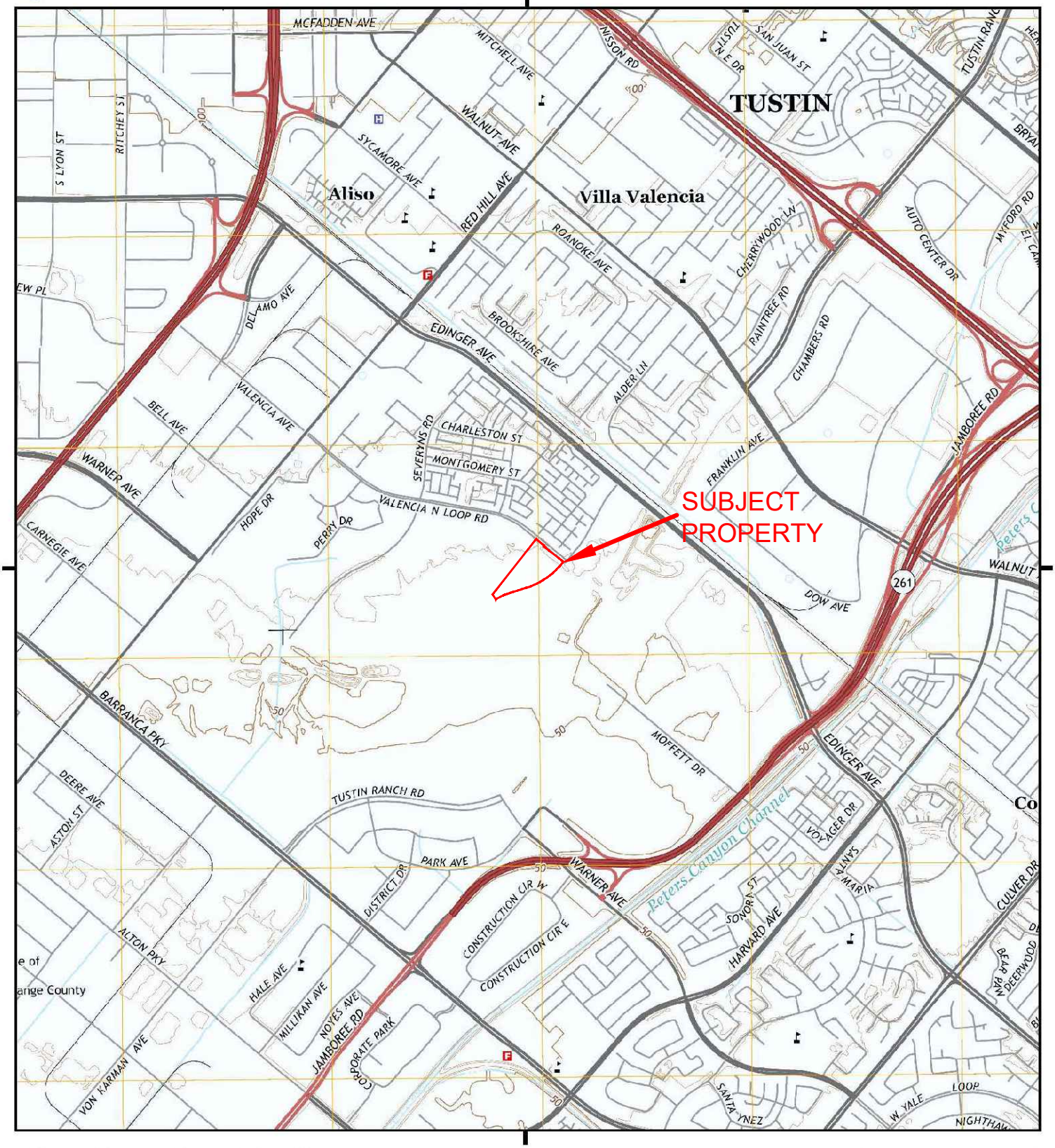
TP, Tustin, 2012, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor A
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

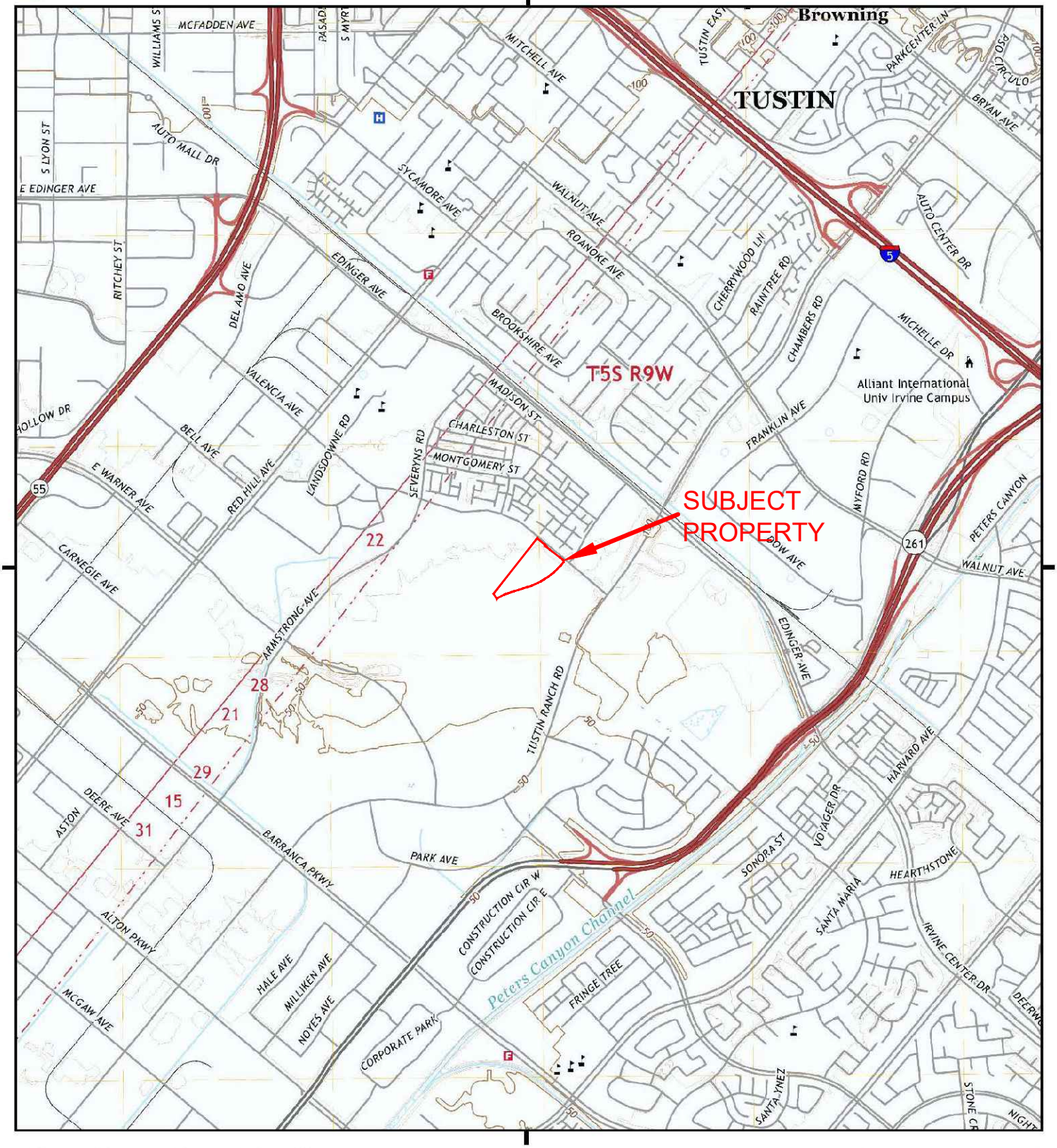
TP, Tustin, 2015, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

TP, Tustin, 2018, 7.5-minute

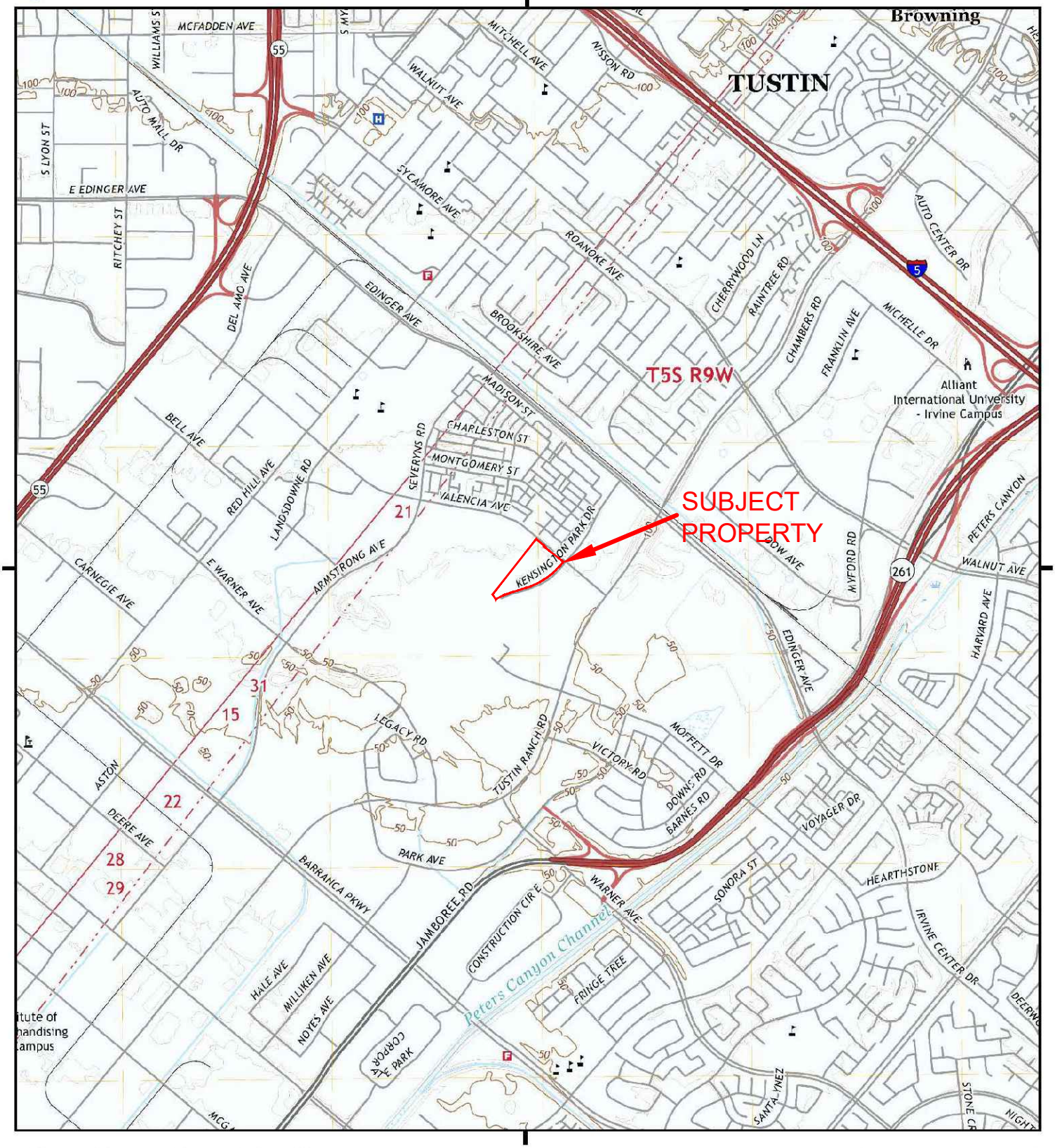
NW N NE W E SW S SE

SITE NAME: Tustin USD - District Office and Outdoor /
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

Historical Topo Map

2022



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 2022, 7.5-minute

SITE NAME: Tustin USD - District Office and Outdoor A
ADDRESS: NW of Valencia Ave and Legacy Rd
Tustin, CA 92782
CLIENT: Padre Associates, Inc

N

APPENDIX C

PREVIOUS ENVIRONMENTAL ASSESSMENTS FIGURES

Scale: 1" = 445'



Areas Requiring Institutional Controls - Groundwater
Areas Requiring Institutional Controls - Vapor Intrusion
TCE in Groundwater (2013)
Parcels to be donated by City of Tustin
Proposed Soil Gas Location (SG)
Proposed Soil, Soil Gas, and Groundwater Sampling Location
Former Proposed Boundary
MCAS Extraction Well
MCAS Monitoring Well

ADVANCED ENVIRONMENTAL CONCEPTS INC

220 East Truxtun Avenue
Bakersfield, California 93305
(661) 395-1646

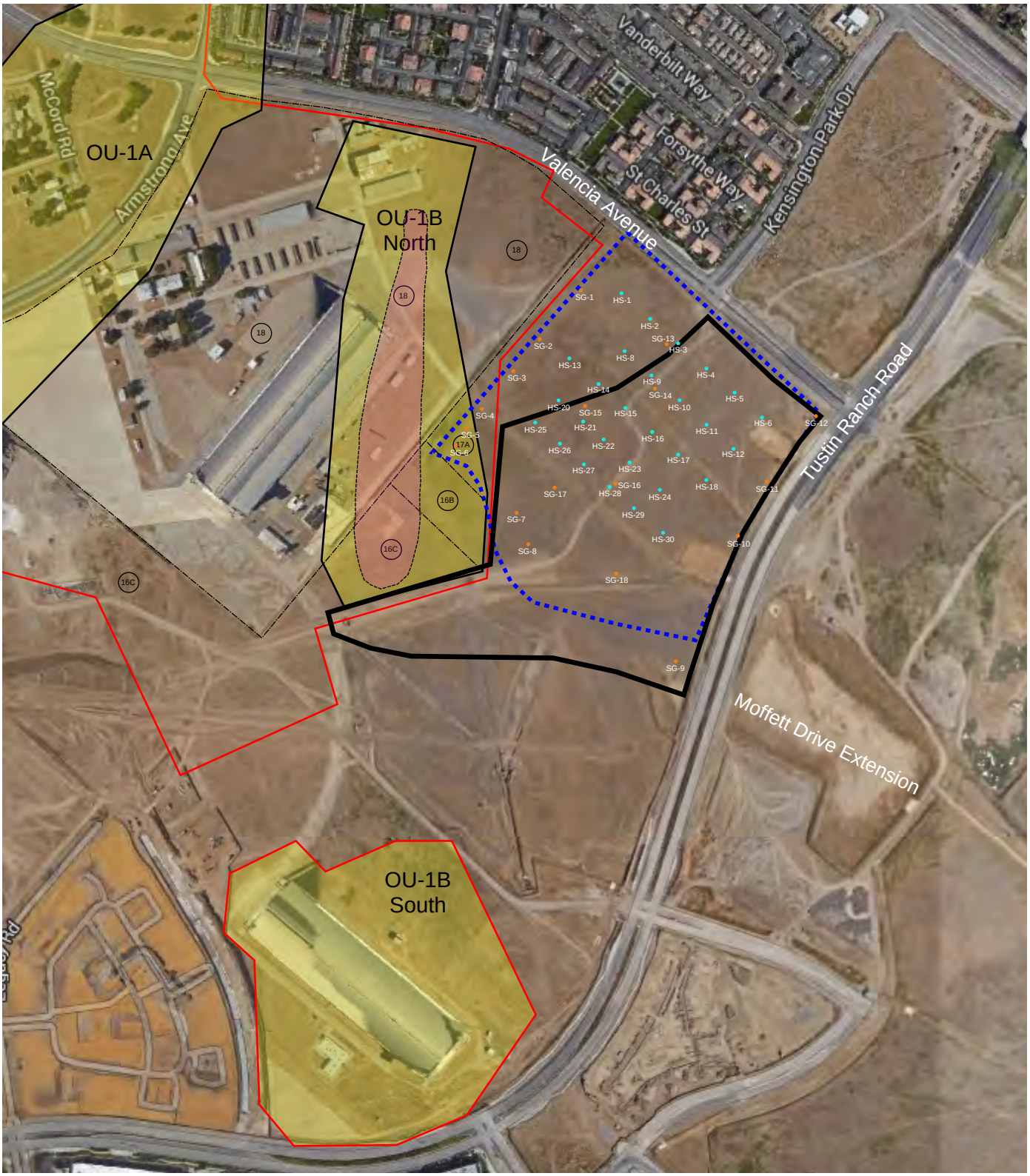
Proposed Soil, Soil Gas, and Groundwater Sampling Locations

Tustin MCAS - Legacy
City of Tustin Donation Parcel(s)
County of Orange ● Tustin, California

FIGURE

2

Scale: 1” = 610’



- Soil Boring Location
- Soil Gas Location
- New Proposed Boundary
- Areas Requiring Institutional Controls - Groundwater
- Former Proposed Boundary
- Areas Requiring Institutional Controls - Vapor Intrusion
- TCE in Groundwater (2013)

ADVANCED ENVIRONMENTAL CONCEPTS INC

220 East Truxtun Avenue
Bakersfield, California 93305
(661) 395-1646

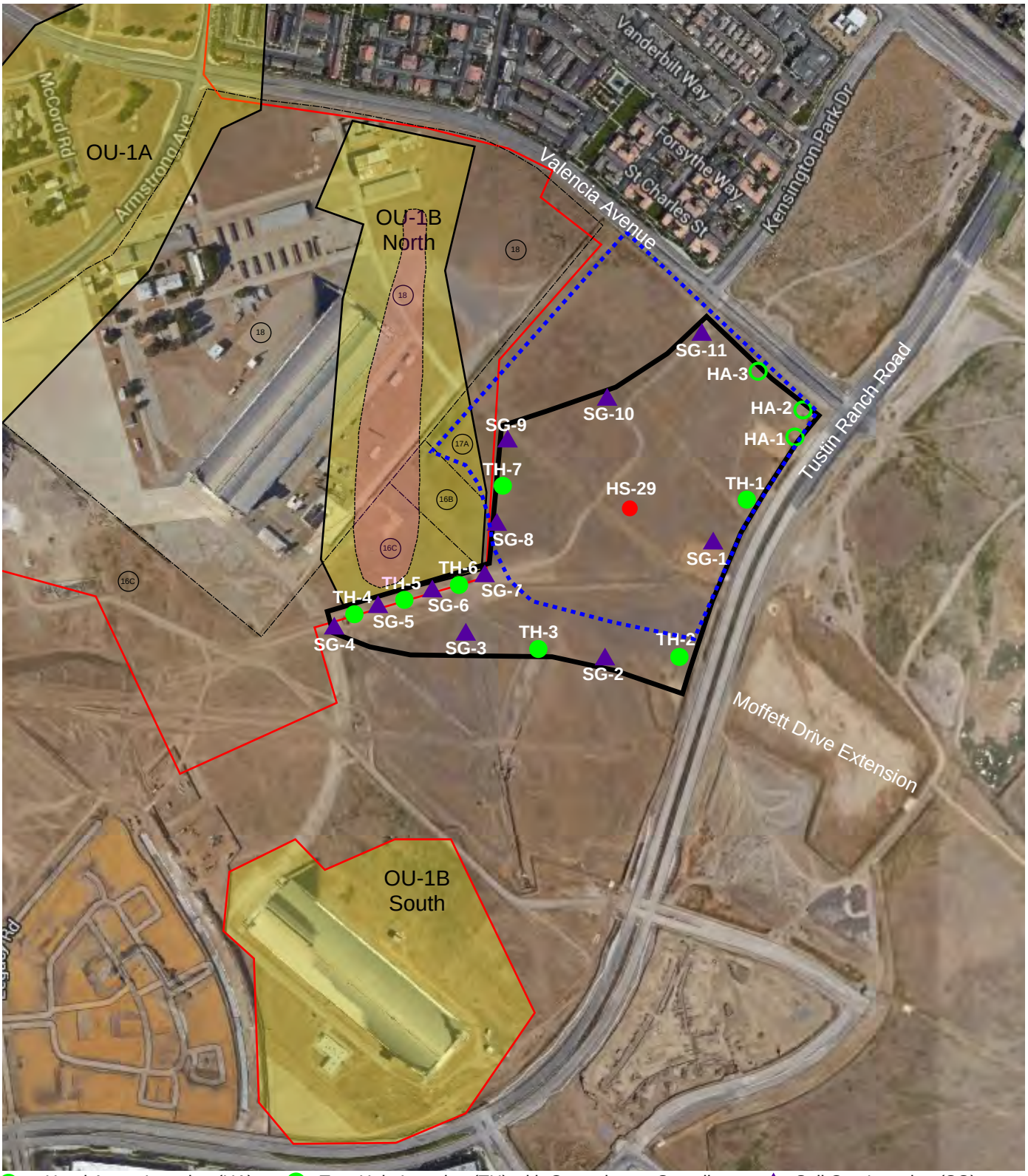
2006 Sample Location Map

Tustin MCAS - Legacy
City of Tustin Donation Parcel(s)
County of Orange ● Tustin, California

FIGURE

3a

Scale: 1" = 610'



Hand Auger Location (HA)
Test Hole Location (TH) with Groundwater Sampling
Soil Gas Location (SG)
New Proposed Boundary
Areas Requiring Institutional Controls - Groundwater
TCE in Groundwater (2013)
Former Proposed Boundary
Areas Requiring Institutional Controls - Vapor Intrusion

ADVANCED ENVIRONMENTAL CONCEPTS INC

220 East Truxtun Avenue
Bakersfield, California 93305
(661) 395-1646

2015 Sample Location Map

Tustin MCAS - Legacy
City of Tustin Donation Parcel(s)
County of Orange • Tustin, California

FIGURE

3b



Figure 5.
Estimated Lateral Extent of PFOA/PFOS/PFBS Concentrations Exceeding DoD Groundwater Screening Levels in the First Water-Bearing Zone
Work Plan
Groundwater Flow and Transport Modeling
Former Marine Corps Air Station (MCAS) El Toro, Irvine, California and Former MCAS Tustin, Tustin, California

APPENDIX D

SUBJECT PROPERTY PHOTOGRAPHS



Photo No.1 – View of the western portion of the Subject Property. View looking northeast.



Photo No.2 – View of Legacy Road located at the southern boundary of the Subject Property. View looking northeast.



Photo No.3 – View of the central area of the Subject Property.



Photo No.4 – Legacy Magnet Academy campus located south of the Subject Property directly across Legacy Road.

Inspection Date: 3-24-25

	
Photo No.5 – View of the western boundary of the Subject Property. View looking north.	Photo No.6 – Vacant military base located adjacent to the western boundary of the Subject Property.
	
Photo No.7 – View of the central area of the Subject Property. View looking northeast.	Photo No.8 – View of the northern portion of the Subject Property. View looking southwest.

Inspection Date: 3-24-25

	
Photo No.9 – Valencia Avenue located at the northern boundary of the Subject Property.	Photo No.10 – Multi-family residential development located north of the Subject Property across Valencia Avenue.
	
Photo No.11 – Commercial development located northeast of the Subject Property at the intersection of Valencia Avenue and Legacy Road	Photo No.12 – View of the central area of the Subject Property. View looking southwest.

Inspection Date: 3-24-25

APPENDIX E

PROPERTY OWNER QUESTIONNAIRE

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

Subject Property Owner Questionnaire

Padre Associates, Inc. (Padre) on behalf of **Tustin Unified School District and PlaceWorks** is requesting the completion of the following questionnaire. The purpose of the questionnaire is to identify past and current use(s) of the Subject Property. Please answer the following questions to the best of your knowledge. If you need more space, please use a separate sheet(s) of paper.

Subject Property: The Subject Property is a vacant lot, located within the former MCAS Tustin Base, at the northwest intersection of Valencia Ave and Legacy Rd in Tustin, Orange County, California. A Site Map is attached.

1. Current Property Owner: Tustin Unified School District

   Mailing Address: 300 South C Street, Tustin, CA 92780

   Contact: Tom Rizzuti Email/Phone No.: trizzuti@tustin.k12.ca.us (949) 293-4850

2. Date of Ownership: 10/26/2017

3. Previous property owner/date of ownership: City of Tustin 5/13/2002

4. Current Property Use(s): Vacant

5. Historic Property Use: See attached Preliminary Endangerment Assessment Report dated December 30, 2015 (PEA)

6. Are there any building structures located onsite and/or historic building structures (i.e., removed)? Please provide building use and date of construction: See attached PEA

7. Are there any existing environmental reports for the Subject Property: PEA is attached. Supplemental Report dated 3/28/16 also attached

8. Is the Subject Property connected to City water and sewer; or private well and septic system: To be connected to water + sewer.

9. Are there any environmental permits (i.e., air emissions, wastewater discharge, etc.) for the Subject Property: will be required

10. Are there any existing or former underground or aboveground petroleum storage tanks located onsite: See attached PEA.

11. Are chemicals used and/or stored onsite (If yes, please list chemicals and quantities used per year): See attached PEA

12. Are waste chemicals recycled, treated and/or disposed of onsite (If yes, please list chemicals and quantities used per year): See attached PEA

13. Have there been any chemical spills and/or incidents located onsite: None under District ownership. See attached PEA.

14. List past and present pesticide/herbicide use (List chemicals/year): See attached PEA

15. Are there any existing or former landfills and/or burn pits located onsite: See attached PEA

16. Are there any existing or former pits, ponds, or lagoons in connection with waste treatment or waste disposal located onsite: See attached PEA

17. Has fill material (soil) been imported to the property (date, volume, borrow source): Spoils from other District sites have been brought to the property

18. Are you aware of any environmental incidents associated with adjacent or nearby properties: Tustin Hangar Fire - November 2023

COMPLETED BY:

Signature: Tom Rizzuti Date: 3/24/25

Print Name: Tom Rizzuti

Representing: Tustin Unified School District

Please email completed questionnaire to: Alan J. Klein, Senior Environmental Scientist
Padre Associates, Inc.
aklein@padreinc.com



padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (11/23)

0 300
FEET

TUSTIN USD
NEIGHBORHOOD D
MCAS TUSTIN BASE

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0091	1/16/25	AC	AJK

PLATE 2

SITE MAP

APPENDIX F

EDR RADIUS MAP REPORT

Tustin USD - District Office and Outdoor Area
NW of Valencia Ave and Legacy Rd
Tustin, CA 92782

Inquiry Number: 7936069.2s
March 24, 2025

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	354
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-6
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NW OF VALENCIA AVE AND LEGACY RD
TUSTIN, CA 92782

COORDINATES

Latitude (North):	33.7109620 - 33° 42' 39.46''
Longitude (West):	117.8207300 - 117° 49' 14.62''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	423948.9
UTM Y (Meters):	3730217.5
Elevation:	59 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50006231 TUSTIN, CA
Version Date:	2022

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200424
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NW OF VALENCIA AVE AND LEGACY RD
TUSTIN, CA 92782

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	TUSD AREA 11	SOUTHWEST OF VALENCI	NPDES, CIWQS	Higher	1 ft.
2	TUSTIN FIRE STATION	15011 KENSINGTON PAR	CERS TANKS, CIWQS, CERS	Higher	120, 0.023, ENE
3	COVENTRY COURT LUXUR	16000 CAMBRIDGE WAY	RCRA NonGen / NLR, E MANIFEST	Higher	361, 0.068, NE
A4	TUSTIN MARINE CORPS	USMC AIR STA	ENVIROSTOR, FINDS, HWP	Lower	596, 0.113, SW
5	KENNAN HERKIMER	15204 CAMDEN WAY	RCRA NonGen / NLR, E MANIFEST	Higher	628, 0.119, North
A6	TUSTIN MCAS - US MAR		CERS TANKS	Lower	787, 0.149, SW
A7	TUSTIN MCAS - USMCAS		CERS TANKS	Lower	787, 0.149, SW
8	CCSA TH	1422-1428 GEORGIA ST	RCRA NonGen / NLR, E MANIFEST	Higher	859, 0.163, NNE
9	CVS PHARMACY #10806	15180 KENSINGTON PAR	CERS HAZ WASTE, HWTS, HAZNET	Higher	944, 0.179, NE
B10	TUSTIN MCAS - USMCAS		CERS TANKS	Higher	1050, 0.199, WNW
B11	TUSTIN MCAS - USMCAS	USMCAS TUSTIN BUILDI	UST	Higher	1050, 0.199, WNW
C12	TUSTIN MCAS - USMCAS	USMCAS TUSTIN	UST	Higher	1083, 0.205, West
C13	TUSTIN MCAS - USMCAS		CERS TANKS	Higher	1083, 0.205, West
D14	TUSTIN MCAS - US MAR		CERS TANKS	Higher	1137, 0.215, NNW
D15	TUSTIN MCAS - US MAR	USMCAS TUSTIN-FUEL F	UST	Higher	1138, 0.216, NNW
D16	MERIWETHER	15229 COLUMBUS SQUAR	RCRA-LQG	Higher	1159, 0.220, NNW
E17	TUSTIN MCAS		PFAS FEDERAL SITES	Lower	1161, 0.220, SW
D18	DANIEL LEE	1405 MONTGOMERY ST.	RCRA NonGen / NLR, E MANIFEST	Higher	1186, 0.225, NNW
E19	TUSTIN MCAS - USMCAS	USMCAS TUSTIN BLDG 1	UST	Lower	1189, 0.225, SW
E20	TUSTIN MCAS - USMCAS		CERS TANKS	Lower	1189, 0.225, SW
F21	RADAR BOMB SCORING		FUDS	Higher	1621, 0.307, NE
F22	TUSTIN RAD BOMB/SCOR		ENVIROSTOR	Higher	1632, 0.309, NE
23	TUSTIN PARCEL A	2300 BLOCK EDINGER A	ENVIROSTOR	Higher	1826, 0.346, NE
G24	MCAS SANTA ANA		FUDS	Lower	1837, 0.348, SSW
G25	MCAS SANTA ANA		ENVIROSTOR	Lower	1839, 0.348, SSW
26	CHEVRON #9-0550	2051 EDINGER AVE	LUST	Higher	1864, 0.353, NNE
27	TUSTIN MCAS - US MAR	SEVERYNS ROAD	DEED, MCS	Higher	2033, 0.385, NW
28	TUSTIN NG RIFLE RANG	APPLE TREE DR./COCO	RESPONSE, ENVIROSTOR	Higher	2079, 0.394, NNE
H29	NAVAL AIR STATION		ENVIROSTOR	Lower	2371, 0.449, SW
H30	NAVAL AIR STATION		FUDS	Lower	2387, 0.452, SW
31	TUSTIN MARINE CORPS	USMC AIR STA	SEMS	Lower	2578, 0.488, SSW
I32	TUSTIN LEGACY COMMUN	MCAS TUSTIN	ENVIROSTOR, VCP	Higher	3438, 0.651, WNW
I33	TUSTIN MARINE CORPS	NEWPORT FREEWAY AT E	RESPONSE, ENVIROSTOR, HIST Cal-Sites, DEED, PFAS,...	Higher	3508, 0.664, WNW
34	SUPERIOR PROCESSING	1582 PARKWAY LOOP #H	ENVIROSTOR	Higher	3603, 0.682, NW
35	TUSTIN AIR FAC. SCHO	VALENCIA AVENUE/RED	ENVIROSTOR, SCH	Higher	3930, 0.744, WNW
36	RED HILL/VALENCIA K-	RED HILL AVENUE/SANT	ENVIROSTOR, SCH	Higher	3933, 0.745, NW
37	TUSTIN AIR FAC SCH.	ARMSTRONG AVENUE/CAR	ENVIROSTOR, SCH	Lower	4114, 0.779, WSW
J38	MCKESSON CHEMICAL	1302 INDUSTRIAL DRIV	ENVIROSTOR	Higher	4737, 0.897, NW
J39	MCKESSON CHEM CO	1302 INDUSTRIAL DR	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG,...	Higher	4737, 0.897, NW

MAPPED SITES SUMMARY

Target Property Address:
NW OF VALENCIA AVE AND LEGACY RD
TUSTIN, CA 92782

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	LAIDLAW TRANSIT	16281 CONSTRUCTION C	ENVIROSTOR, LUST, Cortese, WDS	Lower	4776, 0.905, South
41	USARC SANTA ANNA		ENVIROSTOR	Lower	5204, 0.986, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---------- Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST ---------- SWEEPS UST Listing
HIST UST ---------- Hazardous Substance Storage Container Database
CA FID UST ---------- Facility Inventory Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
Orange Co. Ind Site	List of Industrial Site Cleanups
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
MINES MRDS	Mineral Resources Data System
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information

PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
UST FINDER RELEASE	UST Finder Releases Database
UST FINDER	UST Finder Database
PFAS	PFAS Investigation Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HIST CORTESE	Hazardous Waste & Substance Site List
HWT	Registered Hazardous Waste Transporter Database
HWTS	Hazardous Waste Tracking System
HAZNET	Facility and Manifest Data
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
HAZMAT	Hazardous Material Facilities
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 12/19/2024 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MARINE CORPS Site ID: 0902800 EPA Id: CA9170090022	USMC AIR STA	SSW 1/4 - 1/2 (0.488 mi.)	31	128

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 02/17/2025 has revealed that there is 1

CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MCKESSON CHEM CO	***1302 INDUSTRIAL DR***	***NW 1/2 - 1 (0.897 mi.)***	***J39***	***330***
EPA ID:: CAD061601019				

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/17/2025 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MERIWETHER	15229 COLUMBUS SQUAR	NNW 1/8 - 1/4 (0.220 mi.)	D16	108
EPA ID:: CAC002634389				

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there are 2 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN NG RIFLE RANG	***APPLE TREE DR./COCO***	***NNE 1/4 - 1/2 (0.394 mi.)***	***28***	***123***
Database: RESPONSE, Date of Government Version: 10/21/2024				
Status: No Further Action				
Facility Id: 80000488				
TUSTIN MARINE CORPS	***NEWPORT FREEWAY AT E***	***WNW 1/2 - 1 (0.664 mi.)***	***I33***	***142***
Database: RESPONSE, Date of Government Version: 10/21/2024				
AWP Facility Id: 30970002				
Status: Active				
Facility Id: 30970002				

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which

there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/21/2024 has revealed that there are 15 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN RAD BOMB/SCOR Facility Id: 80000427 Status: Inactive - Needs Evaluation		NE 1/4 - 1/2 (0.309 mi.)	F22	117
TUSTIN PARCEL A Facility Id: 30970005 Status: No Further Action	2300 BLOCK EDINGER A	NE 1/4 - 1/2 (0.346 mi.)	23	118
TUSTIN NG RIFLE RANG Facility Id: 80000488 Status: No Further Action	***APPLE TREE DR./COCO***	***NNE 1/4 - 1/2 (0.394 mi.)***	***28***	***123***
TUSTIN LEGACY COMMUN Facility Id: 80001203 Status: No Further Action	***MCAS TUSTIN***	***WNW 1/2 - 1 (0.651 mi.)***	***I32***	***132***
TUSTIN MARINE CORPS Facility Id: 30970002 Status: Active	***NEWPORT FREEWAY AT E***	***WNW 1/2 - 1 (0.664 mi.)***	***I33***	***142***
SUPERIOR PROCESSING Facility Id: 71003341 Status: Inactive - Needs Evaluation	1582 PARKWAY LOOP #H	NW 1/2 - 1 (0.682 mi.)	34	317
TUSTIN AIR FAC. SCHO Facility Id: 30970011 Status: Inactive - Needs Evaluation	***VALENCIA AVENUE/RED***	***WNW 1/2 - 1 (0.744 mi.)***	***35***	***318***
RED HILL/VALENCIA K- Facility Id: 30970014 Status: No Further Action	***RED HILL AVENUE/SANT***	***NW 1/2 - 1 (0.745 mi.)***	***36***	***321***
MCKESSON CHEMICAL Facility Id: 80001441 Facility Id: 30280149 Status: No Action Required Status: Refer: RCRA	1302 INDUSTRIAL DRIV	NW 1/2 - 1 (0.897 mi.)	J38	327

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MARINE CORPS Facility Id: 80001281 Status: Refer: SMBRP	***USMC AIR STA***	***SW 0 - 1/8 (0.113 mi.)***	***A4***	***20***
MCAS SANTA ANA Facility Id: 80000547 Status: Inactive - Needs Evaluation		SSW 1/4 - 1/2 (0.348 mi.)	G25	119
NAVAL AIR STATION		SW 1/4 - 1/2 (0.449 mi.)	H29	125

Facility Id: 80000828
Status: Inactive - Needs Evaluation

TUSTIN AIR FAC SCH.	***ARMSTRONG AVENUE/CAR***	***WSW 1/2 - 1 (0.779 mi.)***	***37***	***324***
Facility Id: 30970012 Status: Inactive - Needs Evaluation				
LAIDLAW TRANSIT	***16281 CONSTRUCTION C***	***S 1/2 - 1 (0.905 mi.)***	***40***	***348***
Facility Id: 30470002 Status: Refer: 1248 Local Agency				
USARC SANTA ANNA		SW 1/2 - 1 (0.986 mi.)	41	352
Facility Id: 80000499 Status: Inactive - Needs Evaluation				

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON #9-0550	2051 EDINGER AVE	NNE 1/4 - 1/2 (0.353 mi.)	26	120
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Remedial action (cleanup) Underway Global ID: T0605900393				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MCAS - USMCAS	USMCAS TUSTIN BUILDI	WNW 1/8 - 1/4 (0.199 mi.)	B11	104
Database: MILITARY UST SITES, Date of Government Version: 02/24/2025				
TUSTIN MCAS - USMCAS	USMCAS TUSTIN	W 1/8 - 1/4 (0.205 mi.)	C12	105
Database: MILITARY UST SITES, Date of Government Version: 02/24/2025				
TUSTIN MCAS - US MAR	USMCAS TUSTIN-FUEL F	NNW 1/8 - 1/4 (0.216 mi.)	D15	107
Database: MILITARY UST SITES, Date of Government Version: 02/24/2025				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MCAS - USMCAS	USMCAS TUSTIN BLDG 1	SW 1/8 - 1/4 (0.225 mi.)	E19	115
Database: MILITARY UST SITES, Date of Government Version: 02/24/2025				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MARINE CORPS	***NEWPORT FREEWAY AT E***	***WNW 1/2 - 1 (0.664 mi.)***	***I33***	***142***

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/15/2024 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #10806	***15180 KENSINGTON PAR***	***NE 1/8 - 1/4 (0.179 mi.)***	***9***	***39***

Local Lists of Registered Storage Tanks

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 10/15/2024 has revealed that there are 7 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN FIRE STATION	***15011 KENSINGTON PAR***	***ENE 0 - 1/8 (0.023 mi.)***	***2***	***10***
TUSTIN MCAS - USMCAS		WNW 1/8 - 1/4 (0.199 mi.)	B10	103
TUSTIN MCAS - USMCAS		W 1/8 - 1/4 (0.205 mi.)	C13	106
TUSTIN MCAS - US MAR		NNW 1/8 - 1/4 (0.215 mi.)	D14	106

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MCAS - US MAR		SW 1/8 - 1/4 (0.149 mi.)	A6	34
TUSTIN MCAS - USMCAS		SW 1/8 - 1/4 (0.149 mi.)	A7	34
TUSTIN MCAS - USMCAS		SW 1/8 - 1/4 (0.225 mi.)	E20	116

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 11/20/2024 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MCAS - US MAR Status: OPEN - REMEDIATION Envirostor ID: DOD100397200	***SEVERYNS ROAD***	***NW 1/4 - 1/2 (0.385 mi.)***	***27***	***122***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/17/2025 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COVENTRY COURT LUXUR EPA ID:: CAC003297579 EPA ID:: CAC003283113	***16000 CAMBRIDGE WAY***	***NE 0 - 1/8 (0.068 mi.)***	***3***	***14***
KENNAN HERKIMER EPA ID:: CAC003283942	***15204 CAMDEN WAY***	***N 0 - 1/8 (0.119 mi.)***	***5***	***30***
CCSA TH EPA ID:: CAC003275755	***1422-1428 GEORGIA ST***	***NNE 1/8 - 1/4 (0.163 mi.)***	***8***	***35***
DANIEL LEE EPA ID:: CAC003268813	***1405 MONTGOMERY ST.***	***NNW 1/8 - 1/4 (0.225 mi.)***	***D18***	***111***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 10/01/2024 has revealed that there are 3 FUDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RADAR BOMB SCORING		NE 1/4 - 1/2 (0.307 mi.)	F21	116

Lower Elevation	Address	Direction / Distance	Map ID	Page
MCAS SANTA ANA		SSW 1/4 - 1/2 (0.348 mi.)	G24	119
NAVAL AIR STATION		SW 1/4 - 1/2 (0.452 mi.)	H30	127

PFAS FEDERAL SITES: Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

A review of the PFAS FEDERAL SITES list, as provided by EDR, and dated 12/30/2024 has revealed that there is 1 PFAS FEDERAL SITES site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MCAS		SW 1/8 - 1/4 (0.220 mi.)	E17	110

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 02/17/2025 has revealed that there are 4 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COVENTRY COURT LUXUR	***16000 CAMBRIDGE WAY***	***NE 0 - 1/8 (0.068 mi.)***	***3***	***14***
KENNAN HERKIMER	***15204 CAMDEN WAY***	***N 0 - 1/8 (0.119 mi.)***	***5***	***30***
CCSA TH	***1422-1428 GEORGIA ST***	***NNE 1/8 - 1/4 (0.163 mi.)***	***8***	***35***
DANIEL LEE	***1405 MONTGOMERY ST.***	***NNW 1/8 - 1/4 (0.225 mi.)***	***D18***	***111***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 11/08/2024 has revealed that there are 2 HWP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MCKESSON CHEM CO	***1302 INDUSTRIAL DR***	***NW 1/2 - 1 (0.897 mi.)***	***J39***	***330***
EPA ID: CAD061601019				
Cleanup Status: CLOSED				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MARINE CORPS	***USMC AIR STA***	***SW 0 - 1/8 (0.113 mi.)***	***A4***	***20***
EPA ID: CA9170090022				
Cleanup Status: CLOSED				

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 11/04/2024 has revealed that there is 1 NPDES site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSD AREA 11	***SOUTHWEST OF VALENCI***	***0 - 1/8 (0.000 mi.)***	***1***	***9***

EXECUTIVE SUMMARY

CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

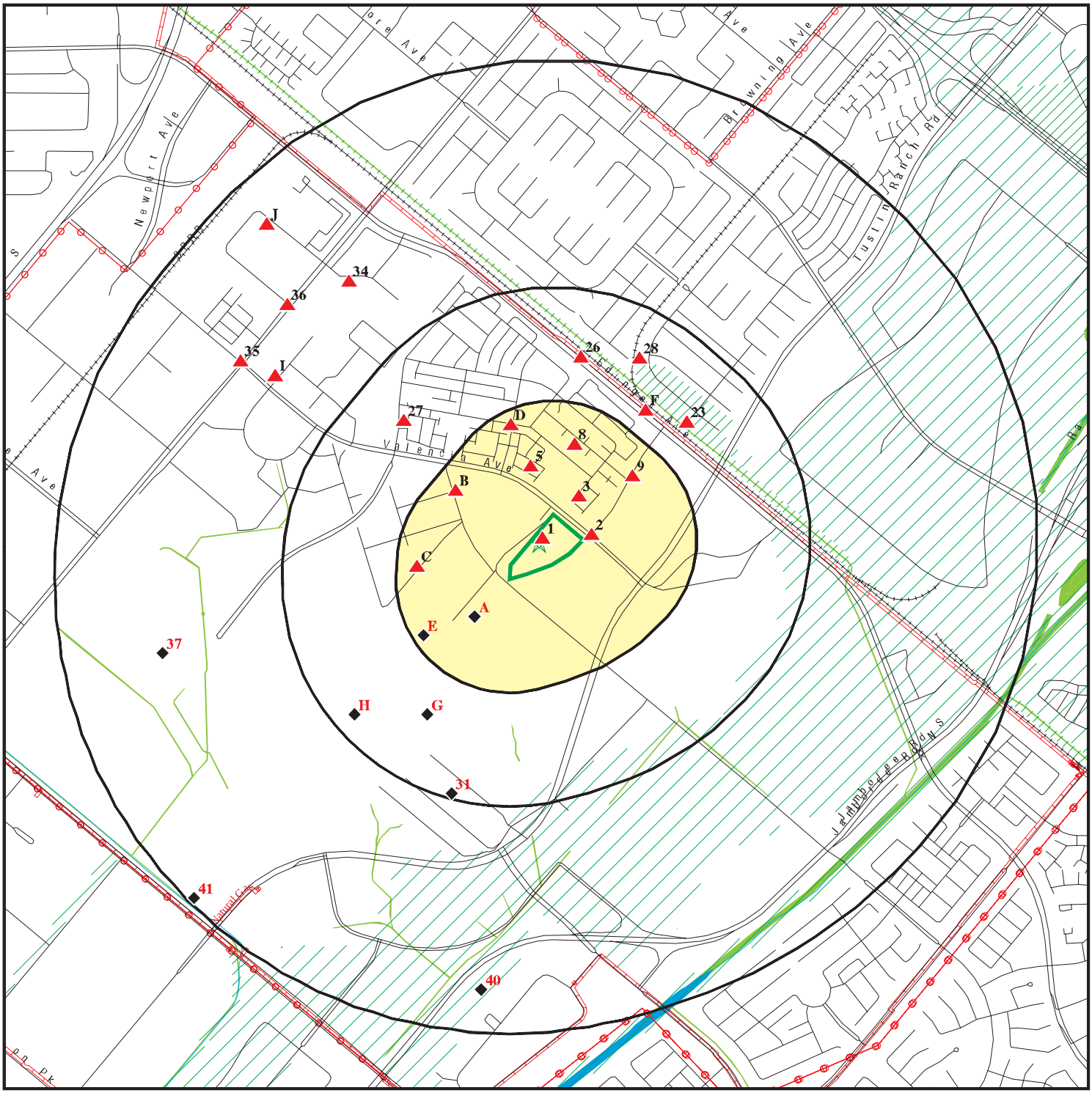
A review of the CIWQS list, as provided by EDR, and dated 11/20/2024 has revealed that there is 1 CIWQS site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSD AREA 11	*SOUTHWEST OF VALENCI*	*0 - 1/8 (0.000 mi.)*	*1*	*9*

Due to poor or inadequate address information, the following sites were not mapped. Count: 13 records.

Site Name	Database(s)
	CDL
	CDL
TUSTIN BLIMP HANGAR FIRE	SEMS
HOLLY W. DAVIDSON DUMP #1	SWF/LF
HOLLY E. DAVIDSON DUMP#2	SWF/LF
ANAHEIM CITY DUMP #7	SWF/LF
LA PALMA DUMP	SWF/LF
BREA CITY DUMP #1	SWF/LF
ORANGE CITY DUMP #10	SWF/LF
ORANGE CITY DUMP #2 SANTA ANA RIVE	SWF/LF
ORANGE CITY DUMP #3	SWF/LF
TUSTIN MCAS - TUSTIN LEGACY PARK,	UST
STONEGATE DEVELOPMENT	CPS-SLIC, Orange Co. Ind Site

OVERVIEW MAP - 7936069.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

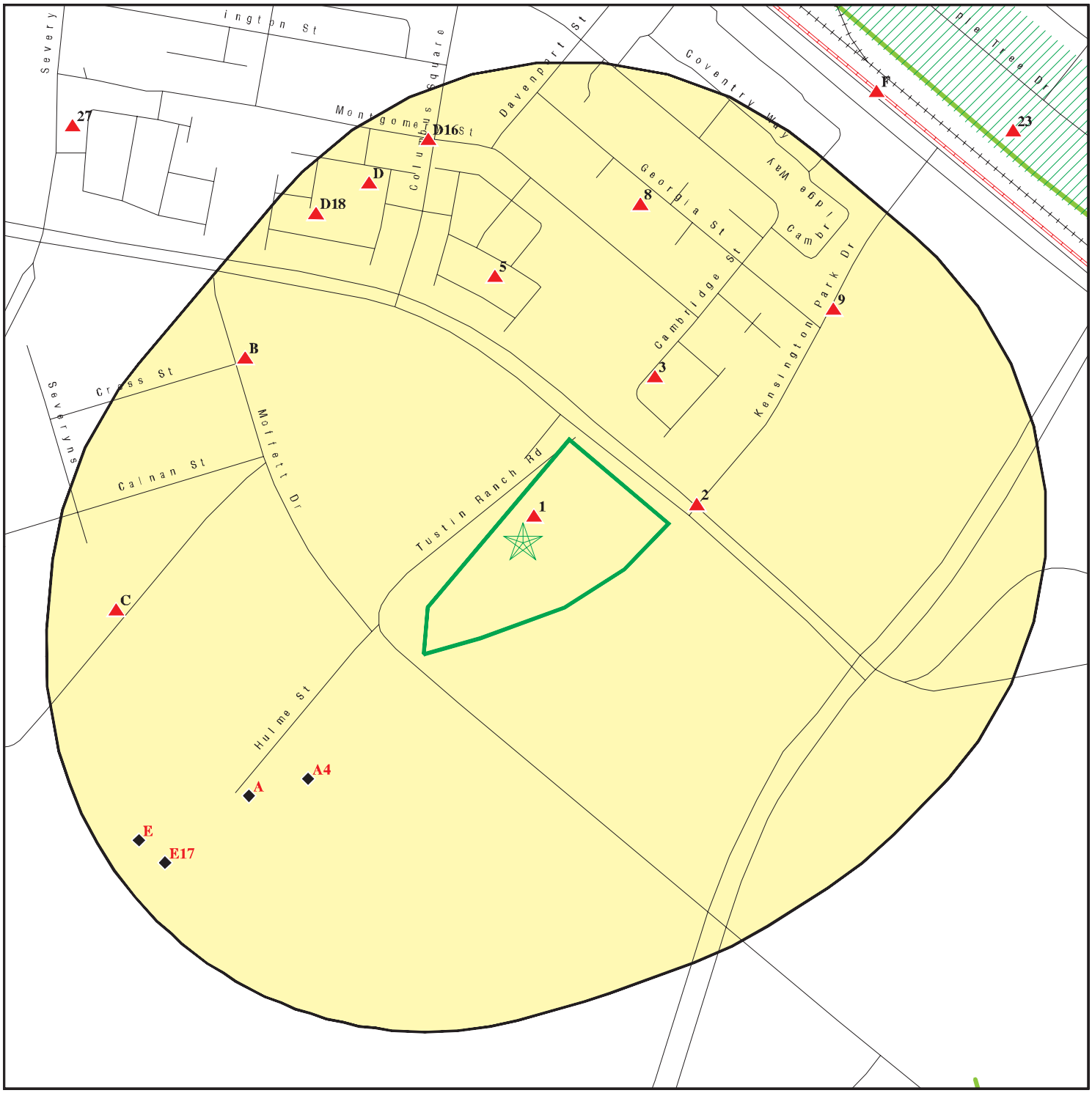
N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Tustin USD - District Office and Outdoor Area	CLIENT:	Padre Associates, Inc
ADDRESS:	NW of Valencia Ave and Legacy Rd Tustin CA 92782	CONTACT:	Alan Klein
		INQUIRY #:	7936069.2s
LAT/LONG:	33.710962 / 117.82073	DATE:	March 24, 2025 7:43 pm

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DETAIL MAP - 7936069.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Tustin USD - District Office and Outdoor Area	CLIENT:	Padre Associates, Inc
ADDRESS:	NW of Valencia Ave and Legacy Rd Tustin CA 92782	CONTACT:	Alan Klein
LAT/LONG:	33.710962 / 117.82073	INQUIRY #:	7936069.2s
		DATE:	March 24, 2025 7:44 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	1	NR	1
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	1	1	NR	2
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		1	0	5	9	NR	15
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	4	NR	NR	NR	4
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	1	NR	NR	NR	1
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	6	NR	NR	NR	7
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	1	NR	NR	1
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
Orange Co. Ind Site	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	2	NR	NR	NR	4
FUDS	1.000		0	0	3	0	NR	3
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS FEDERAL SITES	0.250		0	1	NR	NR	NR	1
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	0.250		2	2	NR	NR	NR	4
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		1	0	0	1	NR	2
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		1	NR	NR	NR	NR	1
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		1	NR	NR	NR	NR	1
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	9	17	12	13	0	51

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **TUSD AREA 11** **NPDES** **S119087929**
SOUTHWEST OF VALENCIA AVENUE & TUSTIN RANCH ROAD **CIWQS** **N/A**
< 1/8 **TUSTIN, CA 92780**
1 ft.

Relative: Higher

Actual: 60 ft.

NPDES:

Name:	TUSD AREA 11
Address:	SOUTHWEST OF VALENCIA AVENUE & TUSTIN RANCH ROAD
City,State,Zip:	TUSTIN, CA 92780
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	Not reported
Regulatory Measure Type:	Region 8 MS4 CIPs
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/04/2017
Operator Name:	City of Tustin
Operator Address:	300 Centennial Way
Operator City:	Tustin
Operator State:	California
Operator Zip:	92780

CIWQS:

Name:	Tusd Area 11
Address:	SOUTHWEST OF VALENCIA AVENUE & TUSTIN RANCH ROAD
City,State,Zip:	TUSTIN, CA 92780
Agency:	City of Tustin
Agency Address:	300 Centennial Way, Tustin, CA 92780
Place/Project Type:	Facility
SIC/NAICS:	Not reported
Region:	8
Program:	MNSTW1
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Region 8 MS4 CIPs
Order Number:	R8-2009-0030
WDID:	Not reported
NPDES Number:	CAS618030
Adoption Date:	Not reported
Effective Date:	10/04/2016
Termination Date:	10/04/2017
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported

TUSD AREA 11 (Continued) **S119087929**

Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.7112
Longitude: -117.8206

---

2 **TUSTIN FIRE STATION NO 37** **CERS TANKS** **S119087931**
ENE **15011 KENSINGTON PARK DRIVE** **CIWQS** **N/A**
< 1/8 **TUSTIN, CA 92780** **CERS**
0.023 mi.
120 ft.

Relative:
Higher

Actual:
60 ft.

CERS TANKS:
Name: ORANGE COUNTY FIRE AUTHORITY STATION #37 TUSTIN
Address: 15011 KENSINGTON PARK DRIVE
City,State,Zip: TUSTIN, CA 92780
Site ID: 419778
CERS ID: 10689622
CERS Description: Aboveground Petroleum Storage

CIWQS:
Name: Tustin Fire Station No 37
Address: 15011 KENSINGTON PARK DRIVE
City,State,Zip: TUSTIN, CA 92780
Agency: City of Tustin
Agency Address: 300 Centennial Way, Tustin, CA 92780
Place/Project Type: Facility
SIC/NAICS: Not reported
Region: 8
Program: MNSTW1
Regulatory Measure Status: Terminated
Regulatory Measure Type: Region 8 MS4 CIPs
Order Number: R8-2009-0030
WDID: Not reported
NPDES Number: CAS618030
Adoption Date: Not reported
Effective Date: 02/11/2013
Termination Date: 03/12/2014
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.714461
Longitude: -117.816753

CERS:
Name: ORANGE COUNTY FIRE AUTHORITY STATION #37 TUSTIN
Address: 15011 KENSINGTON PARK DRIVE
City,State,Zip: TUSTIN, CA 92780
Site ID: 419778
CERS ID: 10689622
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Other/Unknown

TUSTIN FIRE STATION NO 37 (Continued) **S119087931**

Eval Date: 04-03-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted APSA submittal in CERS. Facility has complied with the APSA tank facility statement requirement by indicating information is provided in the hazardous materials inventory.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: OPENING COMMENTS On site to conduct a Hazardous Materials Disclosure and Business Emergency Plan (HMBEP) inspection. Met this date with Jeff Higbee, OCFA Risk Management, who granted consent to enter and inspect the facility. CERS ID 10689625 The following was verified this date: - Chemical Inventory | Diesel Generator and Above Ground Storage Tank 3,161 Gallons - Site Map - Emergency Plan CERS Submission made on 3-8-17 and ACCEPTED. Training records were provided to OC CUPA. Training is conducted annually.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: OPENING COMMENTS On site to conduct an Above Ground Petroleum Storage Tank (APST) inspection. Met this date with Jeff Higbee, OCFA Risk Management, who granted consent to enter and inspect the facility. This site has the following storage containers: - Diesel Fuel Tank 37A | 2,000 DW Gallons - Emergency Generator Fuel Tank 37B | 1,161 Gallons The Diesel Tank was observed with adequate secondary containment. The Generator is equipped with secondary containment. Spill Preventions Countermeasures and Control (SPCC) Plan - The SPCC Plan was maintained on-site. Monthly inspections as indicated in the plan are conducted by Risk Management Jeff Higbee. January through April were available for review electronically. The SPCC Plan is adequate and up to date. All functions tested. Training is conducted on SPCC. Training records available from OCFA electronically. Business Emergency Plan reviewed and available on-site.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine aboveground storage tank inspection. Facility is regulated under the Aboveground Storage Tank Act (APSA). Facility has between 1,320 and 9,999 gallons of regulated petroleum products. Facility has the Following: 1) On site SPCC Prepared and implemented. This plan is dated August 2016. 2) Facility personnel conduct monthly

TUSTIN FIRE STATION NO 37 (Continued) **S119087931**

monitoring. Documentation of monitoring was available. 3) Appropriate secondary containment or diversionary structures are present.

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous materials inspection. Facility has disclosed diesel fuel. There were no other materials observed on site meeting minimum disclosure thresholds. Site map was reviewed and appears accurate.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Facility inspection conducted with Jeffrey Higbee, EHS specialist, for the site. Observed the following disclosable materials: - 1,161 gal emergency generator tank - 2,000 gal Diesel AST Verified Hazardous Material Business Plan (HMBP) components submitted in the California Environmental Reporting System (CERS). Training records were reviewed. HMBP documents can be submitted via CERS at http://cers.calepa.ca.gov/. Emailed a copy of this report to jeffreyhigbee@ocfa.org.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-10-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Updating record to attach historical copy of response to email from Jeff Higbee requesting information as to the requirement for annual APSA submittal: From: Wales, Lisa Sent: Monday, March 18, 2019 9:26 AM To: 'Higbee, Jeffrey' <jeffreyhigbee@ocfa.org> Cc: Hendron, James <JHendron@ochca.com>; 'jonathanbredehoft@ocfa.org' <jonathanbredehoft@ocfa.org> Subject: RE: CERS NOT ACCEPTED - Station 49 Hi Jeff, I m not sure what you are not understanding. The email that I sent on Friday listed the section that requires the submittal. You have listed the second section, Section (a)(2), which indicates that you may use your HMBEP to satisfy the information required in the tank facility statement, but under section (a)(1), it states that you must file the tank facility statement, i.e. submitting the APSA element. Section (a)(2) allows you to use the provided elsewhere in CERS option. The three sections that you submitted satisfy the annual HMBEP notification and can also [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

TUSTIN FIRE STATION NO 37 (Continued) **S119087931**

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Tyler Putnam
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1 Fire Authority Road
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92602
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Orange County Fire Authority
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 573-6000,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Tyler Putnam
Entity Title:	Not reported
Affiliation Address:	1 Fire Authority Road
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92602
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406,

Affiliation Type Desc:	Legal Owner
Entity Name:	Orange County Fire Authority
Entity Title:	Not reported
Affiliation Address:	1 Fire Authority Road
Affiliation City:	Irvine
Affiliation State:	CA

TUSTIN FIRE STATION NO 37 (Continued) **S119087931**

Affiliation Country:	United States
Affiliation Zip:	92602
Affiliation Phone:	(714) 573-6831,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Orange County Fire Authority
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Tyler Putnam
Entity Title:	EHS Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

---

3 **COVENTRY COURT LUXURY SENIOR APARTMENTS** **RCRA NonGen / NLR** **1031055519**
NE **16000 CAMBRIDGE WAY** **E MANIFEST** **CAC003297579**
< 1/8 **TUSTIN, CA 92782**
0.068 mi.
361 ft.

Relative:
Higher

Actual:
62 ft.

RCRA Listings:

Date Form Received by Agency:	20241021
Handler Name:	Coventry Court Luxury Senior Apartments
Handler Address:	16000 Cambridge Way
Handler City,State,Zip:	TUSTIN, CA 92782
EPA ID:	CAC003297579
Contact Name:	MELANIE D'AVANZO
Contact Address:	16000 CAMBRIDGE WAY
Contact City,State,Zip:	TUSTIN, CA 92782
Contact Telephone:	714-389-1188
Contact Fax:	Not reported
Contact Email:	KMINUTOLI@ECTICORP.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported

COVENTRY COURT LUXURY SENIOR APARTMENTS (Continued) **1031055519**

Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20241104
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MELANIE D'AVANZO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	16000 CAMBRIDGE WAY
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-389-1188
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

COVENTRY COURT LUXURY SENIOR APARTMENTS (Continued) **1031055519**

Owner/Operator Name: MELANIE D'AVANZO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 16000 CAMBRIDGE WAY
Owner/Operator City,State,Zip: TUSTIN, CA 92782
Owner/Operator Telephone: 714-389-1188
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20240722
Handler Name: COVENTRY COURT LUXURY SENIOR APARTMENTS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20241021
Handler Name: COVENTRY COURT LUXURY SENIOR APARTMENTS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 019325316FLE
Last Updated Date: 20240805
Shipped Date: 20240723
Received Date: 20240725
Manifest Status: Signed

COVENTRY COURT LUXURY SENIOR APARTMENTS (Continued) **1031055519**

Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003297579
Generator Name:	Coventry Court Luxury Senior Apartments
Generator Location Street Number:	Not reported
Generator Location Street 1:	16000 CAMBRIDGE WAY
Generator Location Street 2:	Not reported
Generator Location City:	TUSTIN
Generator Location State:	CA
Generator Location Zip:	92782
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	16000 CAMBRIDGE WAY
Generator Mail Street 2:	Not reported
Generator Mail City:	TUSTIN
Generator Mail Zip:	92782
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019325316FLE
Last Updated Date:	20240805
Shipped Date:	20240723
Received Date:	20240725
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003297579
Generator Name:	Coventry Court Luxury Senior Apartments
Generator Location Street Number:	Not reported
Generator Location Street 1:	16000 CAMBRIDGE WAY
Generator Location Street 2:	Not reported
Generator Location City:	TUSTIN
Generator Location State:	CA
Generator Location Zip:	92782
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	16000 CAMBRIDGE WAY
Generator Mail Street 2:	Not reported
Generator Mail City:	TUSTIN
Generator Mail Zip:	92782
Generator Mail State:	CA
Generator Contact Company Name:	Not reported

COVENTRY COURT LUXURY SENIOR APARTMENTS (Continued) **1031055519**

Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019322200FLE
Last Updated Date:	20240729
Shipped Date:	20240701
Received Date:	20240703
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003283113
Generator Name:	Coventry Court Luxury Senior Apartments
Generator Location Street Number:	Not reported
Generator Location Street 1:	16000 CAMBRIDGE WAY
Generator Location Street 2:	Not reported
Generator Location City:	TUSTIN
Generator Location State:	CA
Generator Location Zip:	92782
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	16000 CAMBRIDGE WAY
Generator Mail Street 2:	Not reported
Generator Mail City:	TUSTIN
Generator Mail Zip:	92782
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

COVENTRY COURT LUXURY SENIOR APARTMENTS (Continued) **1031055519**

Manifest Tracking Number:	019322200FLE
Last Updated Date:	20240729
Shipped Date:	20240701
Received Date:	20240703
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003283113
Generator Name:	Coventry Court Luxury Senior Apartments
Generator Location Street Number:	Not reported
Generator Location Street 1:	16000 CAMBRIDGE WAY
Generator Location Street 2:	Not reported
Generator Location City:	TUSTIN
Generator Location State:	CA
Generator Location Zip:	92782
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	16000 CAMBRIDGE WAY
Generator Mail Street 2:	Not reported
Generator Mail City:	TUSTIN
Generator Mail Zip:	92782
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	019322200FLE
Transporter Line Number:	1
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Manifest Tracking Number:	019322200FLE
Transporter Line Number:	2
Transporter EPA ID:	CAR000302190
Transporter Name:	Wicked Transport

Waste Line:

Manifest Tracking Number:	019322200FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212

COVENTRY COURT LUXURY SENIOR APARTMENTS (Continued) **1031055519**

U.S. DOT Description:	R.Q. Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	CM
Container Type Description:	Metal boxes, cartons, cases (including roll offs)
Waste Quantity:	40
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	33.6
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	33.6
Waste Quantity, in Kilograms:	30476.208
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	30476.208
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

A4 **TUSTIN MARINE CORPS AIR STATION** **ENVIROSTOR** **1008152920**
SW **USMC AIR STA** **FINDS** **N/A**
< 1/8 **TUSTIN, CA 92780** **HWP**
0.113 mi.
596 ft. **Site 1 of 3 in cluster A**

Relative: **Lower**

Actual: **57 ft.**

ENVIROSTOR:

Name:	CARETAKER SITE OFFICE
Address:	USMC AIR STATION (HELICOPTER)
City,State,Zip:	TUSTIN, CA 927100000
Facility ID:	80001281
Status:	Refer: SMBRP
Status Date:	01/01/2008
Site Code:	400091
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	MBR
Program Manager:	Michelle Micucci
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.70867
Longitude: -117.8231
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA9170090022
Alias Type: EPA Identification Number
Alias Name: 110018968287
Alias Type: EPA (FRS #)
Alias Name: 400091
Alias Type: Project Code (Site Code)
Alias Name: 80001281
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 01/01/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 05/31/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 09/20/2016
Comments: Final Remedy Construction Complete Report for MCAS Tustin signed 9/20/2016

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 02/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Ready for Anticipated Use
Completed Date: 09/24/2021
Comments: Ready for Anticipated Use GPRA EI met

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/02/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 05/31/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 07/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 09/08/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 04/30/1997
Comments: Confirmed per RFA binder

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:
Registry ID: 110071102230

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
THE SUPERFUND ENTERPRISE MANAGEMENT SYSTEM (SEMS) INTEGRATES MULTIPLE

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

LEGACY SYSTEMS INTO A COMPREHENSIVE TRACKING AND REPORTING TOOL, PROVIDING DATA ON THE INVENTORY OF ACTIVE AND ARCHIVED HAZARDOUS WASTE SITES EVALUATED BY THE SUPERFUND PROGRAM. IT CONTAINS SITES THAT ARE EITHER PROPOSED TO BE OR ARE ON THE NATIONAL PRIORITIES LIST (NPL) AS WELL AS SITES THAT ARE IN THE SCREENING AND ASSESSMENT PHASE FOR POSSIBLE INCLUSION ON THE NPL.

Registry ID: 110018968287

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

California's Hazardous Waste Tracking System Data Mart (HWTS-DATAMART) provides information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

Registry ID: 110070738439

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

HWP:

EPA ID:	CA9170090022
Name:	USMC AIR STATION TUSTIN
Address:	USMC AIR STATION (HELICOPTER)
Cleanup Status:	CLOSED
Latitude:	33.70867
Longitude:	-117.8231
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Supervisor:	Not reported
Site Code:	400091
Senate District:	37
Assembly District:	73
Public Information Officer:	Not reported
Commercial Offsite Facility Types:	Not reported
Project Manager Lead:	Not reported
Project Manager:	Not reported
Permit Type:	RCRA
Permit Effective Date:	Not reported
Permit Expiration Date:	Not reported
Calenviroscreen Score:	71-75%
Total Planned Hours:	Not reported
Total Planned Amount:	Not reported
Total Actual Hours:	Not reported
Quarterly Update:	This is a closing military base which is being redeveloped for civilian use. For corrective action status, this site was transferred to Site Mitigation (SM) group around 1998 (exact date could not be confirmed but around this time many of the military bases were transferred from Permitting programt to Site Mit for Cleanup) for corrective action work. Since then, Site Mitigation has been working

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

to cleanup areas of the site. As areas were remediated, they were transferred for civilian use thru the "Finding of Suitability to Transfer" (FOST) process. For each FOST, a number of SWMUs were cleaned up and tranferred for civilian use. As of 6/06, 5 FOSTs were completed with many areas issued a No Further Action letter. A table was compiled to document the status for each SWMU found in the transferred areas. The facility requested DTSC not pusue a Class 3 permit modification equivalent process and public notice for corrective action complete determination for any past or future FOST properties. When the properties are transferred to the receiving entities, they can pursue this last step - corrective action complete determination. CA999 Corrective Action Terminated event can not be issued unless and until the receiving entities request it and pursue the associated Class 3 permit modification equivalent process. Since most of the corrective action activities have taken place by Site Mitigation. Refer to Site Mitigation EnviroStor database for details.

Activities:

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1985-07-18 00:00:00
Type:	RCRA
Title Description:	New Operating Permit - Multipe units
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1, CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	07/18/1990

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1985-07-18 00:00:00
Type:	RCRA
Title Description:	New Operating Permit - Multipe units
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1, CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	07/18/1985

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1985-07-18 00:00:00
Type:	RCRA
Title Description:	Imported 12/2011:PERMIT1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	12/03/1992

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1985-07-18 00:00:00
Type:	RCRA
Title Description:	New Operating Permit - Multipe units
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1, CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	05/21/1983

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1985-07-18 00:00:00
Type:	RCRA
Title Description:	Imported 12/2011:PERMIT1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	07/13/1990

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - TECHNICAL COMPLETE LETTER
Actual Date: 07/21/1992

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating
Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 07/18/1985

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating
Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: New Operating Permit - Multipe units
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1, CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 02/28/1983

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 07/18/1990

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating
Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 07/18/1985

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating
Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: New Operating Permit - Multipe units
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1, CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 07/18/1985

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 09/21/1990

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating
Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1985-07-18 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 02/28/1983

Closure:
EPA ID: CA9170090022
Facility Type: Historical - Non-Operating
Facility Name: USMC AIR STATION TUSTIN
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure
Final Date: Not reported
Type: RCRA
Title Description: Closure - CONTAIN1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 04/18/1996

EPA ID: CA9170090022
Facility Type: Historical - Non-Operating

TUSTIN MARINE CORPS AIR STATION (Continued) **1008152920**

Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Size:	Not reported
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	Closure - CONTAIN3
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description:	Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date:	10/13/1995

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Size:	Not reported
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	Closure - CONTAIN3
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN2 (GPRA Unit), CONTAIN3 (GPRA Unit)
Event Description:	Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date:	10/27/1999

Alias:

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	FRS
Alias:	110018968287

EPA ID:	CA9170090022
Facility Type:	Historical - Non-Operating
Facility Name:	USMC AIR STATION TUSTIN
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Project Code (Site Code)
Alias:	400091

5
North
< 1/8
0.119 mi.
628 ft.

KENNAN HERKIMER
15204 CAMDEN WAY
TUSTIN, CA 92782

RCRA NonGen / NLR **1031056298**
E MANIFEST **CAC003283942**

Relative:
Higher

Actual:
63 ft.

RCRA Listings:

Date Form Received by Agency:		20240723
Handler Name:		Kennan Herkimer
Handler Address:		15204 Camden Way
Handler City,State,Zip:		TUSTIN, CA 92782
EPA ID:		CAC003283942
Contact Name:		KENNAN HERKIMER
Contact Address:		15204 CAMDEN WAY
Contact City,State,Zip:		TUSTIN, CA 92782
Contact Telephone:		714-349-4797
Contact Fax:		Not reported
Contact Email:		JOAQUIN.V@OAKWOODTEAM.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		Not reported
Mailing City,State,Zip:		Not reported
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

KENNAN HERKIMER (Continued) **1031056298**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20240919
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: KENNAN HERKIMER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	15204 CAMDEN WAY
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-349-4797
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: KENNAN HERKIMER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	15204 CAMDEN WAY
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-349-4797
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20240422
Handler Name: KENNAN HERKIMER	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

KENNAN HERKIMER (Continued) **1031056298**

Receive Date:	20240723
Handler Name: KENNAN HERKIMER	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	All Other Waste Management Services

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	018931497FLE
Last Updated Date:	20241105
Shipped Date:	20240426
Received Date:	20240501
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003283942
Generator Name:	Kennan Herkimer
Generator Location Street Number:	Not reported
Generator Location Street 1:	15204 CAMDEN WAY
Generator Location Street 2:	Not reported
Generator Location City:	TUSTIN
Generator Location State:	CA
Generator Location Zip:	92782
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	15204 CAMDEN WAY
Generator Mail Street 2:	Not reported
Generator Mail City:	TUSTIN
Generator Mail Zip:	92782
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520478
Designated Facility Name:	Environmental Waste Solutions, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	PO BOX 626
Designated Facility Mail City:	LOMA LINDA
Designated Facility Mail Zip:	92354
Designated Facility Mail State:	CA

KENNAN HERKIMER (Continued) **1031056298**

Designated Facility Location Street Number: Not reported
Designated Facility Location Street 1: 31915 INDUSTRIAL LANE
Designated Facility Location Street 2: Not reported
Designated Facility Location City: PARKER
Designated Facility Location Zip: 85344
Designated Facility Location State: AZ
Designated Facility Contact Company Name: Not reported
Manifest Residue Indicator: N
Rejection Indicator: N

Transporter:
Manifest Tracking Number: 018931497FLE
Transporter Line Number: 1
Transporter EPA ID: CAL000483382
Transporter Name: Jj&S Asbestos Removal Inc Dba Jj&S Environmental Services

Manifest Tracking Number: 018931497FLE
Transporter Line Number: 2
Transporter EPA ID: CAR000183574
Transporter Name: Environmental Mngmt Technologies Inc

Waste Line:
Manifest Tracking Number: 018931497FLE
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: NA2212
U.S. DOT Description: Na2212 Abestos 9 Pgiii
Non-Hazardous Waste Description: Not reported
Number of Containers: 100
Container Type Code: BA
Container Type Description: Burlap, cloth, paper, or plastic bags
Waste Quantity: 4
Quantity Unit of Measure Code: Y
Quantity Unit of Measure Description: Cubic Yards
Waste Quantity, in Tons: 3.36
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 3.36
Waste Quantity, in Kilograms: 3047.6208
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 3047.6208
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: N

A6
SW
1/8-1/4
0.149 mi.
787 ft.

TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN B
TUSTIN, CA 92710
Site 2 of 3 in cluster A

CERS TANKS **S128862080**
N/A

Relative:
Lower

Actual:
57 ft.

CERS TANKS:
Name: TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN BLDG 534/ BURN PIT
Address: Not reported
City,State,Zip: TUSTIN, CA 92710
Site ID: 902287
CERS ID: T0605900982
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

A7
SW
1/8-1/4
0.149 mi.
787 ft.

TUSTIN MCAS - USMCAS TUSTIN UST 534A, 534B, 534C
TUSTIN, CA 92710
Site 3 of 3 in cluster A

CERS TANKS **S128862127**
N/A

Relative:
Lower

Actual:
57 ft.

CERS TANKS:
Name: TUSTIN MCAS - USMCAS TUSTIN UST 534A, 534B, 534C
Address: Not reported
City,State,Zip: TUSTIN, CA 92710
Site ID: 890197
CERS ID: T0605902259
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

8
NNE
1/8-1/4
0.163 mi.
859 ft.

CCSA TH
1422-1428 GEORGIA ST
TUSTIN, CA 92782

RCRA NonGen / NLR
E MANIFEST

1031048686
CAC003275755

Relative:
Higher

Actual:
65 ft.

RCRA Listings:

Date Form Received by Agency:		20240530
Handler Name:		Greystar Ccsa
Handler Address:		1422-1428 Georgia St
Handler City,State,Zip:		TUSTIN, CA 92782
EPA ID:		CAC003275755
Contact Name:		DOUG ZACK
Contact Address:		1422-1428 GEORGIA ST
Contact City,State,Zip:		TUSTIN, CA 92782
Contact Telephone:		714-706-3497
Contact Fax:		Not reported
Contact Email:		TRINI.ELIAS@US.BELFOR.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		Not reported
Mailing City,State,Zip:		Not reported
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

CCSA TH (Continued) **1031048686**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20240918
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DOUG ZACK	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1422-1428 GEORGIA ST
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-706-3497
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: GREYSTAR	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1422-1428 GEORGIA ST
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-706-3497
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20240229
Handler Name: GREYSTAR CCSA	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

CCSA TH (Continued) **1031048686**

Receive Date: 20240530
Handler Name: GREYSTAR CCSA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 011850033JJK
Last Updated Date: 20240404
Shipped Date: 20240304
Received Date: 20240318
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAC003275756
Generator Name: Ccsa Th
Generator Location Street Number: Not reported
Generator Location Street 1: 1422-1428 GEORGIA ST
Generator Location Street 2: Not reported
Generator Location City: TUSTIN
Generator Location State: CA
Generator Location Zip: 92782
Generator Mail Street Number: Not reported
Generator Mail Street 1: 1422-1428 GEORGIA ST
Generator Mail Street 2: Not reported
Generator Mail City: Tustin
Generator Mail Zip: 92782
Generator Mail State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: AZR000520882
Designated Facility Name: La Paz County Landfill
Designated Facility Mail Street Number: Not reported
Designated Facility Mail Street 1: Not reported
Designated Facility Mail Street 2: 26999 HIGHWAY 95
Designated Facility Mail City: PARKER
Designated Facility Mail Zip: 85344
Designated Facility Mail State: AZ

CCSA TH (Continued) **1031048686**

Designated Facility Location Street Number: Not reported
Designated Facility Location Street 1: 26999 HIGHWAY 95
Designated Facility Location Street 2: Not reported
Designated Facility Location City: PARKER
Designated Facility Location Zip: 85344
Designated Facility Location State: AZ
Designated Facility Contact Company Name: Not reported
Manifest Residue Indicator: N
Rejection Indicator: N

Transporter:
Manifest Tracking Number: 011850033JJK
Transporter Line Number: 1
Transporter EPA ID: CAC000386311
Transporter Name: Belfor Environmental

Manifest Tracking Number: 011850033JJK
Transporter Line Number: 2
Transporter EPA ID: CAR000049064
Transporter Name: E C T I

Waste Line:
Manifest Tracking Number: 011850033JJK
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: NA2212
U.S. DOT Description: R.Q. Na2212, Asbestos 9 Pgiii
Non-Hazardous Waste Description: Not reported
Number of Containers: 14
Container Type Code: BA
Container Type Description: Burlap, cloth, paper, or plastic bags
Waste Quantity: 1
Quantity Unit of Measure Code: Y
Quantity Unit of Measure Description: Cubic Yards
Waste Quantity, in Tons: 0.84
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.84
Waste Quantity, in Kilograms: 761.9052
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 761.9052
Management Method Code: H132
Management Method Description: LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: N

9
NE
1/8-1/4
0.179 mi.
944 ft.

CVS PHARMACY #10806
15180 KENSINGTON PARK DR
TUSTIN, CA 02895

CERS HAZ WASTE
HWTS
HAZNET

S123537859
N/A

Relative:
Higher

Actual:
63 ft.

CERS HAZ WASTE:
Name: CVS PHARMACY #10806
Address: 15180 KENSINGTON PARK DR
City,State,Zip: TUSTIN, CA 92782
Site ID: 429213
CERS ID: 10749532
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-11-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. An inspection of the facility was completed with Julie Dolan. Observed the waste storage area, perimeter of facility and trash container. Containers of wastes are covered and labeled. Wastes include flammables, oxidizers, toxics, universal wastes, and corrosives. Manifests for waste disposal are available for review. Emergency response and contact information is on site and available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. An inspection of the facility was completed with Megan Harper. Observed the waste storage area, perimeter of facility and trash compactor. Containers of hazardous wastes are covered and labeled. Wastes include flammables, oxidizers, corrosives, universal wastes. Manifests for waste disposal are available for review. Emergency response and contact information is on site and available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-21-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submittal was Accepted on 11/21/2022 by Jeff Nofal for Orange County Environmental Health
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406,
Affiliation Type Desc:	Document Preparer
Entity Name:	Krista Netter, Agent for Garfield Beach CVS, L.L.C.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Garfield Beach CVS, L.L.C.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(401) 765-1500,
Affiliation Type Desc:	Environmental Contact
Entity Name:	3E, Regulatory Services/CVS
Entity Title:	Not reported
Affiliation Address:	3207 Grey Hawk Ct., Ste. 200
Affiliation City:	Carlsbad
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92010
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	CVS Health, Attn: Erin Chilinski, One CVS Drive MC 1160
Affiliation City:	Woonsocket
Affiliation State:	RI
Affiliation Country:	Not reported
Affiliation Zip:	02895
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Krista Netter, Agent for Garfield Beach CVS, L.L.C.
Entity Title:	Data Entry Clerk
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

CVS PHARMACY #10806 (Continued) **S123537859**

Affiliation Type Desc: Legal Owner
Entity Name: Garfield Beach CVS, L.L.C.
Entity Title: Not reported
Affiliation Address: One CVS Drive
Affiliation City: Woonsocket
Affiliation State: RI
Affiliation Country: United States
Affiliation Zip: 02895
Affiliation Phone: (401) 765-1500,

Affiliation Type Desc: Parent Corporation
Entity Name: CVS Health
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: CVS PHARMACY #10806
Address: 15180 KENSINGTON PARK DR
City,State,Zip: TUSTIN, CA 92782
Site ID: 429213
CERS ID: 10749532
CERS Description: RCRA LQ HW Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-11-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. An inspection of the facility was completed with Julie Dolan. Observed the waste storage area, perimeter of facility and trash container. Containers of wastes are covered and labeled. Wastes include flammables, oxidizers, toxics, universal wastes, and corrosives. Manifests for waste disposal are available for review. Emergency response and contact information is on site and available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. An inspection of the facility was completed with Megan Harper. Observed the waste storage area, perimeter of facility and trash compactor. Containers of hazardous wastes are covered and labeled. Wastes include flammables, oxidizers, corrosives, universal wastes. Manifests for waste disposal are available for review. Emergency response and contact information is on site and available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

CVS PHARMACY #10806 (Continued) **S123537859**

Eval General Type: Other/Unknown
Eval Date: 11-21-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submittal was Accepted on 11/21/2022 by Jeff Nofal for Orange County Environmental Health
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Affiliation Type Desc: Document Preparer
Entity Name: Krista Netter, Agent for Garfield Beach CVS, L.L.C.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Garfield Beach CVS, L.L.C.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (401) 765-1500,

Affiliation Type Desc: Environmental Contact
Entity Name: 3E, Regulatory Services/CVS
Entity Title: Not reported
Affiliation Address: 3207 Grey Hawk Ct., Ste. 200
Affiliation City: Carlsbad
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92010
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: CVS Health, Attn: Erin Chilinski, One CVS Drive MC 1160
Affiliation City: Woonsocket
Affiliation State: RI

CVS PHARMACY #10806 (Continued) **S123537859**

Affiliation Country: Not reported
Affiliation Zip: 02895
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Krista Netter, Agent for Garfield Beach CVS, L.L.C.
Entity Title: Data Entry Clerk
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Garfield Beach CVS, L.L.C.
Entity Title: Not reported
Affiliation Address: One CVS Drive
Affiliation City: Woonsocket
Affiliation State: RI
Affiliation Country: United States
Affiliation Zip: 02895
Affiliation Phone: (401) 765-1500,

Affiliation Type Desc: Parent Corporation
Entity Name: CVS Health
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

HWTS:
Name: CVS PHARMACY #10806
Address: 15180 KENSINGTON PARK DR
Address 2: Not reported
City,State,Zip: TUSTIN, CA 92782
EPA ID: CAR000277244
Inactive Date: Not reported
Create Date: 11/03/2017
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1 CVS DR MC2340
Mailing Address 2: Not reported
Mailing City,State,Zip: WOONSOCKET, RI 2895
Owner Name: LONGS DRUG STORES CALIFORNIA LLC
Owner Address: 1 CVS DR MC 2340
Owner Address 2: Not reported
Owner City,State,Zip: WOONSOCKET, RI 2895
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: NICOLE WILKINSON
Contact Address: 1 CVS DRIVE
Contact Address 2: Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

City,State,Zip: WOONSOCKET, RI 28956146
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Active
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 33.71318538
Longitude: -117.8171624

NAICS:
EPA ID: CAR000277244
Create Date: 2017-11-03 16:39:57.747
NAICS Code: 446110
NAICS Description: Pharmacies and Drug Stores
Issued EPA ID Date: 2017-11-03 16:39:57.74000
Inactive Date: Not reported
Facility Name: CVS PHARMACY #10806
Facility Address: 15180 KENSINGTON PARK DR
Facility Address 2: Not reported
Facility City: TUSTIN
Facility County: Not reported
Facility State: CA
Facility Zip: 92782

HAZNET:
Name: CVS PHARMACY #10806
Address: 15180 KENSINGTON PARK DR
Address 2: Not reported
City,State,Zip: TUSTIN, CA 92782
Contact: NICOLE WILKINSON
Telephone: 4017707132
Mailing Name: Not reported
Mailing Address: 1 CVS DR MC2340

Year: 2021
Gepaid: CAR000277244
TSD EPA ID: CAD008364432
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.465

Year: 2021
Gepaid: CAR000277244
TSD EPA ID: CAD008364432
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.358

Year: 2021
Gepaid: CAR000277244
TSD EPA ID: MID980615298
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

CVS PHARMACY #10806 (Continued) **S123537859**

Tons:	0.0015
Year:	2021
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0765
Year:	2021
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.002
Year:	2020
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.001
Year:	2020
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.4135
Year:	2020
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0005
Year:	2020
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0005
Year:	2020
Gepaid:	CAR000277244
TSD EPA ID:	CAD008364432
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0005

CVS PHARMACY #10806 (Continued) **S123537859**

Click this hyperlink while viewing on your computer to access
21 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	331 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc

CVS PHARMACY #10806 (Continued) **S123537859**

Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	331 - Not reported
RCRA Code:	D007,D010
Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	214 - Not reported
RCRA Code:	D001
Meth Code:	H141 - Not reported
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020

CVS PHARMACY #10806 (Continued) **S123537859**

Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	D001
Meth Code:	H141 - Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301

CVS PHARMACY #10806 (Continued) **S123537859**

TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	P001
Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	214 - Not reported
RCRA Code:	D001,U002
Meth Code:	H141 - Not reported
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	331 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.0465
Waste Quantity:	93
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	P001,P075
Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	D007,D010
Meth Code:	H141 - Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432

CVS PHARMACY #10806 (Continued) **S123537859**

TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	791 - Not reported
RCRA Code:	D002
Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

Additional Information:

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	D001
Meth Code:	H141 - Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS

CVS PHARMACY #10806 (Continued) **S123537859**

Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	214 - Not reported
RCRA Code:	D001
Meth Code:	H141 - Not reported
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	331 - Not reported
RCRA Code:	D007,D010

CVS PHARMACY #10806 (Continued) **S123537859**

Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	331 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc

CVS PHARMACY #10806 (Continued) **S123537859**

Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	214 - Not reported
RCRA Code:	D001,U002
Meth Code:	H141 - Not reported
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	P001
Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020

CVS PHARMACY #10806 (Continued) **S123537859**

Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	331 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.0465
Waste Quantity:	93
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301

CVS PHARMACY #10806 (Continued) **S123537859**

TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	D007,D010
Meth Code:	H141 - Not reported
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	P001,P075
Meth Code:	H141 - Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	9/4/2020
Shipment Date:	9/4/2020
Receipt Date:	9/14/2020
Manifest Number:	014939651FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA
Telephone:	Not reported
Contact:	Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Stericycle Specialty Waste Solutions Inc
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood, CA 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	311 - Not reported
RCRA Code:	D007,D010
Meth Code:	H141 - Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P

Additional Information:

Year:	2019
EM Manifest ID:	850424
Shipment Date:	8/7/2019
Shipment Date:	8/7/2019
Receipt Date:	8/28/2019
Manifest Number:	013059027FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782-1801
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	317-275-7568
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MOD095038998
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	INR000110197
TSDF Name:	Stericycle Environmental Solutions, Inc. Indianapolis
TSDF Address 1:	2770 Fortune Circle East
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Indianapolis 46241
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

Federal:

Year:	2019
EM Manifest ID:	850424
Generator EPA ID:	CAR000277244
Shipment Date:	2019-08-07
Manifest Number:	013059027FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001

State:

Year:	2019
EM Manifest ID:	850424
Generator EPA ID:	CAR000277244
Shipment Date:	2019-08-07
Manifest Number:	013059027FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	385873
Shipment Date:	5/14/2019
Shipment Date:	5/14/2019
Receipt Date:	5/29/2019
Manifest Number:	013058351FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC

CVS PHARMACY #10806 (Continued) **S123537859**

TSDF Address 1: 425 Isis Ave.
TSDF Address 2: Not reported
TSDF City,State,Zip: Inglewood 90301
TSDF Telephone: Not reported
TSDFA EPA ID: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:

Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: P001

Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: P075

Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.03200
Quantity Waste: 64.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D007

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.03200
Quantity Waste:	64.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D010

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D007

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D009

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Type:	Pounds
Federal Code:	D010
Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D024
Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	P001
Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D007
Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D010

State:
Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 311

Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.03200
Quantity Waste: 64.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 311

Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00100
Quantity Waste: 2.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 311

Year: 2019
EM Manifest ID: 385873
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058351FLE

CVS PHARMACY #10806 (Continued) **S123537859**

Line Number:	4
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.01400
Quantity Waste:	28.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	385873
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058351FLE
Line Number:	7
Method Code:	H141
Quantity Tons:	0.02500
Quantity Waste:	50.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2019

CVS PHARMACY #10806 (Continued) **S123537859**

EM Manifest ID:	385874
Shipment Date:	5/14/2019
Shipment Date:	5/14/2019
Receipt Date:	5/21/2019
Manifest Number:	013058352FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	775-575-2760
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Fernley 89408
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	385874
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058352FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01950
Quantity Waste:	39.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001

Year:	2019
EM Manifest ID:	385874
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058352FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00500

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Waste: 10.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 385874
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058352FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00850
Quantity Waste: 17.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 385874
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058352FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00850
Quantity Waste: 17.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: U002

State:
Year: 2019
EM Manifest ID: 385874
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14
Manifest Number: 013058352FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.01950
Quantity Waste: 39.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 311

Year: 2019
EM Manifest ID: 385874
Generator EPA ID: CAR000277244
Shipment Date: 2019-05-14

CVS PHARMACY #10806 (Continued) **S123537859**

Manifest Number:	013058352FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00500
Quantity Waste:	10.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Year:	2019
EM Manifest ID:	385874
Generator EPA ID:	CAR000277244
Shipment Date:	2019-05-14
Manifest Number:	013058352FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00850
Quantity Waste:	17.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Year:	2019
EM Manifest ID:	309256
Shipment Date:	2/18/2019
Shipment Date:	2/18/2019
Receipt Date:	3/19/2019
Manifest Number:	013124498FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	775-575-2760
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Fernley 89408
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:
Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: U002

Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00600
Quantity Waste: 12.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 3
Method Code: H141

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Tons: 0.01400
Quantity Waste: 28.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

State:
Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00400
Quantity Waste: 8.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 214

Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00600
Quantity Waste: 12.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 214

Year: 2019
EM Manifest ID: 309256
Generator EPA ID: CAR000277244
Shipment Date: 2019-02-18
Manifest Number: 013124498FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.01400
Quantity Waste: 28.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 311

Year: 2019
EM Manifest ID: 696481

CVS PHARMACY #10806 (Continued) **S123537859**

Shipment Date:	10/28/2019
Shipment Date:	10/28/2019
Receipt Date:	11/20/2019
Manifest Number:	013678460FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782-1801
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	317-275-7568
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MOD095038998
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	INR000110197
TSDF Name:	Stericycle Environmental Solutions, Inc. Indianapolis
TSDF Address 1:	2770 Fortune Circle East
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Indianapolis 46241
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	696481
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678460FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001

State:

Year:	2019
EM Manifest ID:	696481
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678460FLE
Line Number:	1
Method Code:	H141

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	55008
Shipment Date:	10/28/2019
Shipment Date:	10/28/2019
Receipt Date:	11/1/2019
Manifest Number:	013678461FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782-1801
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	323-776-6233
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.04500
Quantity Waste:	90.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds

CVS PHARMACY #10806 (Continued) **S123537859**

Federal Code:	D007
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.04500
Quantity Waste:	90.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D010
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D009
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D024
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P

CVS PHARMACY #10806 (Continued) **S123537859**

Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	U129
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	U205
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.18500
Quantity Waste:	370.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	4
Method Code:	H141

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Tons:	0.18500
Quantity Waste:	370.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	U002
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	P001
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D007
Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D010

State:

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244

CVS PHARMACY #10806 (Continued) **S123537859**

Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.04500
Quantity Waste:	90.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.01500
Quantity Waste:	30.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.18500
Quantity Waste:	370.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	214

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	55008
Generator EPA ID:	CAR000277244
Shipment Date:	2019-10-28
Manifest Number:	013678461FLE
Line Number:	7
Method Code:	H141
Quantity Tons:	0.05050
Quantity Waste:	101.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Additional Information:

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Shipment Date:	6/18/2018
Shipment Date:	6/18/2018
Receipt Date:	6/28/2018
Manifest Number:	010835247FLE
Generator EPA ID:	CAR000277244
Name:	CVS # 10806
Address:	Not reported
Address 2:	Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217554
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D010

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1

CVS PHARMACY #10806 (Continued) **S123537859**

Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	P001
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	P001
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	P075
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	U129

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	U205

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00250
Quantity Waste:	5.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D002

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.01950
Quantity Waste:	39.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007

Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.01950
Quantity Waste:	39.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Type: NULL
Federal Code: D010

State:
Year: 2018
EM Manifest ID: 010835247FLE20180618_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-06-18
Manifest Number: 010835247FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 311

Year: 2018
EM Manifest ID: 010835247FLE20180618_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-06-18
Manifest Number: 010835247FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 311

Year: 2018
EM Manifest ID: 010835247FLE20180618_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-06-18
Manifest Number: 010835247FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00100
Quantity Waste: 2.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 311

Year: 2018
EM Manifest ID: 010835247FLE20180618_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-06-18
Manifest Number: 010835247FLE
Line Number: 4
Method Code: H141
Quantity Tons: 0.00100

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00250
Quantity Waste:	5.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	122
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.01950
Quantity Waste:	39.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE
Line Number:	7
Method Code:	H141
Quantity Tons:	0.01250
Quantity Waste:	25.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010835247FLE20180618_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-06-18
Manifest Number:	010835247FLE

CVS PHARMACY #10806 (Continued) **S123537859**

Line Number:	8
Method Code:	H141
Quantity Tons:	0.01800
Quantity Waste:	36.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Shipment Date:	3/30/2018
Shipment Date:	3/30/2018
Receipt Date:	4/11/2018
Manifest Number:	010836340FLE
Generator EPA ID:	CAR000277244
Name:	CVS # 10806
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217000
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00250
Quantity Waste:	5.000000
Quantity Unit:	P
Number of Containers:	1

CVS PHARMACY #10806 (Continued) **S123537859**

Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00250
Quantity Waste:	5.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D010
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	P001
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	P075
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D007

Year: 2018
EM Manifest ID: 010836340FLE20180330_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-03-30
Manifest Number: 010836340FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D010

Year: 2018
EM Manifest ID: 010836340FLE20180330_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-03-30
Manifest Number: 010836340FLE
Line Number: 4
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: P001

State:
Year: 2018
EM Manifest ID: 010836340FLE20180330_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-03-30
Manifest Number: 010836340FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00250
Quantity Waste: 5.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 311

Year: 2018
EM Manifest ID: 010836340FLE20180330_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-03-30

CVS PHARMACY #10806 (Continued) **S123537859**

Manifest Number:	010836340FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.06200
Quantity Waste:	124.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018

CVS PHARMACY #10806 (Continued) **S123537859**

EM Manifest ID:	010836340FLE20180330_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-03-30
Manifest Number:	010836340FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.00900
Quantity Waste:	18.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	229735
Shipment Date:	11/27/2018
Shipment Date:	11/27/2018
Receipt Date:	12/27/2018
Manifest Number:	012491928FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	775-575-2760
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Fernley 89408
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	229735
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491928FLE
Line Number:	1
Method Code:	H141

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D001

Year: 2018
EM Manifest ID: 229735
Generator EPA ID: CAR000277244
Shipment Date: 2018-11-27
Manifest Number: 012491928FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: U002

Year: 2018
EM Manifest ID: 229735
Generator EPA ID: CAR000277244
Shipment Date: 2018-11-27
Manifest Number: 012491928FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00250
Quantity Waste: 5.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D001

Year: 2018
EM Manifest ID: 229735
Generator EPA ID: CAR000277244
Shipment Date: 2018-11-27
Manifest Number: 012491928FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D001

State:
Year: 2018
EM Manifest ID: 229735
Generator EPA ID: CAR000277244

CVS PHARMACY #10806 (Continued) **S123537859**

Shipment Date:	2018-11-27
Manifest Number:	012491928FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Burlap, cloth, paper, or plastic bags
Quantity Type:	Pounds
State Code:	214

Year:	2018
EM Manifest ID:	229735
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491928FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00250
Quantity Waste:	5.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Burlap, cloth, paper, or plastic bags
Quantity Type:	Pounds
State Code:	214

Year:	2018
EM Manifest ID:	229735
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491928FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Burlap, cloth, paper, or plastic bags
Quantity Type:	Pounds
State Code:	331

Year:	2018
EM Manifest ID:	198247
Shipment Date:	11/27/2018
Shipment Date:	11/27/2018
Receipt Date:	12/14/2018
Manifest Number:	012491927FLE
Generator EPA ID:	CAR000277244
Name:	CVS
Address:	15180 KENSINGTON PARK DR.,
Address 2:	Not reported
City,State,Zip:	TUSTIN 92782
Telephone:	800-924-6804
Contact:	Not reported
Contact Telephone:	323-776-6233

CVS PHARMACY #10806 (Continued) **S123537859**

Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	Rho Chem LLC
TSDF Address 1:	425 Isis Ave.
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Inglewood 90301
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	P001

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D007

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	2

CVS PHARMACY #10806 (Continued) **S123537859**

Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D010
Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	P001
Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	P075
Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00800
Quantity Waste:	16.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D007
Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244

CVS PHARMACY #10806 (Continued) **S123537859**

Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00800
Quantity Waste:	16.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D010

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D002

State:

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00800
Quantity Waste:	16.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	311

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	122

Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.01250
Quantity Waste:	25.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Type:	Pounds
State Code:	331
Year:	2018
EM Manifest ID:	198247
Generator EPA ID:	CAR000277244
Shipment Date:	2018-11-27
Manifest Number:	012491927FLE
Line Number:	7
Method Code:	H141
Quantity Tons:	0.02700
Quantity Waste:	54.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331
Year:	2018
EM Manifest ID:	010837418FLE20180103_D_1
Shipment Date:	1/3/2018
Shipment Date:	1/3/2018
Receipt Date:	1/17/2018
Manifest Number:	010837418FLE
Generator EPA ID:	CAR000277244
Name:	CVS # 10806
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NED986382133
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	INR000110197
TSDF Name:	STERICYCLE INC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	010837418FLE20180103_D_1
Generator EPA ID:	CAR000277244

CVS PHARMACY #10806 (Continued) **S123537859**

Shipment Date:	2018-01-03
Manifest Number:	010837418FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

State:

Year:	2018
EM Manifest ID:	010837418FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837418FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Shipment Date:	1/3/2018
Shipment Date:	1/3/2018
Receipt Date:	1/8/2018
Manifest Number:	010837419FLE
Generator EPA ID:	CAR000277244
Name:	CVS # 10806
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217000
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported

CVS PHARMACY #10806 (Continued) **S123537859**

Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:
Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00850
Quantity Waste: 17.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00350
Quantity Waste: 7.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE

CVS PHARMACY #10806 (Continued) **S123537859**

Line Number:	3
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	U002
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00700
Quantity Waste:	14.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00700
Quantity Waste:	14.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D010
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1

CVS PHARMACY #10806 (Continued) **S123537859**

Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	7
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	7
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D010

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	8
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	P001

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	11
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	12
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	13
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	13
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Type: NULL
Federal Code: D010

Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 14
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: P001

State:
Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 141

Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00850
Quantity Waste: 17.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 311

Year: 2018
EM Manifest ID: 010837419FLE20180103_D_1
Generator EPA ID: CAR000277244
Shipment Date: 2018-01-03
Manifest Number: 010837419FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00350

CVS PHARMACY #10806 (Continued) **S123537859**

Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	4
Method Code:	H141
Quantity Tons:	0.00700
Quantity Waste:	14.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	5
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	6
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE

CVS PHARMACY #10806 (Continued) **S123537859**

Line Number:	7
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	8
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	9
Method Code:	H141
Quantity Tons:	0.03450
Quantity Waste:	69.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	10
Method Code:	H141
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331
Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1

CVS PHARMACY #10806 (Continued) **S123537859**

Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	11
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	12
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	13
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	14
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311

CVS PHARMACY #10806 (Continued) **S123537859**

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	15
Method Code:	H141
Quantity Tons:	0.03450
Quantity Waste:	69.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	010837419FLE20180103_D_1
Generator EPA ID:	CAR000277244
Shipment Date:	2018-01-03
Manifest Number:	010837419FLE
Line Number:	16
Method Code:	H141
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

B10 **TUSTIN MCAS - USMCAS TUSTIN UST 90** **CERS TANKS** **S128862278**
WNW **N/A**
1/8-1/4 **TUSTIN, CA 92710**
0.199 mi.
1050 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
63 ft.

CERS TANKS:

Name:	TUSTIN MCAS - USMCAS TUSTIN UST 90
Address:	Not reported
City,State,Zip:	TUSTIN, CA 92710
Site ID:	905731
CERS ID:	T0605986620
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

B11 **TUSTIN MCAS - USMCAS TUSTIN UST 90** **UST** **U004267663**
WNW **USMCAS TUSTIN BUILDING 90** **N/A**
1/8-1/4 **TUSTIN, CA 92710**
0.199 mi.
1050 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
63 ft.

MILITARY UST SITES:

Name:	TUSTIN MCAS - USMCAS TUSTIN UST 90
Address:	USMCAS TUSTIN BUILDING 90
City,State,Zip:	TUSTIN, CA 92710
Global ID:	T0605986620
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/05/2005
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	PAH
Local Agency:	Not reported
RB Case Number:	083003905T
Loc Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Aquifer used for drinking water supply
Site History:	Not reported
Begin Date:	06/01/1993
How Discovered:	Other Means
How Discovered Description:	UST excavated and removed
Stop Method:	Close and Remove Tank
Stop Description:	500 GALLON STEEL TANK USED TO STORE FUEL OIL NO. 2. INSTALLED 1943. REMOVED JUNE 1993.
Latitude:	33.712718085
Longitude:	-117.823919417

Geotracker:

EPA Region:	9
Coordinate Source:	* High Quality GPS
Quantity Released Gallons:	Not reported
Leak Reported Date:	06/07/1995
Discharge Source:	Other
Discharge Cause:	Other
No Further Action Date:	01/05/2005
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	76-80%
CA Enviroscreen 4 Score:	60-65%
Military DOD Site:	Yes
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported

C12
West
1/8-1/4
0.205 mi.
1083 ft.

TUSTIN MCAS - USMCAS TUSTIN UST 28A
USMCAS TUSTIN
TUSTIN, CA 92710

Site 1 of 2 in cluster C

UST **U004267645**
N/A

Relative:
Higher

Actual:
60 ft.

MILITARY UST SITES:

Name:	TUSTIN MCAS - USMCAS TUSTIN UST 28A
Address:	USMCAS TUSTIN
City,State,Zip:	TUSTIN, CA 92710
Global ID:	T0605947657
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/21/1997
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	PAH
Local Agency:	Not reported
RB Case Number:	083003898T
Loc Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Diesel
Potential Media Affected:	Aquifer used for drinking water supply
Site History:	Not reported
Begin Date:	11/29/1995
How Discovered:	Other Means
How Discovered Description:	MILITARY BASE.
Stop Method:	Close and Remove Tank
Stop Description:	UST REMOVED 8/12/1993.
Latitude:	33.7103
Longitude:	-117.8254

Geotracker:

EPA Region:	9
Coordinate Source:	* High Quality GPS
Quantity Released Gallons:	Not reported
Leak Reported Date:	12/01/1995
Discharge Source:	Other
Discharge Cause:	Unknown
No Further Action Date:	01/21/1997
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	76-80%
CA Enviroscreen 4 Score:	60-65%
Military DOD Site:	Yes
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported

C13 **TUSTIN MCAS - USMCAS TUSTIN UST 28A** **CERS TANKS** **S128862482**
West **N/A**
1/8-1/4 **TUSTIN, CA 92710**
0.205 mi.
1083 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
60 ft.

CERS TANKS:
Name: TUSTIN MCAS - USMCAS TUSTIN UST 28A
Address: Not reported
City,State,Zip: TUSTIN, CA 92710
Site ID: 849982
CERS ID: T0605947657
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

D14 **TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN F** **CERS TANKS** **S128862620**
NNW **N/A**
1/8-1/4 **TUSTIN, CA 92710**
0.215 mi.
1137 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
65 ft.

CERS TANKS:
Name: TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN FUEL FARM UST 22
Address: Not reported
City,State,Zip: TUSTIN, CA 92710
Site ID: 847074
CERS ID: T0605901451
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

D15 NNW 1/8-1/4 0.216 mi. 1138 ft. | **TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN F**
USMCAS TUSTIN-FUEL FARM
TUSTIN, CA 92710
Site 2 of 4 in cluster D

UST | **U004267587** | **N/A**

Relative: Higher

Actual: 65 ft.

MILITARY UST SITES:

Name:	TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN FUEL FARM UST 22
Address:	USMCAS TUSTIN-FUEL FARM
City,State,Zip:	TUSTIN, CA 92710
Global ID:	T0605901451
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	03/03/1997
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	PAH
Local Agency:	Not reported
RB Case Number:	083001945T
Loc Case Number:	91UT122
File Location:	Not reported
Potential Contaminants of Concern:	Gasoline
Potential Media Affected:	Soil
Site History:	Not reported
Begin Date:	10/14/1991
How Discovered:	Other Means
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	33.714398093
Longitude:	-117.82249361

Geotracker:

EPA Region:	9
Coordinate Source:	* High Quality GPS
Quantity Released Gallons:	Not reported
Leak Reported Date:	10/22/1991
Discharge Source:	Other
Discharge Cause:	Unknown
No Further Action Date:	03/03/1997
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	76-80%
CA Enviroscreen 4 Score:	60-65%
Military DOD Site:	Yes
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported

D16 **MERIWETHER** **RCRA-LQG** **1014386493**
NNW **15229 COLUMBUS SQUARE DRIVE** **CAC002634389**
1/8-1/4 **TUSTIN, CA 92780**
0.220 mi.
1159 ft. **Site 3 of 4 in cluster D**

Relative: **Higher**
Actual: **66 ft.**

RCRA Listings:

Date Form Received by Agency:		20100908
Handler Name:		Meriwether
Handler Address:		15229 Columbus Square Drive
Handler City,State,Zip:		TUSTIN, CA 92780
EPA ID:		CAC002634389
Contact Name:		BRYAN M KATNIK
Contact Address:		25 ENTERPRISE SUITE 300
Contact City,State,Zip:		ALISO VIEDO, CA 92656
Contact Telephone:		949-349-8136
Contact Fax:		949-349-8136
Contact Email:		BRYAN.KATNIK@LENNAR.COM
Contact Title:		COMMUNITY DEVELOPMENT MANAGER
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Large Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		2009
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		25 ENTERPRISE SUITE 300
Mailing City,State,Zip:		ALISO VIEDO, CA 92656
Owner Name:	Lennar Homes	
Owner Type:		Private
Operator Name:	Bryan Katnik	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

MERIWETHER (Continued) **1014386493**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20101006
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2009

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D002
Waste Description: Corrosive Waste

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: LENNAR HOMES	
Legal Status:	Private
Date Became Current:	20060301
Date Ended Current:	Not reported
Owner/Operator Address:	25 ENTERPRISE SUITE 300
Owner/Operator City,State,Zip:	ALISO VIEDO, CA 92656
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRYAN KATNIK	
Legal Status:	Private
Date Became Current:	20060301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20100908
Handler Name: MERIWETHER	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported

MERIWETHER (Continued) **1014386493**

Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 236115
NAICS Description: New Single-Family Housing Construction (Except Operative Builders)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E17 **TUSTIN MCAS** **PFAS FEDERAL SITES** **1027317120**
SW **N/A**
1/8-1/4 **, CA**
0.220 mi.
1161 ft. **Site 1 of 3 in cluster E**

Relative:
Lower

Actual:
57 ft.

PFAS FEDERAL SITES:
Facility ID: CA917302478300
Name: TUSTIN MCAS
Address: Not reported
City,State,Zip: CA
Latitude: 33.707869
Longitude: -117.824838
Federal Agency: Navy
EPA Region: 09
PFAS Presence: Known Detection

Link:
Property Type: BRAC
Organization Reporting PFAS Presence: DoD
Notes: This list is based on information as of December 31, 2016, and verified in July 2018. It should also be noted that lat/long info is close to centroid of installation and does not reflect any association with PFAS release points.

EJSCREEN Report:

D18 **DANIEL LEE** **RCRA NonGen / NLR** **1031042317**
NNW **1405 MONTGOMERY ST.** **E MANIFEST** **CAC003268813**
1/8-1/4 **TUSTIN, CA 92782**
0.225 mi.
1186 ft. **Site 4 of 4 in cluster D**

Relative: **Higher**
Actual: **65 ft.**

RCRA Listings:

Date Form Received by Agency:		20240415
Handler Name:		Daniel Lee
Handler Address:		1405 Montgomery St.
Handler City,State,Zip:		TUSTIN, CA 92782
EPA ID:		CAC003268813
Contact Name:		DANIEL LEE
Contact Address:		1405 MONTGOMERY ST.
Contact City,State,Zip:		TUSTIN, CA 92782
Contact Telephone:		714-488-0858
Contact Fax:		Not reported
Contact Email:		DANSTCA2000@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		Not reported
Mailing City,State,Zip:		Not reported
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

DANIEL LEE (Continued) **1031042317**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20240918
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: DANIEL LEE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1405 MONTGOMERY ST.
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-488-0858
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: DANIEL LEE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1405 MONTGOMERY ST.
Owner/Operator City,State,Zip:	TUSTIN, CA 92782
Owner/Operator Telephone:	714-488-0858
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20240115
Handler Name: DANIEL LEE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

DANIEL LEE (Continued) **1031042317**

Receive Date:	20240415
Handler Name: DANIEL LEE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	All Other Waste Management Services

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	018926747FLE
Last Updated Date:	20240228
Shipped Date:	20240219
Received Date:	20240221
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003268813
Generator Name:	Daniel Lee
Generator Location Street Number:	Not reported
Generator Location Street 1:	1405 MONTGOMERY ST.
Generator Location Street 2:	Not reported
Generator Location City:	TUSTIN
Generator Location State:	CA
Generator Location Zip:	92782
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	1405 MONTGOMERY ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	TUSTIN
Generator Mail Zip:	92782
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ

DANIEL LEE (Continued) **1031042317**

Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	018926747FLE
Transporter Line Number:	1
Transporter EPA ID:	CAL000317101
Transporter Name:	All Clear Environmental Inc

Manifest Tracking Number:	018926747FLE
Transporter Line Number:	2
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Waste Line:

Manifest Tracking Number:	018926747FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	R.Q. Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	7
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

E19
SW
1/8-1/4
0.225 mi.
1189 ft.

TUSTIN MCAS - USMCAS TUSTIN UST 171
USMCAS TUSTIN BLDG 171
TUSTIN, CA 92710

Site 2 of 3 in cluster E

UST **U004267575**
N/A

Relative:
Lower

Actual:
57 ft.

MILITARY UST SITES:

Name:	TUSTIN MCAS - USMCAS TUSTIN UST 171
Address:	USMCAS TUSTIN BLDG 171
City,State,Zip:	TUSTIN, CA 92710
Global ID:	T0605901133
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	11/21/1997
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	PAH
Local Agency:	Not reported
RB Case Number:	083001487T
Loc Case Number:	90UT074
File Location:	Not reported
Potential Contaminants of Concern:	Diesel
Potential Media Affected:	Soil
Site History:	Not reported
Begin Date:	02/22/1990
How Discovered:	Tank Tightness Test
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	33.708083255
Longitude:	-117.825137746

Geotracker:

EPA Region:	9
Coordinate Source:	* High Quality GPS
Quantity Released Gallons:	Not reported
Leak Reported Date:	04/16/1990
Discharge Source:	Piping
Discharge Cause:	Other
No Further Action Date:	11/21/1997
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	76-80%
CA Enviroscreen 4 Score:	60-65%
Military DOD Site:	Yes
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported

E20
SW
1/8-1/4
0.225 mi.
1189 ft.

TUSTIN MCAS - USMCAS TUSTIN UST 171 — **CERS TANKS** — **S128862084** / **N/A**

TUSTIN, CA 92710

Site 3 of 3 in cluster E

Relative:
Lower

Actual:
57 ft.

CERS TANKS:

Name:	TUSTIN MCAS - USMCAS TUSTIN UST 171
Address:	Not reported
City,State,Zip:	TUSTIN, CA 92710
Site ID:	878486
CERS ID:	T0605901133
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

F21
NE
1/4-1/2
0.307 mi.
1621 ft.

RADAR BOMB SCORING — **FUDS** — **1024903626** / **N/A**

SANTA ANA, CA

Site 1 of 2 in cluster F

Relative:
Higher

Actual:
63 ft.

FUDS:

EPA Region:	09
Installation ID:	CA99799F557300
Congressional District Number:	45
Name:	RADAR BOMB SCORING
FUDS Number:	J09CA0563
City:	SANTA ANA
State:	CA
County:	ORANGE
Object ID:	633
USACE Division:	spd
USACE District:	spl
Status:	Properties without projects
Current Owner:	OTHER: OTHER

EMS Map Link:

Eligibility:	Ineligible
Has Projects:	no
NPL Status:	Not on the NPL
Project Required:	no
Feature Description:	N/A
Latitude:	33.71527778
Longitude:	-117.8166667

F22 NE 1/4-1/2 0.309 mi. 1632 ft. **TUSTIN RAD BOMB/SCORE SITE** **ENVIROSTOR** **S107737118 N/A**

SANTA ANA, CA

Site 2 of 2 in cluster F

Relative: Higher

Actual: 63 ft.

ENVIROSTOR:

Name:	TUSTIN RAD BOMB/SCORE SITE
Address:	Not reported
City,State,Zip:	SANTA ANA, CA
Facility ID:	80000427
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.71527
Longitude:	-117.8166
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Explosives (UXO, MEC
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F557300
Alias Type:	Federal Facility ID
Alias Name:	J09CA0563
Alias Type:	INPR
Alias Name:	80000427
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	05/17/1997
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

23
NE
1/4-1/2
0.346 mi.
1826 ft.

TUSTIN PARCEL A
2300 BLOCK EDINGER AVENUE
TUSTIN, CA 92680

ENVIROSTOR **S100270074**
N/A

Relative:
Higher

Actual:
62 ft.

ENVIROSTOR:

Name:	TUSTIN PARCEL A
Address:	2300 BLOCK EDINGER AVENUE
City,State,Zip:	TUSTIN, CA 92680
Facility ID:	30970005
Status:	No Further Action
Status Date:	06/23/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.7149
Longitude:	-117.8151
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	30970005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/21/1992
Comments:	2/8/91: Navy requested PEA oversight of Navy Housing devel. on base, south of Edinger Ave. around the 2300 blo. identified as Parcel A containing Site A-1 (approx. 7.5 acres) and Site A-2 (approx. 14 acres) south- west and adjacent to Site A-1. 4/12/91: Navy transmitted $23,694 to cover PEA fee for 3 PEAs to be submitted after field data compiled. 1/21/92: DTSC sent comments on PEA report submitted 11/21/91 requesting that comments be addressed within 30 days in order for Department’s concurrence in NFA.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

TUSTIN PARCEL A (Continued) **S100270074**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

G24 **MCAS SANTA ANA** **FUDS** **1024903841**
SSW **N/A**
1/4-1/2 **SANTA ANA, CA**
0.348 mi.
1837 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
53 ft.

FUDS:

EPA Region:	09
Installation ID:	CA99799F599000
Congressional District Number:	45
Name:	MCAS SANTA ANA
FUDS Number:	J09CA1102
City:	SANTA ANA
State:	CA
County:	ORANGE
Object ID:	410
USACE Division:	spd
USACE District:	spl
Status:	Properties without projects
Current Owner:	OTHER: OTHER

EMS Map Link:

Eligibility:	Ineligible
Has Projects:	no
NPL Status:	Not on the NPL
Project Required:	no
Feature Description:	Not reported
Latitude:	33.70555556
Longitude:	-117.825

G25 **MCAS SANTA ANA** **ENVIROSTOR** **S109548333**
SSW **N/A**
1/4-1/2 **SANTA ANA, CA**
0.348 mi.
1839 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
53 ft.

ENVIROSTOR:

Name:	MCAS SANTA ANA
Address:	Not reported
City,State,Zip:	SANTA ANA, CA
Facility ID:	80000547
Status:	Inactive - Needs Evaluation
Status Date:	08/14/2018
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Patrick Hsieh
Division Branch:	Cleanup Cypress

MCAS SANTA ANA (Continued) **S109548333**

Assembly: 73
Senate: 37
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.70555
Longitude: -117.825
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Marine Corps Air Station, Santa Ana
Alias Type: Alternate Name
Alias Name: CA99799F599000
Alias Type: Federal Facility ID
Alias Name: J09CA1102
Alias Type: INPR
Alias Name: 80000547
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Site Screening
Schedule Due Date: 07/27/2018
Schedule Revised Date: 05/27/2019

26
NNE
1/4-1/2
0.353 mi.
1864 ft.

CHEVRON #9-0550 **LUST** **S106784780**
2051 EDINGER AVE **N/A**
SANTA ANA, CA 92707

Relative:
Higher

Actual:
72 ft.

LUST REG 8:
Name: CHEVRON #9-0550
Address: 2051 EDINGER AVE
City: SANTA ANA
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Remedial action (cleanup) Underway
Case Number: 083000493T
Local Case Num: Not reported
Case Type: Aquifer affected
Substance: Gasoline
Qty Leaked: 5000

CHEVRON #9-0550 (Continued) **S106784780**

Abate Method:	FPGTVE
Cross Street:	AUTO MALL
Enf Type:	MRPO
Funding:	Not reported
How Discovered:	Inventory Control
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0605900393
How Stopped Date:	10/1/1985
Enter Date:	7/20/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	3/30/1982
Enforcement Date:	6/10/1988
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	7/20/1987
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	12/17/2002
Date Post Remedial Action Monitoring:	12/12/1996
Enter Date:	7/20/1987
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.72715621
Longitude:	-117.8365741
MTBE Date:	3/3/1998
Max MTBE GW:	2400
MTBE Concentration:	3
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	TME
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: MAX BENZENE 5400 PPB, MTBE 750. Submitted 3rd Quarter 2000 Progress Report on October 23, 2000.

27
NW
1/4-1/2
0.385 mi.
2033 ft.

TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN -
SEVERYNS ROAD
TUSTIN, CA 92710

DEED
MCS

S109291588
N/A

Relative:
Higher

Actual:
66 ft.

DEED:

Name:	TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN - OU-4B - IRP-13W DRUM STORAGE AREA NO. 3
Address:	SEVERYNS ROAD
City,State,Zip:	TUSTIN, CA 92710
Envirostor ID:	DOD100397200
Area:	Not reported
Sub Area:	Not reported
Site Type:	DOD
Status:	OPEN - REMEDIATION
Agency:	SWRCB
Covenant Uploaded:	Y
Deed Date(s):	06/05/2008
File Name:	Geotracker Land Use/Deed Restrictions

MCS:

Name:	TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN - OU-4B - IRP-13W DRUM STORAGE AREA NO. 3
Address:	SEVERYNS ROAD
City,State,Zip:	TUSTIN, CA 92710
Global Id:	DOD100397200
Latitude:	33.71495
Longitude:	-117.8259
Case Type:	Military Cleanup Site
Status:	Open - Remediation
Status Date:	01/15/2010
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Caseworker:	PAH
Local Agency:	Not reported
RB Case Number:	Not reported
LOC Case Number:	400091 -- 6
File Location:	Regional Board
Potential Media Affect:	Other Groundwater (uses other than drinking water), Soil
EDR Link ID:	DOD100397200
Potential Contaminants of Concern:	Toluene, Trichloroethylene (TCE), Polychlorinated biphenyls (PCBs), Aviation, Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
EPA Region:	9
Coordinate Source:	Manual Entry on Screens
Quantity Released Gallons:	Not reported
Begin Date:	10/06/1994
Leak Reported Date:	10/06/1994
How Discovered:	Site Assessment/Site Investigation
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	71-75%

TUSTIN MCAS - US MARINE CORPS AIR STATION TUSTIN - OU-4B - I (Continued) **S109291588**

CA Enviroscreen 4 Score:	60-65%
Military DOD Site:	Yes
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim Number:	Not reported
Claim Status:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

28
NNE
1/4-1/2
0.394 mi.
2079 ft.

TUSTIN NG RIFLE RANGE **RESPONSE** **S109611857**
APPLE TREE DR./COCO PALM DR./ALDER LANE **ENVIROSTOR** **N/A**
TUSTIN, CA 92780

Relative:
Higher

Actual:
64 ft.

RESPONSE:

Name:	TUSTIN NG RIFLE RANGE
Address:	APPLE TREE DR./COCO PALM DR./ALDER LANE
City,State,Zip:	TUSTIN, CA 92780
Facility ID:	80000488
Site Type:	State Response
Site Type Detail:	FUDS
Acres:	699
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Douglas Bautista
Division Branch:	Cleanup Cypress
Site Code:	401367
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	73
Senate:	37
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/25/2010
Restricted Use:	NO
Funding:	DERA
Latitude:	33.69903
Longitude:	-117.7370
APN:	NONE SPECIFIED
Past Use:	FIRING RANGE - SMALL ARMS ETC...
Potential COC :	Explosives (UXO, MEC
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	CA99799F564100
Alias Type:	Federal Facility ID
Alias Name:	J09CA0653
Alias Type:	INPR
Alias Name:	401367
Alias Type:	Project Code (Site Code)
Alias Name:	80000488
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

TUSTIN NG RIFLE RANGE (Continued) **S109611857**

Completed Document Type: Other Report
Completed Date: 10/12/2009
Comments: DTSC received the final TPP memorandum inclusives of DTSC comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 12/15/2009
Comments: December 15, 2009: DTSC received the Final Site Specific Work Plan Addendum to the Programmatic Work Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 06/16/2010
Comments: May 17th, 2010: DTSC sent letter concurring with No Further Department of Defense Action Indicated as recommended in the DRAFT FINAL SITE INSPECTION REPORT FOR THE TUSTIN NATIONAL GUARD RIFLE RANGE, ORANGE COUNTY, CALIFORNIA".

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Name: TUSTIN NG RIFLE RANGE
Address: APPLE TREE DR./COCO PALM DR./ALDER LANE
City,State,Zip: TUSTIN, CA 92780
Facility ID: 80000488
Status: No Further Action
Status Date: 06/25/2010
Site Code: 401367
Site Type: State Response
Site Type Detailed: FUDS
Acres: 699
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 73
Senate: 37
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.69903
Longitude: -117.7370
APN: NONE SPECIFIED
Past Use: FIRING RANGE - SMALL ARMS ETC...

TUSTIN NG RIFLE RANGE (Continued) **S109611857**

Potential COC: Explosives (UXO, MEC
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CA99799F564100
Alias Type: Federal Facility ID
Alias Name: J09CA0653
Alias Type: INPR
Alias Name: 401367
Alias Type: Project Code (Site Code)
Alias Name: 80000488
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/12/2009
Comments: DTSC received the final TPP memorandum inclusives of DTSC comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 12/15/2009
Comments: December 15, 2009: DTSC received the Final Site Specific Work Plan Addendum to the Programmatic Work Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 06/16/2010
Comments: May 17th, 2010: DTSC sent letter concurring with No Further Department of Defense Action Indicated as recommended in the DRAFT FINAL SITE INSPECTION REPORT FOR THE TUSTIN NATIONAL GUARD RIFLE RANGE, ORANGE COUNTY, CALIFORNIA".

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

H29 **NAVAL AIR STATION** **ENVIROSTOR** **S107736826**
SW **N/A**
1/4-1/2 **TUSTIN, CA**
0.449 mi.
2371 ft. **Site 1 of 2 in cluster H**

Relative: ENVIROSTOR:
Lower
Name: NAVAL AIR STATION
Actual: Address: Not reported
54 ft. City,State,Zip: TUSTIN, CA
Facility ID: 80000828
Status: Inactive - Needs Evaluation
Status Date: 08/14/2018

NAVAL AIR STATION (Continued) **S107736826**

Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Patrick Hsieh
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.70555
Longitude:	-117.8277
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F994800
Alias Type:	Federal Facility ID
Alias Name:	J09CA7126
Alias Type:	INPR
Alias Name:	80000828
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	09/29/2017
Comments:	Draft Site visit report on R drive for management review, comment and or concurrence.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	09/27/1999
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

H30 **NAVAL AIR STATION** **FUDS** **1024903901**
SW **N/A**
1/4-1/2 **TUSTIN, CA**
0.452 mi.
2387 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
54 ft.

FUDS:

EPA Region:	09
Installation ID:	CA99799F994800
Congressional District Number:	45
Name:	NAVAL AIR STATION
FUDS Number:	J09CA7126
City:	TUSTIN
State:	CA
County:	ORANGE
Object ID:	9149
USACE Division:	spd
USACE District:	spl
Status:	Properties without projects
Current Owner:	Not reported

EMS Map Link:

Eligibility:	Eligible
Has Projects:	no
NPL Status:	Not on the NPL
Project Required:	no
Feature Description:	Between 19 January 1943 And 2 August 1988, The Navy Acquired A Total Of 1,683.94 Acres From Mr. Frank P. Borchard And The Irvine Company. The Naval Air Station Was Commissioned Initially As A Lighter-Than-Air (Lta) Navy Base To Support Observation Blimps And Personnel Conducting Antisubmarine Patrols Off The Coast Of Southern California During World War Ii. Presently, The Site Is Used As A Marine Corps Helicopter Base That Is In A Transitional Phase For Closure Under The Base Realignment And Closure (Brac) Program. Improvements Consist Of Over 200 Buildings And Facilities Including: Family Housing Units, Barracks, Bachelor Officer Quarters (Boqs), Naval Reserve Armory, Blimp Hangars, Helicopter Landing Pads, Maintenance Facilities, Radio Transmitter Facilities,,Water Treatment Plant, Sewage Pump Plant, Firehouse, Public Works Office, Chapel, Pistol And Skeet Ranges, And Storage For Fuel And Ammunition. The Navy Disposed Of 102.34 Acres Total, Including 36.64 Acres Revested To Mr. Borchard On 11 September 1945, And 65.70 Acres Net, In Four Parcels (1.40 Acres, 2.57 Acres, 3.08 Acres, And 58.65 Acres), Conveyed To The Irvine Company Between 20 January 1981 And 5 August 1988. No Facilities Are Known To Have Been Constructed On The Disposed Properties By The Navy Or The Marine Corps, And These Properties Are Not Known To Have Been Used For Training Activities. The 36.64-Acre Area Is Now Occupied By A Business Park. The 1.40-Acre And 3.08-Acre Parcels Are Undeveloped. The 2.57-Acre Parcel Is Occupied By A Self-Service Storage Facility. The 58.65-Acre Parcel Is Occupied By Commercial Facilities In Various Stages Of Development.
Latitude:	33.70555556
Longitude:	-117.8277778

31
SSW
1/4-1/2
0.488 mi.
2578 ft.

TUSTIN MARINE CORPS AIR STATION
USMC AIR STA
TUSTIN, CA 92780

SEMS **1015730599** **CA9170090022**

Relative:
Lower

Actual:
49 ft.

SEMS:

Site ID:	0902800
EPA ID:	CA9170090022
Name:	TUSTIN MARINE CORPS AIR STATION
Address:	USMC AIR STA
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA 92780
Cong District:	40
FIPS Code:	06059
Latitude:	33.763333
Longitude:	-117.865000
FF:	Y
NPL:	Not on the NPL
Non NPL Status:	Other Cleanup Activity: Federal Facility-Lead Cleanup

SEMS Detail:

Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-08-10 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	1997-08-01 04:00:00
Finish Date:	1997-11-01 05:00:00
Qual:	P
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	LV

TUSTIN MARINE CORPS AIR STATION (Continued) **1015730599**

Action Name:	FF RV
SEQ:	2
Start Date:	1997-05-22 04:00:00
Finish Date:	1997-06-20 04:00:00
Qual:	P
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	1997-08-01 04:00:00
Finish Date:	1997-10-01 04:00:00
Qual:	P
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1988-05-01 04:00:00
Finish Date:	1988-05-01 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	VA
Action Name:	OTHR CLEANUP
SEQ:	1
Start Date:	2008-06-02 05:00:00
Finish Date:	Not reported
Qual:	B
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N

TUSTIN MARINE CORPS AIR STATION (Continued) **1015730599**

FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-04-01 05:00:00
Finish Date:	1986-04-01 05:00:00
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1985-12-01 06:00:00
Finish Date:	1985-12-01 06:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1993-08-31 04:00:00
Finish Date:	1993-08-31 04:00:00
Qual:	H
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	00
Action Code:	OO
Action Name:	SITE REASS
SEQ:	1
Start Date:	2008-06-02 05:00:00
Finish Date:	2008-06-02 05:00:00
Qual:	L
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902800

TUSTIN MARINE CORPS AIR STATION (Continued) **1015730599**

EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1995-08-30 04:00:00
Finish Date:	2004-10-19 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	4
Start Date:	1997-08-01 04:00:00
Finish Date:	1997-11-01 05:00:00
Qual:	P
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	5
Start Date:	1997-05-22 04:00:00
Finish Date:	1997-06-20 04:00:00
Qual:	P
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902800
EPA ID:	CA9170090022
Site Name:	TUSTIN MARINE CORPS AIR STATION
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	6
Start Date:	1997-08-01 04:00:00
Finish Date:	1997-10-01 04:00:00
Qual:	P
Current Action Lead:	Fed Fac

I32 **TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER)** **ENVIROSTOR** **S108054447**
WNW **MCAS TUSTIN** **VCP** **N/A**
1/2-1 **TUSTIN, CA 92710**
0.651 mi.
3438 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
72 ft.

ENVIROSTOR:

Name:	TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER)
Address:	MCAS TUSTIN
City,State,Zip:	TUSTIN, CA 92710
Facility ID:	80001203
Status:	No Further Action
Status Date:	02/13/2020
Site Code:	900252
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Agreement
Acres:	300
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Robert Senga
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Other Non-Military Funds
Latitude:	33.71638
Longitude:	-117.8305
APN:	NONE SPECIFIED
Past Use:	TRANSPORTATION - PIPELINE
Potential COC:	TPH-JET FUEL
Confirmed COC:	TPH-JET FUEL
Potential Description:	SOIL
Alias Name:	South Orange County Community College District
Alias Type:	Alternate Name
Alias Name:	110033605739
Alias Type:	EPA (FRS #)
Alias Name:	T10000000365
Alias Type:	GeoTracker Global ID
Alias Name:	401384
Alias Type:	Project Code (Site Code)
Alias Name:	401485
Alias Type:	Project Code (Site Code)
Alias Name:	401645
Alias Type:	Project Code (Site Code)
Alias Name:	401708
Alias Type:	Project Code (Site Code)
Alias Name:	900252
Alias Type:	Project Code (Site Code)
Alias Name:	80001203
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	09/21/2007

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/21/2011
Comments: This report is submitted by the City of Tustin.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/2007
Comments: There are no comments for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/26/2007
Comments: There are no comments for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/2007
Comments: There are no comments needed for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/2007
Comments: There are no comments for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 12/26/2012
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOCCCD
Completed Document Type: Reimbursement Agreement

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Date: 01/21/2015
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 05/08/2013
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOCCCD
Completed Document Type: Monitoring Plan
Completed Date: 08/19/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2014
Comments: Completed

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 07/11/2013
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/16/2012
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/30/2012
Comments: Completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/23/2013
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/05/2013
Comments: completed the work plan

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Area TRR
Completed Document Type: Technical Workplan
Completed Date: 04/17/2013
Comments: Not reported

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 06/06/2013
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/23/2013
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/25/2009
Comments: Notice of determination is filed with State Clearinghouse

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/25/2009
Comments: TLCP SMP Document is Finalized.

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 05/23/2014
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/08/2013
Comments: After the removal of soil and confirmation sampling is required

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/31/2013
Comments: A final letter is issued noting the conditions

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Date: 06/01/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/01/2009
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/14/2012
Comments: Work Plan is completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 08/29/2013
Comments: Work Plan is completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/31/2012
Comments: Completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/21/2013
Comments: Completed

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/23/2013
Comments: The task is completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 06/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 02/07/2012
Comments: Agreement fully executed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER)
Address: MCAS TUSTIN
City,State,Zip: TUSTIN, CA 92710
Facility ID: 80001203
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Agreement
Site Mgmt. Req.: NONE SPECIFIED
Acres: 300
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: * Robert Senga
Division Branch: Cleanup Cypress
Site Code: 900252
Assembly: 73
Senate: 37
Special Programs Code: Not reported
Status: No Further Action
Status Date: 02/13/2020
Restricted Use: NO
Funding: Other Non-Military Funds
Lat/Long: 33.71638 / -117.8305
APN: NONE SPECIFIED
Past Use: TRANSPORTATION - PIPELINE
Potential COC: 3002501
Confirmed COC: 3002501
Potential Description: SOIL
Alias Name: South Orange County Community College District
Alias Type: Alternate Name
Alias Name: 110033605739
Alias Type: EPA (FRS #)
Alias Name: T10000000365
Alias Type: GeoTracker Global ID
Alias Name: 401384
Alias Type: Project Code (Site Code)
Alias Name: 401485
Alias Type: Project Code (Site Code)
Alias Name: 401645
Alias Type: Project Code (Site Code)
Alias Name: 401708
Alias Type: Project Code (Site Code)
Alias Name: 900252
Alias Type: Project Code (Site Code)
Alias Name: 80001203
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Date: 09/21/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/21/2011
Comments: This report is submitted by the City of Tustin.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/2007
Comments: There are no comments for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/26/2007
Comments: There are no comments for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/2007
Comments: There are no comments needed for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/2007
Comments: There are no comments for this document and this deliverable is considered complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 12/26/2012
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOCCCD

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Document Type: Reimbursement Agreement
Completed Date: 01/21/2015
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 05/08/2013
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOCCCD
Completed Document Type: Monitoring Plan
Completed Date: 08/19/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2014
Comments: Completed

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 07/11/2013
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/16/2012
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/30/2012
Comments: Completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/23/2013
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/05/2013
Comments: completed the work plan

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Area TRR
Completed Document Type: Technical Workplan
Completed Date: 04/17/2013
Comments: Not reported

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 06/06/2013
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/23/2013
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/25/2009
Comments: Notice of determination is filed with State Clearinghouse

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/25/2009
Comments: TLCP SMP Document is Finalized.

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 05/23/2014
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/08/2013
Comments: After the removal of soil and confirmation sampling is required

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/31/2013
Comments: A final letter is issued noting the conditions

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Completed Date: 06/01/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/01/2009
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/14/2012
Comments: Work Plan is completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 08/29/2013
Comments: Work Plan is completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/31/2012
Comments: Completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/21/2013
Comments: Completed

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/23/2013
Comments: The task is completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 06/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 02/07/2012
Comments: Agreement fully executed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

TUSTIN LEGACY COMMUNITY PARTNERS LLC (FORMER) (Continued) **S108054447**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

I33 **TUSTIN MARINE CORPS AIR STATION** **RESPONSE** **S101272797**
WNW **NEWPORT FREEWAY AT EDINGER AVENUE** **ENVIROSTOR** **N/A**
1/2-1 **TUSTIN, CA 92710** **HIST Cal-Sites**
0.664 mi. **DEED**
3508 ft. **Site 2 of 2 in cluster I** **PFAS**
AQUEOUS FOAM
Relative: Higher **HIST CORTESE**

Actual: 72 ft.

RESPONSE:

Name:	TUSTIN MARINE CORPS AIR STATION
Address:	NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip:	TUSTIN, CA 92710
Facility ID:	30970002
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	1600
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 8 - Santa Ana, US EPA
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Michelle Micucci
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Site Code:	401384
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	73
Senate:	37
Special Program Status:	Not reported
Status:	Active
Status Date:	06/01/1986
Restricted Use:	YES
Funding:	BRAC Legacy
Latitude:	33.71638
Longitude:	-117.8308
APN:	NONE SPECIFIED
Past Use:	UNKNOWN, FUEL - VEHICLE STORAGE/ REFUELING, VEHICLE MAINTENANCE, AIRFIELD OPERATIONS, AIRFIELD OPERATIONS, FUEL - VEHICLE STORAGE/ REFUELING, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DEGREASING FACILITY, FUEL - AIRCRAFT STORAGE/ REFUELING, FUEL - VEHICLE STORAGE/ REFUELING, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, JET FUEL STORAGE/REFUELING, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, ABOVE GROUND STORAGE TANKS, FUEL - VEHICLE STORAGE/ REFUELING, OIL/WATER SEPARATORS, RESIDENTIAL AREA, TRANSPORTATION - PIPELINE, UNDERGROUND STORAGE TANKS, RESIDENTIAL AREA, ABOVE GROUND STORAGE TANKS, FUEL - VEHICLE STORAGE/ REFUELING, OIL/WATER SEPARATORS, RESIDENTIAL AREA, ABOVE GROUND STORAGE TANKS, FUEL - VEHICLE STORAGE/ REFUELING, FUEL TERMINALS, OIL/WATER SEPARATORS, UNDERGROUND STORAGE TANKS, ABOVE GROUND STORAGE TANKS, AIRFIELD OPERATIONS, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, LANDFILL - CONSTRUCTION, LANDFILL - DOMESTIC, LANDFILL - HAZARDOUS WASTE, UNDERGROUND STORAGE TANKS, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PAINT/DEPAINT FACILITY, AIRFIELD OPERATIONS, AIRCRAFT MAINTENANCE, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, AIRFIELD OPERATIONS, AIRCRAFT

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

MAINTENANCE, ABOVE GROUND STORAGE TANKS, AGRICULTURAL - LIVESTOCK, AIRCRAFT MAINTENANCE, TRANSPORTATION - PIPELINE, UNDERGROUND STORAGE TANKS, VEHICLE MAINTENANCE, UNKNOWN, FIRE TRAINING AREAS

Potential COC : Arsenic TPH-JET FUEL Trichloroethylene (TCE Lead Polychlorinated biphenyls (PCBs TPH-diesel TPH-gas Methyl tertbutyl ether (MTBE Polynuclear aromatic hydrocarbons (PAHs 1,1,2,2-Tetrachloroethane Vanadium and compounds 1,1-Dichloroethane 1,2,3-Trichloropropane 39105 39106 Asbestos Containing Materials (ACM Dichlorvos Polychlorinated biphenyls (PCBs, see IRIS

Confirmed COC: Arsenic TPH-diesel TPH-gas Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Methyl tertbutyl ether (MTBE TPH-JET FUEL Trichloroethylene (TCE 30025-NO 1,2,3-Trichloropropane 1,1-Dichloroethane Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs, see IRIS 39105 39106

Potential Description: SOIL, OTH, SOIL, SOIL, SOIL, OTH, SOIL, SOIL, OTH, OTH, OTH, SOIL, SV, IA, OTH, SOIL, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, SOIL, SOIL, SOIL, OTH, SOIL, SOIL, OTH, SOIL, SV, IA, CSS, SOIL, OTH, SOIL, SOIL, OTH, SOIL, SV, UE

Alias Name: CA9170090022
Alias Type: EPA Identification Number
Alias Name: 110018968287
Alias Type: EPA (FRS #)
Alias Name: 110033605748
Alias Type: EPA (FRS #)
Alias Name: DOD100391400
Alias Type: GeoTracker Global ID
Alias Name: DOD100391500
Alias Type: GeoTracker Global ID
Alias Name: DOD100391600
Alias Type: GeoTracker Global ID
Alias Name: DOD100391700
Alias Type: GeoTracker Global ID
Alias Name: DOD100393300
Alias Type: GeoTracker Global ID
Alias Name: DOD100393400
Alias Type: GeoTracker Global ID
Alias Name: DOD100393500
Alias Type: GeoTracker Global ID
Alias Name: DOD100393600
Alias Type: GeoTracker Global ID
Alias Name: DOD100395200
Alias Type: GeoTracker Global ID
Alias Name: DOD100395300
Alias Type: GeoTracker Global ID
Alias Name: DOD100395400
Alias Type: GeoTracker Global ID
Alias Name: DOD100395500
Alias Type: GeoTracker Global ID
Alias Name: DOD100395600
Alias Type: GeoTracker Global ID
Alias Name: DOD100397100
Alias Type: GeoTracker Global ID
Alias Name: DOD100397200
Alias Type: GeoTracker Global ID
Alias Name: DOD100397300
Alias Type: GeoTracker Global ID
Alias Name: DOD100397400

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100397500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100399000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100399100
Alias Type:	GeoTracker Global ID
Alias Name:	T0605900821
Alias Type:	GeoTracker Global ID
Alias Name:	T0605900982
Alias Type:	GeoTracker Global ID
Alias Name:	T0605901127
Alias Type:	GeoTracker Global ID
Alias Name:	T0605901133
Alias Type:	GeoTracker Global ID
Alias Name:	T0605901451
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902029
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902116
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902147
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902171
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902174
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902255
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902256
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902257
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902258
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902259
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902269
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902270
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902302
Alias Type:	GeoTracker Global ID
Alias Name:	T0605912367
Alias Type:	GeoTracker Global ID
Alias Name:	T0605913495
Alias Type:	GeoTracker Global ID
Alias Name:	T0605916524
Alias Type:	GeoTracker Global ID
Alias Name:	T0605917443
Alias Type:	GeoTracker Global ID
Alias Name:	T0605924898
Alias Type:	GeoTracker Global ID
Alias Name:	T0605927252
Alias Type:	GeoTracker Global ID
Alias Name:	T0605928561
Alias Type:	GeoTracker Global ID

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Alias Name: T0605929054
Alias Type: GeoTracker Global ID
Alias Name: T0605930603
Alias Type: GeoTracker Global ID
Alias Name: T0605932715
Alias Type: GeoTracker Global ID
Alias Name: T0605941131
Alias Type: GeoTracker Global ID
Alias Name: T0605947657
Alias Type: GeoTracker Global ID
Alias Name: T0605958842
Alias Type: GeoTracker Global ID
Alias Name: T060596014
Alias Type: GeoTracker Global ID
Alias Name: T0605961360
Alias Type: GeoTracker Global ID
Alias Name: T0605969605
Alias Type: GeoTracker Global ID
Alias Name: T0605971046
Alias Type: GeoTracker Global ID
Alias Name: T0605975637
Alias Type: GeoTracker Global ID
Alias Name: T0605979817
Alias Type: GeoTracker Global ID
Alias Name: T0605985348
Alias Type: GeoTracker Global ID
Alias Name: T0605986620
Alias Type: GeoTracker Global ID
Alias Name: T0605993771
Alias Type: GeoTracker Global ID
Alias Name: T0605997510
Alias Type: GeoTracker Global ID
Alias Name: T0605998451
Alias Type: GeoTracker Global ID
Alias Name: P43028
Alias Type: PCode
Alias Name: 400091
Alias Type: Project Code (Site Code)
Alias Name: 401384
Alias Type: Project Code (Site Code)
Alias Name: 30970002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Land Use Restriction
Completed Date: 05/14/2002
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: * CEQA
Completed Date: 11/18/2004
Comments: OU-1A consists of a vehicle maintenance facility and wash pad known as IRP Site 13S. The site includes Buildings 16 and 50, formerly used for vehicle maintenance, and a former wash pad. The buildings and wash pad occupy an area of approximately 3,400 square yards in the

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

northwestern corner of former MCAS Tustin. The lateral extent of the associated 1,2,3-trichloropropane (1,2,3-TCP) groundwater plume is approximately 27 acres. VOCs are the contaminants of concern at IRP-13S. The Navy proposes to remediate soil and groundwater contaminated by hazardous substances at Operable Unit (OU) 1A, Site 13S, which are located on the former Marine Corps Air Station (MCAS) Tustin. DTSC has prepared a revised initial study pursuant to the requirements of the California Environmental Quality Act(CEQA, Section 21000 et.seq., California Public Resources Code) and implementing Guideline (Section 15000 et seq., Title 14, California Code of Regulations). Based upon this analysis, DTSC has determined that the proposed project will not have a significant effect upon the environment and a Negative Declaration was prepared. DTSC approved the CEQA Notice of Determination on November 18, 2004.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 11/18/2004
Comments: OU-1B consists of a paint stripper disposal area known as IRP-3 that occupies approximately 1.4 acres. The site includes seven buildings, several of which were used for chemical storage, painting, and paint stripping operations from 1967 to 1999 when military activities were discontinued. Solvents, paint strippers, battery acids, and water used for washing inactive oil/water separators were reportedly poured directly onto the ground outside some of the buildings. In addition, OU-1B consists of a drum storage area known as IRP-12 occupies a total area of about 3.5 acres. The site was used by the Marine Corps primarily for materials storage and warehouse functions from the mid-1960s to 1975. Solvents, motor oil, and hydraulic fluids were stored in this area. The Navy proposes to remediate soil and groundwater contaminated by hazardous substances at Operable Unit (OU) 1B, Sites 3 and 12, which are located on the former Marine Corps Air Station (MCAS) Tustin. DTSC has prepared a revised initial study pursuant to the requirements of the California Environmental Quality Act(CEQA, Section 21000 et.seq., California Public Resources Code) and implementing Guideline (Section 15000 et seq., Title 14, California Code of Regulations). Based upon this analysis, DTSC has determined that the proposed project will not have a significant effect upon the environment and a Negative Declaration was prepared. DTSC approved the CEQA Notice of Determination on November 18, 2004.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: * CEQA
Completed Date: 08/17/2001
Comments: CEQA - RA1A: An Initial Study and a Negative Declaration were prepared by Department of Toxic Substances Control (DTSC) for a time-critical removal action (TCRA) for IRP site 13S. The TCRA consists of groundwater extraction to hydraulically contain groundwater contaminated with volatile organic compounds (VOCs), principally 1,2,3-TCP. TCRA will eliminate further downgradient migration of contaminated groundwater and prevent vertical migration to the underlying regional aquifer. The extracted groundwater will be treated using granular activated carbon (GAC) and discharged to Peters Canyon Channel through a storm drain or injected back to the aquifer. Discharge to Peters Canyon Channel will comply with the

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

substantive provisions of Regional Water Quality Control Board (RWQCB), Santa Ana Region, Order Number 96-18, General National Pollution Discharge Elimination System (NPDES) Permit Number CAG918001. Discharge will also comply with supplementary RWQCB requirements (e.g. discharge limits for 1,2,3-TCP) that are not included in the General Permit. DTSC has found, on the basis of Initial Study and comments received on the Negative Declaration, that there is no substantial evidence that this project will a significant effect on the environment. The Notice of Determination was forwarded to the Office of Environmental Analysis, Regulations and Audits 17, 2001 for filling.

Completed Area Name: OU-2
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 12/12/2000
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 11/07/1996
Comments: RIFS for Site 13 W - Engineering Evaluation/Cost Analysis for a removal of petroleum and lead contaminated soils at Drum Storage Area No.3 located west of Building 16 (IRP-13W) Removal Action Workplan (RAW) will be prepared to remove petroleum and lead contaminated soils. ‘ RAW for Site 13 W - Removal of petroleum and lead contaminated soils. Disposing of lead contaminated and high level petroleum contaminated soils at proper land fills and treating low level petroleum contaminated at the local thermal desorption unit. A California Environmental Quality Act document was prepared and public noticed along with the RAW. A negative declaration was approved on November 7, 1996. ‘ CEQA for Site 13 W - Prepared California Environmental Quality Act/Negative Declaration document for a removal of petroleum and leadcontaminated soils. Disposing of lead contaminated and high level petroleum contaminated soils at proper landfills and treating low level petroleum contaminated soil at the local thermal desorption unit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Survey
Completed Date: 12/13/2022
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MAE7
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/17/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 05/15/2005
Comments: This document is completed

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/26/2007
Comments: The project is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/28/2007
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 10/02/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 06/26/2003
Comments: OM: This Operation and Maintenance Plan (OMP) presents inspection and maintenance, Long-Term Monitoring (LTM), and contingency plans, including frequency of monitoring and reporting requirements to be used in support of the final remedy selected for OU-3, with the goal of protecting human health and the environment. Detailed descriptions of requirements for conducting fieldwork and data management activities are presented as attachments to this OMP including Land-Use Control Implementation and Certification Plan.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 9PRCL
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/11/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: HNGR2
Completed Document Type: Finding of Suitability to Lease
Completed Date: 05/28/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: HNGR2
Completed Document Type: Environmental Baseline Survey
Completed Date: 05/28/1997
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Feasibility Study Report
Completed Date: 03/24/1999
Comments: Investigation of various AOC located throughout the base by reviewing verious reports and identifying if a hazardous release occurred or not. If this could not be identified by researching the historical data, samples were collected and evaluated. All AOC that were found

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

to be hazardous will be treated under the remedial action process or the removal action process. This PEA was prepared to also satisfy RCRA Facility Assessment (RFA) requirements.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B-93
Completed Document Type: Finding of Suitability to Lease
Completed Date: 07/26/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B-93
Completed Document Type: Environmental Baseline Survey
Completed Date: 07/26/1996
Comments: Not reported

Completed Area Name: 2,9
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 12/17/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: VAR.
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 13W
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 11/07/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/17/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 13W
Completed Document Type: Feasibility Study Report
Completed Date: 07/24/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 12/17/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 12/17/1995
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 16
Completed Document Type: Removal Action Completion Report
Completed Date: 12/17/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-33
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/30/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MCAST
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 04/18/1994
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MCAST
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/14/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 06/21/1993
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MDA-6
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/22/2000
Comments: PEA - MDA-06, AME-05, MAE-06, MWA-01, UST-530B, TOW-X1 & TOW-X8: Under a Resource Conservation and Recovery Act (RCRA) Facility Assessment completed on MCAS Tustin in 1995, the above sites were identified as potentially contaminated sites. Remediation actions were taken at these sites as follows; 1) At Site MDA-06, 1,247 tons of impacted soil were removed, of which 901 tons were impacted with Total Petroleum Hydrocarbons (TPH) and trace pesticides and was transported for McKittrick Waste Management for disposal. The remaining 346 tons were impacted with lead and pesticides and was transported to Chemical Waste Management's Class I treatment, storage and disposal facility. 2) MAE-05 was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample was taken, and was found to contain endrin aldehyde, methylene chloride and bromodichloro- methane with endrin aldehyde above action levels. The site was decontaminated again and endrin aldehyde dropped to acceptable levels. Two drums of paint chips were collected and shipped as non-RCRA hazardous waste to Chemical Waste Management's Facility, and 3,000 gallons of decontamination water were collected in a Baker tank and treated on site at the carbon adsorption treatment unit and properly discharged. 3) MAE-06 was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample that contained calcium , magnesium, sodium and zine was collected;

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

these metals do not pose a risk on human health or the environment. 4) MWA-01 was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample containing below action levels of trihalomethanes, bromodichlor-methane, chloroform, and dibromochloromethane was collected. Rinsate water from the site was treated at the onsite carbon adsorption treatment unit and discharged. 5) At UST-530B, approximately 926 tons of TPH impacted soil were removed and treated at the on-site Thermal Disorption Unit and 65,000 gallons of ground water were removed and treated at the onsite carbon adsorption treatment unit and properly discharged. 7) At TOW-X1, the oil/water separator was removed, and approximately 78 tons of polychlorinated biphenyl (PCB)/pesticide impacted soil were removed and transported to proper treatment and recycling facility. TOW-X8; The oil/water separator was removed and after collection of soil samples it was noted that all samples showed contamination below action levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 08/31/2004
Comments: RIFS - OU4: The shallow groundwater investigation was performed at sites where at least one VOC had been previously reported at concentrations exceeding its maximum contaminant level (MCL). Discrete groundwater samples were collected at 121 locations using HydroPunch sampling techniques and were analyzed for VOCs. Data obtained from the shallow groundwater investigation were used to revise risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NFA. DTSC concurs with this recommendation. RIFS - OU4: The shallow groundwater investigation was performed at sites where at least one VOC had been previously reported at concentrations exceeding its maximum contaminant level (MCL). Discrete groundwater samples were collected at 121 locations using HydroPunch sampling techniques and were analyzed for VOCs. Data obtained from the shallow groundwater investigation were used to revise risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NFA. DTSC concurs with this recommendation. RIFS - OU4: The shallow groundwater investigation was performed at sites where at least one VOC had been previously reported at concentrations exceeding its maximum contaminant level (MCL). Discrete groundwater samples were collected at 121 locations using HydroPunch sampling techniques and were analyzed for VOCs. Data obtained from the shallow groundwater investigation were used to revise risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NFA. DTSC concurs with this recommendation.

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/14/2006
Comments: No comments or letter necessary, report accepted as final.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Operation and Maintenance Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 10/12/2006
Comments: Completed

Completed Area Name: FOST5
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/12/2003
Comments: Based upon DTSC's review of Final FOST #5 DTSC submitted a non-concurrence letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/27/1992
Comments: Conditional approval of Navy's SI Report was granted. Navy performed SI sampling of 9 sites that were recommended for further study in their Initial Assessment Study (IAS). The following sites were recommended for RI in the report: Site 3 - Paint Stripper, Site 5 - Drainage No.1, Site 7 - Rapid Refuel Sta Site 12 - Drum Stg. area No.2, & Site 13 - Drum Stg. area No.3. Site 9 - Hangar No. 1 is recommended for removal & confirmation sampling. Site 15 - Blimp Hangar Disposal does not exist. Although Sites 2 & 8 were recommended NFA, DTSC disagreed because the area had been graded and samples were not taken deep enough to test the original ground.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: VSI
Completed Document Type: Site Screening
Completed Date: 10/17/1991
Comments: A Meeting was held at El Toro MCAS to discuss scheduling of base closure and activities necessary. A Federal Facilities Site Remediation Agreement draft was sent to the base comm- ander. Navy SWDIV decided to negotiate a "blanket" FFSRA to cover all 23 bases in SWDIV.

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/21/2005
Comments: this task is completed

Completed Area Name: FOST4
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 12/04/2002
Comments: FOST - FOST4: DTSC reviewed and commented on the FOST for a portion of Parcel 24. DTSC was unable to concur on the suitability of Parcel 24 for transfer because the portion of Parcel 24, that is the the subject of this FOST, includes buildings where potential releases of lead from lead-based paint were not evaluated. Additionally, MCAS Tustin is a permitted Hazardous Waste Facility under California law and DTSC cannot concur with a FOST until the necessary permit modicication is complete.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: REV
Completed Document Type: Public Participation Plan / Community Relations Plan

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 01/09/2003
Comments: PPP - REV: The CRP describes a comprehensive community relations program being conducted in conjunction with the Installation Restoration Program (IRP) investigation and environmental cleanup activities at the Former MCAS Tustin. The purpose of the CRP is twofold: to identify concerns the community may have regarding cleanup efforts and to determine the best methods for conducting and enhancing communication between the Navy and the local community.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MAW01
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/20/2002
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 10/22/2001
Comments: RAW - TCRA1A: An Action Memorandum/Removal Action Work Plan (AM/ RAW) was prepared to document for the administrative record the Department of Navy's decision to undertake a time-critical removal action (TCRA) to initiate grounwater extraction to hydraulically contain groundwater contaminated with volatile organic compounds (VOCs), principall 1,2,3-TCP. The TCRA will eliminate further downgradient migration of contaminated ground- water and prevent vertical migration to the underlying regional aquifer. The extracted groundwater will be treated using granular activated carbon (GAC) and discharged to Peters Canyou Channel through a storm drain or injected back to the aquifer. Discharge to Peters Canyon Channel will comply with the substantive provisions of Regional Water Quality Control Board (RWQCB), Santa Ana Region, Order Number 96-18, General National Pollution Discharge Elimination System (NPDES) Permit Number CAG918001. Discharge will also comply with supplementary RWQCB requirements (e.g. discharge limits for 1,2,3-TCP) that are not included in the General Permit. DTSC approved the AM/RAW on August 17, 2001.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PCL21
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/19/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PCL35
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/19/2001
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 29A
Completed Document Type: Removal Action Workplan
Completed Date: 12/15/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: Not reported
Completed Document Type: Base / Site Management Plan
Completed Date: 04/14/2005
Comments: This project is completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/02/2007
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Fact Sheets
Completed Date: 07/26/2007
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/26/2007
Comments: The fact sheet is complete.

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/22/2005
Comments: Completeed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/31/2006
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/16/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/29/2006
Comments: No comments made.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/23/2005
Comments: dtsc letter is not required

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/27/2004

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/29/2006
Comments: No comments made. Draft Final not needed.

Completed Area Name: Water Board Lead
Completed Sub Area Name: B-186 Motor Pool Area
Completed Document Type: Removal Action Completion Report
Completed Date: 10/30/2004
Comments: completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 90
Completed Document Type: * Site Closure Report
Completed Date: 01/05/2005
Comments: Completed

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MMS-7
Completed Document Type: * Site Closure Report
Completed Date: 04/06/2005
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/10/2005
Comments: DTSC concurred with the remedial design and remedial action for the OU- 1B soil.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/27/2005
Comments: This document is complete

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA15
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/17/2001
Comments: PEA - MWA15: Analytical results for hand-auger, pothole, and excavation confirmation soil samples from Site MWA-15 were below the target cleanup levels or laboratory reporting limits. These results indicate that soil at this site has not been impacted. Therefore, no further action is required for this site. ‘ PEA - UST89: Analytical results for the confirmation soil sample collected from the bottom floor of the excavation were below the target cleanup level or laboratory reporting limits, indicating that soil at the site has not been impacted. Therefore, no further action is required for this site. ‘ PEA - MAE7: This is a miscellaneous air emission area, consists of two separate areas: Building 273(Test Cell) and Building 231 (Engine Test Area). The activities of PEA included facility decontamination, collection and analysis of rinse water samples, and subsurface woil sampling using a hand auger. Analytical results for

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

the rinse water samples and soil samples and soil samples were below source water (i.e., fire hydrant water) concentrations with the following exceptions: aluminum, barium, iron, molybdenum, selenium, and vanadium, which were below the tap water PRGs; and calcium, magnesium, and potassium, which are common metals for which no PRGs have been established. Soil sample results were below target cleanup levels and laboratory reporting limits, indicating that soils at the site were not impacted. The results of the risk screening assessment indicate that concentrations at Site MAE-07 pose acceptable risk levels. Therefore, no further action is required.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Feasibility Study Report
Completed Date: 09/05/2003
Comments: RIFS - OU1A: The Feasibility Study develops and evaluates potential remedial alternatives to mitigate risks to human health from groundwater, contaminated with volatile organic compounds originated at IRP Site 13S. This FS involved screening technologiesand associated process options according to effectiveness,implementability, and cost. The retained options were assembled into remedial alternatives and then evaluated against regulatory criteria.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST-5A
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2000
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST13A
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/14/2004
Comments: PEA-DSD7: The Site Inspection (SI) report summarizes the results of previous investigations conducted at DSD-07. Based on the delineation results, DSD-07 does not appear to be the source of trichloroethylene (TCE) contamination in the area. This is based on the low levels of TCE found in shallow soils directly below the storm drain line to 6 feet below ground surface. The site data do not indicate a release occured directly from DSD-07. Based on the information Navy requested No Further Action (NFA) for the site. DTSC did concur with the NFA recommendation.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MAW7
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/06/2001
Comments: PEA - MAW7 : Sites MAW-7, MAW-8 and MAW-16 each abandoned well was closed according to Orange County Health Care Agency guidelines. Samples were collected from the groundwater that was displaced during

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backfilling of wells MAW-7 & MAW-16 with grout. The samples were analyzed for disposal characterization purposes. A minimal amount of water was produced during the grouting of MAW-8 and, therefore, a sample was not collected. Analytical results for the groundwater samples were below either target cleanup levels or laboratory reporting limits. Because soil samples were not collected from Sites MAW-7, MAW-8 and MAW-16, a risk screening assessment was not required.
Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST35
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/22/2001
Comments: PEA : Facility decontamination and subsurface sampling was conducted at eight sites. Excavation of impacted soil was performed at Sites ST-36, ST-51, and ST-88. The contaminated soil was treated in a thermal desorption unit (TDU)located on site. In the no-Landscaped excavated areas, non-impacted over- burden and treated soil was used as backfill material. The excavation was compacted to greater than 90 percent relative compaction to surface grade. In the landscaped excavation areas or areas scheduled for demolition, no compaction testing was performed. ‘ ST-35, ST-89, ST-90 and ST-91 - Analytical results for rinse water and soil boring samples support no further action. ‘ ST-36 and ST-51 - Analytical results for soil boring and confir- mation soil samples support no further action ‘ ST-72A - Results of the screening risk assessment indicate that the concentrations at ST-72A pose acceptable risk levels and support no further action. ‘ ST-88 - The analytical results for the rinse water samples and the deeper soil sample results support no further action. However, the shallow hot spot areas with elevated concentrations of arsenic(as identified at ST-86, ST-88, and MAE-03) will be addressed as a separate arsenic AOC report.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST18B
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/01/2001
Comments: PEA - SITE 18B: In 1995, a Resource Conservation and Recovery Act (RCRA) FacilityAssessment was completed for MCAF Tustin. Site 18B was identified as potentially contaminated site. Hand augar samples were collected and contaminated soil was excavated. The results of the screening risk asssessment showed acceptable levels and support no further action.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA10
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/2001
Comments: PEA - MWA10: The contaminated soil was treated in a thermal desorption unit (TDU) located on site. In the non-landscaped excavated areas, non-impacted overburden and treated soil was used as backfill material. The excavation was compacted to greater than 90 percent relative compaction to surface grade. In the landscaped excavation areas, no compaction testing was performed. Analytical results for the rinse water samples, soil samples, and excavation samples collected at the site was below source water concentrations (collected from local fire hydrants), target cleanup levels, or

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

laboratory reporting limits. These results indicate that impacted soil at the site was removed. In addition, the results of the screening risk assessment support no further action.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: LPL
Completed Document Type: Finding of Suitability to Lease
Completed Date: 06/26/2000
Comments: PEA - ST-5A, ST-12, ST-22, ST-37B, ST-39, ST-42, ST-45: 1.) ST-5A and ST-12: The concrete pads were decontaminated and samples collected from the rinse water were below action levels. Soilsamples were taken and results were also below action levels. 2.) ST-22: Soil samples were collected and results were below action levels. 3.) ST-37B: Results from soil samples triggered an excavation (approximately 129 tons) of TPH-impacted soil. The soil was treated at an on-site thermal desorption unit (TDU). confirmation sampling indicated that all TPH-impacted soil had been removed. 4.) ST-39 and ST-45: Results from soil samples triggered an excavation(approximately 22.3 tons and 27 tons) from ST-39 and ST-45 respectively of PAH-impacted soil. The soil was treated at an on-site thermal desorption unit (TDU). confirmation sampling indicated that all PAH-impacted soil had been removed. 5.) ST-42: The concrete building was decontaminated and samples collected from the rinse water were below action levels. Soil samples were taken and results were also below action levels. ‘ PEA - ST-13A, ST-13B, ST-18A, ST-26A, ST-34A, ST-46, ST-55, ST-60A, and ST-80: Facility decontamination was conducted at Sites ST-13A, ST-18A, ST-26A, ST-34A, ST-46, ST-55 and ST-56. A rinse water sample was taken and analyzed for each of the above sites.Soil sampling was also conducted for each of these sites. Based on the results of the screening risk assessment, the concentrations at sites ST-13A ST-13B, ST-18A, ST-26A, ST-34A and ST-56 pose acceptable risk levels. ‘ Soil sample results for ST-46 and ST-55 indicated that excavation was required. All confirmation sample results for ST-46 and ST- 55 were below target cleanup levels and the results of the screening risk assessment indicate that concentrations at these two sites pose acceptable risk levels. ‘ Decontamination activities at ST-60A and ST-80 were not necessary because the sites were located on asphalt. The analytical results for soil samples from ST-60A and ST-80 were below target cleanup levels. The results of the screening risk assessment indicate that concentrations at ST-60A and ST-80 pose acceptable risk levels.

Completed Area Name: OU-2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 12/12/2000
Comments: RAP - OU2: No action is the selected remedy for the three IRP sites and nine AOCs. In selecting the no action remedy for these sites/AOCs, it was determined that the existing condition of the sites/AOCs is protective of human health and the environment. ‘ CEQA - OU2: A Notice of Exemption (NOE) for the OU-2 No Action Remedial Action Plan (RAP) was filed with the State Clearinghouse on Sepember 28, 2000. DTSC found the project the project to be exempt under Title 14 California Code of Regulations (CCR), Section 15061(b)(3) based on the following: DTSC in conjunction with the RWQCB, U.S. EPA and DON, determined that no further remedial action is necessary to ensure the protection of human health and the environment at sites IRP-2,

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

IRP-13E and AOCs AD-04, AS-06, AS-08, AST-02, AST-04, MDA-04, MDA-07, MMS-01, and MWA-03. This determination was based upon extensive field investigations, laboratory analyses, and a through assessment of potential human health risk assessments at each specific location. The results of the human health risk assessment at these sites/AOCs do not present an unacceptable risk to human health or the environment. Therefore, since DTSC has determined that there is no possibility that the project may have a significant effect on the environment, the activity is not subject to CEQA.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST-7
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/03/2000
Comments: PEA - ST-7, ST-8, ST-21C, ST-21D, ST-21E, ST-21F, ST-79, and ST- 82: Under a Resource Conservation and Recovery Act (RCRA) Facility Assessment completed on MCAS Tustin in 1995, the above sites were identified as potentially contaminated sites. Investigation and cleanup work was conducted under the RCRA Stabilization as required by the RCRA Permit. The Regional Water quality Control Board provided oversight of cleanup of petroleum contamination. DTSC's Office of Military Facilities provided oversight of removal and remediation of hazardous material contamination and reviewed the final closure reports for the above sites in accordance with the RCRA and Comprehensive Environmental Recovery Compensation and Liability Act (CERCLA) quidelines, and pursuant to the Federal Facilities Site Remediation Agreement (FFSRA), signed on 8/18/1999. Remedial actions were taken at these sites as follows: 1) At Sites ST-7, ST-21D and ST-82 the concrete slab was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample was taken and tested for metal and chlorinated solvents. In addition, soil samples were taken and analyzed for the same chemicals. Levels found where below action level. However rinse water was still collectedand treated in the onsite thermal desorption unit (TDU) before being discharged into the sanitary sewer. 2) At Site ST-8, soil samples where taken and analyzed for TPH-extractable, Solvents, PCBs, and metals. All samples were below PRGs. 3) At ST-21C, soil and groundwater samples where taken and screened for solvents, metals and petroleum. Methyl-Tertiary- Butyl-Ether MTBE was detected in the soil above action level. Impacted soil was removed and treated on site at the local TDU, confirmation samples were taken. 4) At ST-21E, soil samples were taken and analyzed for solvents. metals, PCBs, and petroleum. One sample indicated a high hit of benzo(a)pyrene. Impacted soil was removed and treated on site at the local TDU, confirmation samples were taken. 5) At ST-2F the concrete slab was decontaminated using mechani- cal scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample was taken and tested for metals, chlorinated solvents and PCBs. In addition, soil samples were taken and analyzed for the same chemicals. Levels found where below action level. However rinse water was still collected and treated in the onsite thermal desorption unit before being dis- charged into the sanitary sewer. 6) At ST-79, soil samples where taken and analyzed for TPH- extractable, chlorinated Solvents, pesticides, PCBs, and metals. One sample detected contained Aroclor-1260, and dieldrin above action level. Impacted soil was removed and is being stockpilled and will be transported off site for storage.

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Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA-5
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/2000
Comments: PEA - MWA-05, TOW-06, UST-508, MWA-12, TOW-11, UST-251, MWA-13, TOW-12, UST-252: Under a Resource Conservation and Recovery Act (RCRA) Facility Assessment completed on MCAS Tustin in 1995, the above sites were identified as potentially contaminated sites. Remediation actions were taken at these sites as follows; 1) At Site MWA-05, a total of 25 samples were collectedand tested for TPH-extractable. TOW-06 and UST-508 were excavated confirmation samples were taken. Sample results were below action levels. 2) At MWA-12, the concrete pad was decontaminated and final rinsate samples showed no detection of contamination. Risate water was collected and treated on site before being discharged into the channel under the NPDES permit. In addition, soil samples were taken at MWA-12, TOW-11, UST-251 after the removal of the oil/water separator and the assigned Storage tank (UST-251). Samples collected triggered an excavation of 156 tons of TPH impacted soil at UST-251 site. Deeper confirmation samples indicated the removal of the impacted soil which was treated at the onsite Themal Desorption Unit (TDU). 3) For MWA-13 the concrete pad was decontaminated and rinsate samples were taken. Rinsate samples indicated no contamination present, however rinsate water was collected and treated locally before being discharged into Peter Canyon Channel. For TOW-12 and UST-252, The oil/water and the tank were removed. Soil samples taken at both sites triggered an excavation of TPH impacted soil at UST-252. 82 tons of soil were removed and treated at the local TDU.

Completed Area Name: IRP-9
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/26/2000
Comments: IRP 9A: Between July 1997 and September 1997, approximately 676 tons of PAH-contaminated soil and 25 tons of total petroleum hydrocarbon (TPH)-contaminated soil was excavated and treated from IRP-9A Subareas 1 and 2 combined. The contaminated soil was transported to the on-site thermal desorption unit (TDU), treated, and transported back to IRP-9A for use as backfill in the excavation. The removal action at IRP 9A Subarea 2 encompassed the boundaries of two STs: ST-40A and ST-40B. The remaining STs were outside the excavation limits of the removal action. ‘ IRP 9B: Between October 1998 and January 1999, approximately 3788 tons of PAH-contaminated soil from IRP 9B Subarea 1 and 3049 tons of PAH-contaminated soil from IRP 9B Subarea 3 were excavated and treated. The contaminated soil was transported to the on-site thermal desorption unit (TDU), treated, and transported back to IRP-9B for use as backfill in the excavation. The removal action at IRP 9B Subarea 1 encompassed the boundaries of two STs: ST-47A and ST-47B. ‘ Based on the post-removal action human health risk assessment, it was determined that exposure to the remaining soil and residual PAH concentrations at IRP 9A and IRP 9B would result in a human health risk well within the acceptable range for resident children and industrial workers, and at the NCP point of depature for resident adults, as defined by the EPA for unrestricted residential or industrial use.

Completed Area Name: Sites With No Operable Unit

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Completed Sub Area Name: SITE2
Completed Document Type: Removal Action Completion Report
Completed Date: 11/20/1998
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 13W
Completed Document Type: Removal Action Completion Report
Completed Date: 11/20/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: TUST2
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 03/12/1998
Comments: CERFA - TUST2: Subsequent to the April 14, 1994 CERFA concurrence, an additional environmental investigation and evaluation of the MCAS Tustin found additional areas within the base that meets the CERFA uncontaminated criteria in accordance with the amendment to Section 120(h)(4) of CERCLA. These areas included the agricultural land which were evaluated under a pesticide investigation in 1996. The investigation found these areas to contain pesticides at concentrations within or below the statistical range for land of similar use at MCAS Tustin and the levels are not a threat to human health or the environment. Additional areas were also identified based on the Base wide groundwater investigation of 1994. These areas were found to be property upon which no hazardous substances and no petroleum products or their derivatives were known to have been released or disposed of, including no migration of these substances from adjacent areas. These properties are eligible for CERFA concurrence.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRCL3
Completed Document Type: Finding of Suitability to Lease
Completed Date: 01/29/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 03/01/2006
Comments: DTSC letter was signed

Completed Area Name: FOST6
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/17/2004
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Five-Year Review Reports
Completed Date: 11/20/2006
Comments: Not reported

Completed Area Name: Water Board Lead

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Technical Report
Completed Date: 04/23/2007
Comments: Not reported

Completed Area Name: OU-4A
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 12/11/2004
Comments: Not reported

Completed Area Name: OU-4A
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 08/27/2004
Comments: This project is complete

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/12/2007
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 16
Completed Document Type: * Site Closure Report
Completed Date: 08/17/2004
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/24/2004
Comments: This task is completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2010
Comments: The final letter was sent

Completed Area Name: OU-4B
Completed Sub Area Name: MMS-04 (AREA B)
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/21/2011
Comments: Report complete

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 07/08/2010
Comments: Work Plan is approvedvia telephone

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011

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Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 12/14/2010
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2011
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 05/02/2011
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 12/17/2010
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/28/2010
Comments: This is a final document. comments or letter is not necessary

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2010
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 01/10/2012
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/27/2014
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/20/2011
Comments: Data summary report No final letter is required

Completed Area Name: PROJECT WIDE

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/18/1999
Comments: This document is uplodaed Federal Facilities Agreement which was signed on August 18th 1999

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/22/2013
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/30/2011
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 03/27/2012
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 5S(a)
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 01/03/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 06/23/2011
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Ready for Anticipated Use
Completed Date: 09/24/2021
Comments: RAU EI had been met

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 07/01/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/27/2021
Comments: Deed restriction filed with the county

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 07/20/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 07/01/2023
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 10/29/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/17/2009
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/24/2009
Comments: Final revised report was sent by Navy

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/20/2011
Comments: Water bOard is the lead DTSC has already sent the comments. We have no other comments

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/07/2010
Comments: Complete

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2010
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/18/2012
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/28/2010
Comments: This is a final document. comments or letter is not necessary

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/28/2010
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 08/17/2010
Comments: Final. No comments required

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/05/2011
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/27/2010
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 12/08/2008
Comments: Document complete

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2011
Comments: Report Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/29/2012
Comments: No final letter is required

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/29/2012
Comments: NO letter is required

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/17/2010
Comments: Final. No comments required

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 11/30/2010
Comments: Final letter is sent

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/27/2010
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/10/2010
Comments: Data summary report No comments are necessary

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/08/2011
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/28/2010
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/26/2014
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 11/09/2010
Comments: No comments are necessary. Data summary report

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/27/2024
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/26/2023
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Lease
Completed Date: 07/20/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 5S(a)
Completed Document Type: Operation and Maintenance Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 02/04/2022
Comments: Not reported

Completed Area Name: OU1A - Hangar 1 / Bldg 28
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/18/2024
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/05/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/01/1996
Comments: Navy forwarded draft final Background Metals Issue Paper on 12/19/2023 for DTSCs records. No DTSC letter provided. Document accepted as-is.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST18B
Completed Document Type: Finding of Suitability to Lease
Completed Date: 01/01/2000
Comments: Not reported

Completed Area Name: IRP Site 41
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 10/17/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/06/2023
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/13/2015

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/13/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 04/02/2019
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/12/2014
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/27/2010
Comments: Final Report. NO comments were submitted

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/18/2010
Comments: Complete

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/30/2008
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/30/2008
Comments: Not reported

Completed Area Name: OU-4B

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 03/29/2010
Comments: ROD has been signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/23/2005
Comments: This is waterboard lead

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 02/24/2010
Comments: report completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 12/17/2010
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Plan
Completed Date: 09/24/2009
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 09/09/2008
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/18/2008
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/18/2008
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/14/2006
Comments: No letter is required

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/04/2010

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/17/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/30/2008
Comments: No comment

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/24/2009
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/27/2010
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/09/2007
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 06/30/2009
Comments: Work Plan for Installation of GW wells at OU 4B approved.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 10/13/2009
Comments: Not reported

Completed Area Name: OU-1A

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 07/23/2008
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/30/2008
Comments: No comments

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/12/2006
Comments: DTSC reviewed the document. DTSC comments were adequately addressed.

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/02/2009
Comments: Completed the document review

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/01/2008
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 01/27/2009
Comments: No Comment

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/30/2009
Comments: Groundwater Monitoring Report for OU 4B approved.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/12/2008
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/13/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 09/24/2009

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 29A
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/12/2010
Comments: The Report is final and complete

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/17/2009
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/27/2010
Comments: No comments were needed.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Five-Year Review Reports
Completed Date: 01/10/2012
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/07/2009
Comments: Water Board Lead. The document review is completed by DTSC

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/04/2021
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 09/25/2023
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 10/17/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/08/2023
Comments: Not reported

Completed Area Name: OU-1A

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/12/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 09/25/2023
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/01/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 09/10/2021
Comments: Report completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 11/05/2021
Comments: Final Report completed with no comment noted.

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/03/2021
Comments: Report reviewed with no outstanding issues based on draft.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Plan
Completed Date: 03/20/2020
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/01/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/26/2022
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 13W
Completed Document Type: Monitoring Report
Completed Date: 06/20/2023

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 11(Area B)
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/03/2021
Comments: Closure concur with Navy. No further letter needed based on concurrence letter of draft report.

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/15/2022
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/09/2024
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/01/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/24/2023
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/15/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/10/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/20/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 13W
Completed Document Type: Monitoring Report
Completed Date: 05/03/2022
Comments: Navy submitted final report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/21/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/12/2021
Comments: Report reviewed with no comments. Data are consistent with historical trends and recommendations are appropriate.

Completed Area Name: OU-4B
Completed Sub Area Name: 5S(a)
Completed Document Type: Monitoring Report
Completed Date: 09/25/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/18/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2022
Comments: Report received as draft with no comments.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Finding of Suitability for Early Transfer
Completed Date: 08/08/2007
Comments: Completed early transfer

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/24/2015
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/17/2017
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Design/Implementation Workplan
Completed Date: 06/24/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/04/2018
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/22/2016
Comments: RWQCB lead...only petroleum issues

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/24/2015
Comments: completd

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/24/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/13/2015
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/02/2014
Comments: No letter is required Up date document

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-1B
Completed Sub Area Name: 3
Completed Document Type: Other Report
Completed Date: 05/06/2015
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: 3
Completed Document Type: Technical Report
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 06/30/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision - Amendment
Completed Date: 01/16/2015
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/16/2013
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/24/2014
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/29/2016
Comments: none

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/14/2015
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/08/2016
Comments: Site Charac. report needed to be reviewed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/23/2014
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 02/24/2010
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 03/28/2011
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/08/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/20/2016
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/08/2015
Comments: done

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 09/24/2013
Comments: EPA is in charge in approving this document. No DTSC final is needed.

Completed Area Name: OU-4B
Completed Sub Area Name: 11(Area B)
Completed Document Type: Monitoring Report
Completed Date: 08/15/2013
Comments: This report is complete.

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision - Amendment
Completed Date: 02/23/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/24/2015
Comments: letter was sent

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 12/30/2020
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/31/2019
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/20/2021
Comments: Report reviewed with no outstanding issue noted. GW data are within historical trends.

Completed Area Name: 2,9
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 01/03/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/25/2020
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/26/2021
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/24/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Operation and Maintenance Report
Completed Date: 01/04/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Base / Site Management Plan
Completed Date: 12/12/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/16/2021
Comments: Not reported

Completed Area Name: OU3MW
Completed Sub Area Name: IRP-1
Completed Document Type: Monitoring Report
Completed Date: 11/20/2020
Comments: Final Report received and accepted.

Completed Area Name: OU3MW
Completed Sub Area Name: IRP-1
Completed Document Type: Monitoring Report
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: OU-4A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/20/2020
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 08/14/2008
Comments: Land use annual report is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 06/24/2010
Comments: PERF document signed and Complete

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP 24-1b
Completed Document Type: Land Use Restriction
Completed Date: 06/05/2008
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/25/2009
Comments: This complies with land use controls

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/21/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Federal Facility SR Agreement
Completed Date: 08/18/1999
Comments: ORDER(FFSRA) - BASEWIDE: DTSC entered into an enforceable agreement with the United States Navy for the Marine Corps Air Station located in Tustin, California on August 18, 1999. Elsie L. Muncell, the Deputy Assistant Secretary of the Navy (Environment & Safety) and John Scandura, Chief of the Southren California Branch of the Military Facilities, signed the Federal Facilities Site Remediation Agreement(FFSRA). The purpose of the agreement was to ensure that the Navy's corrective action obligations required by the Resource Conservation and Recovery Act (RCRA) permit, are complied with environmental impacts associated with past military activities at the facility are investigated and that the appropriate corrective, removal and/or remedial actions are taken as necessary. The FFSRA provides for DTSC review and approval of a Site Management Plan (SMP), document submittals, and quarterly progress report in accordance with specified deadlines.

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/20/2006
Comments: A land use covenant was recorded on July 20, 2006 that restricts residential, industrial and other use, since it was a former landfill. The Moffett Trenches and Crash Crew Burn Pit was designated as OU-3 and is also known as Installation Restoration Program Site 1. OU-3 is generally bounded to the northeast by the southern edge of Edinger Avenue, to the northwest by the western edge of the access road on the northwest edge of the Jamboree Road roadbed fill (approximately 20 feet west of the landfill gas probes), to the southwest by the toe of the northern concrete support structure for the Jamboree Road overpass above Moffett Drive, and to the southeast by the western edge of the Peters Canyon Channel bottom where it meets the containment remedy wall or western channel bank. The OU-3 Record of Decision/Remedial Action Plan (ROD/RAP) was approved on December 20, 2001and selected a surface cover, containment wall along Peters Canyon Channel; landfill gas, groundwater and surface water monitoring program; land use restrictions; and a contingency plan as the remedial action for OU-3. The ROD/RAP provided that the Covenant must provide for access for Department, the Regional Water Quality Control Board, and other regulatory agencies that have jurisdiction, including any contractor or representative acting at the direction of any such aforementioned entity. The areas of applicability of the restrictions set forth in this Covenant are referred to as the Property and are more particularly described and depicted in Exhibit A and B, respectively.

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Environmental Assessment
Completed Date: 03/29/2010
Comments: State Clearing House received completed document on March 30, 2010

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP 24-1b
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/25/2009
Comments: This report certifies land use controls in compliance

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 03/13/2009
Comments: Annual REport is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 06/23/2011
Comments: Completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: Land Use Restriction
Completed Date: 01/28/2008
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/19/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/27/2024
Comments: Not reported

Completed Area Name: OU1A - Hangar 1 / Bldg 28
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/29/2024
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Meeting
Completed Date: 10/06/2024
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/19/2023
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability for Early Transfer
Completed Date: 09/17/2007
Comments: Governor signed the Early transfer package on September 17, 2007.

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Removal Action Completion Report
Completed Date: 03/10/2006
Comments: Waterboard approved on 2/1/06

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/08/2007
Comments: Report is complete.

Completed Area Name: FOSL3
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/26/2002
Comments: FOSL - FOSL3: DTSC reviewed and commented on the FOSL 3. DTSC concurs with the Navy that the property could be leased in a manner that is protective of human health and the environment with the specified restrictions, conditions and notifications set forth in the FOSL.

Completed Area Name: FOST3
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/22/2002
Comments: FOST - FOST3: DTSC reviewed and commented on the FOST 3 for Parcels 23,29,34,35,36 and portions of 1,16,17,24,27,28,40, and 41 and found parcel 36 and portions of 24 and 41 to be environmentoally suitable for transfer for their intended use. ‘ DTSC is unble to concur with the suitability of Parcels 1 and 17 for transfer. The 1998 MCAS Tustin Specific Plan/Reuse Plan Errata identifies Parcels 1 and 17 as educational/recreational use. As a result, it is possible that the reuse of these parcels could include school sites, meaning kindergarden through grade 12 (elementary, middle and high schools). Additional detail is not provided for Parcel 1 and the Base Realignment and Closure (BRAC) Business Plan 2002 (in review) designates the land use of Parcel 17 as a High School. Pursuant to the California Education Code, section 17210 et seq; a separate and comprehesive environmental review is required for sites where stat funds will be used for property acquisition or school construction. This review process includes an evaluation of whether hazardous materials on the property have been or could be released that would endanger students. Because this separate environmental review has not been conducted for Parcels 1 and 17, DTSC cannot determine if these parcels are suitable for the intended use. ’ DTSC was unable to concur with the suitability of Parcels 23, 29, 34, 35, and portions of Parcels 1, 16, 27, 28, and 40 for transfer. These parcels include buildings/structures where potential releases of lead from lead-based paint (LBP) were not evaluated or where sufficient information was not provided for DTSC to determine if LBP is a potential issue. DTSC considers the presence of exterior LBP that has been released to the

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

soil to pose a potential release to the environment pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Lease
Completed Date: 02/27/2002
Comments: DTSC reviewed and commented on the FOSL for Southern Parcels CO Areas 1,2,3 and 4. DTSC concurs with the Navy that the Southern Parcels CO Areas property is suitable for lease for the purposed intended (commercial/business) subject to the conditions, notifications, and restrictions set forth in the FOSL.

Completed Area Name: FOST2
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/19/2001
Comments: FOST - FOST2: DTSC reviewed and commented on the FOST for Southern Parcels 4 - 8, 10 - 12, 14, 42 and Parcels 25, 26, 30 -33, 37 and Portions of 40 and41 andfound Parcels 3 - 8, 10 - 12, 14, 42 and Parcels 25, 26, 30, 32, 33, 37and Portions 41 to be environmentally suitable for transfer for their intended use. ‘ DTSC was unable to concur on the suitability of Parcel 31 for transfer. The MCAS Tustin Specific Plan/Reuse Plan Errata (City of Tustin 1998) identifies this parcel as future elementary school site. Pursuant to the California Education Code, section 17210 et seq., a separate and comprehensive environmental review is reuired for sites where state funds will be used for property acquisition or school construction. The Education Code requires that DTSC make a determination as to the suitability of the property for school use based on this review. Thereview process includes an evaluation of whether hazardous material on the property have been or could be released that would endanger school students. Because this separate environmental review has not been conducted for Parcel 31 DTSC was unable to determine if these parcel was suitable for use as elementary school sites and, therefore, we did not concur with the Finding of Suitability for this parcel. ‘ In addition, DTSC was unable to concur with the suitability of Parcel 4 and portions of Parcel 40 for transfer. These parcels may have lead based paint (LBP) that has been released to the soil. DTSC maintains that lead in soil from LBP is a Comprehensive Environmental Response, Compensation, and Libablity Act (CERCLA) release to the environment. Building 176 (Parcel No. 4), Buildings 180, 181, 182 (Parcel No. 40), and Structure 237 (Parcel No. 4) were all constructed prior to 1978, the year when lead based paint products were discontinued. Navy did not conduct conduct soil sampling to determine whether soils surrounding these buildings contain concentrations of lead from LBP which may pose a threat to human health and the environment. Until such sampling is performed, DTSC cannot determine whether, pursuant to CERCLA 120(a)(3), all actions havebeen taken at these two parcels to remedy potential releases of lead to the environment from LBP.

Completed Area Name: FOST1
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/27/2001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: FOST - FOST1: DTSC reviewed and commented on the FOST for Parcels 3, 21, 38, 39, and Portions of 40 and found Parcels 3, 38 and portions of 40 to be environmentally suitable for transfer for their intended use as transitional/emergency housing, community park/road and transportation/circulation facilities, respectively. ' DTSC was unable to concur on the suitaility of Parcels 21 and 39 for transfer. The MCAS Tustin Specific Plan/Reuse Plan Errata (City of Tustin 1998) indentifies these parcels as future elementary school sites. Pursuant to the California Education Code, section 17210 et seq., a separate and comprehensive environmental review is required for sites where state funds will be used for property acquisition or school construction. The Education Code requires that DTSC make a determination as to the suitability of the property for school use based on this review. The review process includes an evaluation of whether hazardous materials on th property have been or could be released that would endanger school students. Because this separate environmental review has not been conducted for Parcels 21 and 39 , DTSC was unable to determine if these parcels were suitable for use as elementary school sites and, therefore, we did not concur with the finding of Suitability for these two parcels.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ASAOC
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/04/2002
Comments: Not reported

Completed Area Name: OU-4
Completed Sub Area Name: AS
Completed Document Type: Remedial Action Plan
Completed Date: 06/25/2004
Comments: RAP - ASAOC: The Final Action Memeorandum (AM)/Remedial Action Plan (RAP) addresses a non-time critical removal action for removal of soil contaminated with arsenic at the Arsenic Area of Concern. The contaminated soil will be disposed at permitted off-site facility. The Removal Action for this site is deemed consistent with Division 20, Chapter 6.8, California Health and Safety Code. This removal action will reduce the human risk associted with arsenic contaminated soil.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: S16AB
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/07/2003
Comments: PEA - ST16A&ST16B: The Site Inspection (SI) report summarizes the results of previous investigations conducted at ST 16A and 16B. The Navy found polycyclic aromatic hydrocarbons (PAH) in soils in earlier investigations at these two sites. They completed a removal action of contaminated soils in 1997. Post-removal soil sampling sound some additional contamination with PAH. The subject report documents the Department of the Navy's (DON's) risk screening evaluation at the site and based on the risk estimates recommends a No Further Action (NFA) site closure for ST16A and ST16B. DTSC did not concur with the NFA recommendation.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MOOR5

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/21/2002
Comments: PEA - MOOR Pad 4 and 5 (MOOR5): The preliminary Assessment was performed to evaluate the distribution of polycyclic aromatic hydrocarbons at the Mooring pads, Twenty Seven direct-push soil samples were collected from depths ranging from 6 inches to 18 inches below ground surface at Mooring Pad 4. Five samples were collected at the degraded locations at the Mooring Pad 5. The results of the screening risk assessment indicate that concentrations at the Mooring Pad 4 and 5 are with in the risk management decision reange and pose acceptable risk levels and recommended no further action. DTSC concurs with the recommendation.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/12/2006
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 07/02/1992
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 6
Completed Document Type: Technical Workplan
Completed Date: 10/11/2006
Comments: DTSC reviewed the document. DTSC comments were adequately addressed.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Remedial Action Plan
Completed Date: 12/20/2001
Comments: The ROD/RAP was issued on May 17, 2000 and signed by DTSC on December 18, 2001. The ROD/RAP documents the final selected remedial action for the Moffett Trenches and crash Crew Burn Pits site. The major components of the selected remedial action for OU-3 are institutional controls, groundwater and surface-water monitoring, landfill gas monitoring, inspection and maintenance of the containment wall and cover, maintenance of the French drain system and associated sumps, maintenance of monitoring wells and security features, and periodic reviews. In addition, the land use controls include use restrictions, notification procedures, inspections of physical structures, contingency plans, and five-year reviews.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/19/2005
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/18/2005

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: This document does not require comments

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 27A/B
Completed Document Type: * Site Closure Report
Completed Date: 08/27/2004
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/15/2005
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 03/21/2002
Comments: RIFS - OU1B: IRP Sites 3 and 12. The Feasibility Study (FS) develops and evaluates potntial remedial alternatives to mitigate risks to human health from groundwater, contaminated with volatile organic compounds, principally trichloroethene (TCE), and related organic solvents originated at Sites 3 and 12. This FS involved screening technologies and associated process options according to effectiveness, implementability, and cost. The retained options were assembled into remedial alternatives and then evaluated against regulatory criteria.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/19/2001
Comments: BWEBS - BW: Department of Defense and Department of the Navy policy and guidance documents, along with currently available information generated from on-site investigations, visual inspections, personnel interviews, regulatory records searches, aerial photograph reviews, reviews of data for adjacent properties, and chain-of-title searches, are the basis for this report. This Basewide EBS Report supplements the April 1994 MCAS Tustin EBS for the Community Environmental Response Facilitation Act of 1992 Report and the April 1997 MCAS Tustin EBS for Parcels 6, 8B, 8C, 11A, 33, 38, 39, 41A, and 41B. ‘ CEQA - OU3: DTSC completd a Special Initial Study to evaluate the potential for adverse environmental impact for the Proposed remedial action identified in the Record of Decision/Remedial Action Plan (ROD/RAP). The remedial action includes application of institutional controls, inspection and maintenance of the concrete containment wall and surface cover, monitoring of ground water and surface water, monitoring of landfill gas, maintenance of the french drain system and associated sumps, periodic reviews of monitoring results, and preparation of a contingency plan. Based on the Special Initial Study, a Negative Declaration was prepared pursuant to the provisions of CEQA. The draft Negative Declaration was circulated for a 30-day public review and comment period. DTSC has found, on the basis of the Special Initial Study and comments received on the Negative Declaration, that there is no substantial evidence that the project will have a significant effect on the environment. ‘ PEA - PCL35 and PCL 21: The Department of Navy has a lead-in-soil samplingprogram.

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Its objective, at MCAF Tustin is to evaluate potential lead-based paint hazards in the soil adjacent to the housing units within the housing areas costructed prior to 1978. Lead-based paint on the exterior of the houses could potentially flakeoff of the housing units and impact soil in the yard and also in areas adjacent to the perimeter of the house. A work plan was developed for the evaluation of potential lead-based paint hazards in soil at the former housing areas, one of which is Moffett Meadows (PCL 35) and Tustin Villas (PCL21). The intent of the soil sampling at the housing areas was to determine whether further evaluation was necessary prior to transferring the property for future use. Base on the sampling results, it was determined that no further action was required for lead-based paint in soil at Moffett Meadows or at Tustin Villas.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA03
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/30/2005
Comments: THis is a field work. No reports were done

Completed Area Name: OU-4
Completed Sub Area Name: AS
Completed Document Type: Removal Action Completion Report
Completed Date: 06/23/2005
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/10/2006
Comments: DTSC reviewed the document. DTSC comments were adequately addressed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/30/2005
Comments: Completed for this year

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 10/14/2008
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/14/2006
Comments: Not reported

Completed Area Name: OU-1A

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 13S
Completed Document Type: Removal Action Completion Report
Completed Date: 09/09/2005
Comments: The soil removal action achieved the objective of excavating VOC-contaminated soil in the vadose zone above the cleanup level. The confirmation soil samples indicated that the lateral extent of VOC-contaminated soil above the cleanup goal was removed. The removal of contaminated soil made it possible for the builder to install the utilities at this site.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Remedial Action Plan
Completed Date: 12/02/2004
Comments: The OU-1A ROD/RAP presents the selected remedial action consisting of excavating soil contaminated with volatile organic compound (VOC) from a hot spot area, disposing this soil at a permitted facility, and extracting and treating VOC-contaminated groundwater using a granular activated carbon (GAC) system from a hot spot area and containment wells at site IRP 13S. Hot spot areas are classified as soil and groundwater contamination area that are characterized by the highest concentrations of VOC chemicals. The remediation of soil and groundwater hot spots will expedite the cleanup of groundwater.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 12/02/2004
Comments: The OU-1B ROD/RAP presents the selected remedial action consisting of excavating soil contaminated with volatile organic compound (VOC) from a hot spot area, disposing this soil at a permitted facility, and extracting and treating VOC-contaminated groundwater using a granular activated carbon (GAC) system from a hot spot area and containment wells at site IRP sites 3 and 12. Hot spot areas are classified as soil and groundwater contamination area that are characterized by the highest concentrations of VOC chemicals. The remediation of soil and groundwater hot spots will expedite the cleanup of groundwater.

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/21/2005
Comments: This report is done

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/02/2007
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/21/2005
Comments: This task is completed

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 12/11/2004
Comments: Remedial Action Plan implements a Pump and Treat remedy for VOC contaminated groundwater.

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/27/2004
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Technical Workplan
Completed Date: 08/14/2005
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/24/2007
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/05/2015
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/23/2014
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/16/2016
Comments: HERO review got delayed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/03/2018
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Finding of Suitability to Transfer
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/02/2014
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/26/2014
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/02/2019
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/20/2011
Comments: No comments are necessary

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Five-Year Review Reports
Completed Date: 01/10/2012
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/30/2011
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/27/2012
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/14/2012
Comments: Semi annual submitted as final

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 05/17/2012
Comments: It is a data pakage letter report. No comments were sent

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/08/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 04/23/2013
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/24/2014
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/14/2012
Comments: Semi annual submitted as final

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/17/2012
Comments: It is a data pakage letter report. No comments were sent

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/08/2013
Comments: completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 10/09/2012
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 06/30/2016
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 01/09/2013
Comments: completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Other Report
Completed Date: 07/03/2013
Comments: Water Board is in charge for this document. No DTSC letter was sent

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/16/2013
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 09/30/2015
Comments: completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Other Report
Completed Date: 01/16/2013
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/16/2016
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2015
Comments: done

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/19/2014
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/19/2014
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 06/12/2014
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/16/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/03/2019
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 02/05/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/23/2022
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/25/2020
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 04/24/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 03/02/2018
Comments: Not reported

Future Area Name: Multiple OUs - MULTIPLE SITES
Future Sub Area Name: Not reported
Future Document Type: Feasibility Study Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Future Due Date:	2025
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision w/ESD
Future Due Date:	2026
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2025
Future Area Name:	Multiple OUs - MULTIPLE SITES
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision w/ESD
Future Due Date:	2027
Future Area Name:	IRP Site 41
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation / Feasibility Study
Future Due Date:	2026
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Certification
Schedule Due Date:	12/12/2021
Schedule Revised Date:	11/10/2050
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	12/19/2023
Schedule Revised Date:	05/09/2024

ENVIROSTOR:

Name:	TUSTIN MARINE CORPS AIR STATION
Address:	NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip:	TUSTIN, CA 92710
Facility ID:	30970002
Status:	Active
Status Date:	06/01/1986
Site Code:	401384
Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	1600
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 8 - Santa Ana, US EPA
Lead Agency:	SMBRP
Program Manager:	Michelle Micucci
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	BRAC Legacy
Latitude:	33.71638
Longitude:	-117.8308
APN:	NONE SPECIFIED
Past Use:	UNKNOWN, FUEL - VEHICLE STORAGE/ REFUELING, VEHICLE MAINTENANCE, AIRFIELD OPERATIONS, AIRFIELD OPERATIONS, FUEL - VEHICLE STORAGE/ REFUELING, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DEGREASING

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

FACILITY, FUEL - AIRCRAFT STORAGE/ REFUELING, FUEL - VEHICLE STORAGE/ REFUELING, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, JET FUEL STORAGE/REFUELING, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, ABOVE GROUND STORAGE TANKS, FUEL - VEHICLE STORAGE/ REFUELING, OIL/WATER SEPARATORS, RESIDENTIAL AREA, TRANSPORTATION - PIPELINE, UNDERGROUND STORAGE TANKS, RESIDENTIAL AREA, ABOVE GROUND STORAGE TANKS, FUEL - VEHICLE STORAGE/ REFUELING, OIL/WATER SEPARATORS, RESIDENTIAL AREA, ABOVE GROUND STORAGE TANKS, FUEL - VEHICLE STORAGE/ REFUELING, FUEL TERMINALS, OIL/WATER SEPARATORS, UNDERGROUND STORAGE TANKS, ABOVE GROUND STORAGE TANKS, AIRFIELD OPERATIONS, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, LANDFILL - CONSTRUCTION, LANDFILL - DOMESTIC, LANDFILL - HAZARDOUS WASTE, UNDERGROUND STORAGE TANKS, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PAINT/DEPAINT FACILITY, AIRFIELD OPERATIONS, AIRCRAFT MAINTENANCE, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, AIRFIELD OPERATIONS, AIRCRAFT MAINTENANCE, ABOVE GROUND STORAGE TANKS, AGRICULTURAL - LIVESTOCK, AIRCRAFT MAINTENANCE, TRANSPORTATION - PIPELINE, UNDERGROUND STORAGE TANKS, VEHICLE MAINTENANCE, UNKNOWN, FIRE TRAINING AREAS

Potential COC: Arsenic Arsenic TPH-JET FUEL Trichloroethylene (TCE Lead Polychlorinated biphenyls (PCBs TPH-diesel TPH-gas Methyl tertbutyl ether (MTBE Methyl tertbutyl ether (MTBE Methyl tertbutyl ether (MTBE TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL 1,1,2,2-Tetrachloroethane Vanadium and compounds TPH-diesel TPH-diesel TPH-gas TPH-diesel TPH-gas TPH-diesel TPH-gas TPH-diesel TPH-gas TPH-JET FUEL TPH-diesel TPH-JET FUEL TPH-diesel TPH-JET FUEL Trichloroethylene (TCE TPH-gas TPH-JET FUEL TPH-JET FUEL TPH-JET FUEL Trichloroethylene (TCE Trichloroethylene (TCE Trichloroethylene (TCE Trichloroethylene (TCE Trichloroethylene (TCE 1,1-Dichloroethane Trichloroethylene (TCE 1,2,3-Trichloropropane 1,2,3-Trichloropropane 39105 39106 Asbestos Containing Materials (ACM Asbestos Containing Materials (ACM Lead Asbestos Containing Materials (ACM Lead Methyl tertbutyl ether (MTBE Trichloroethylene (TCE 1,2,3-Trichloropropane Asbestos Containing Materials (ACM Lead Polychlorinated biphenyls (PCBs TPH-JET FUEL Asbestos Containing Materials (ACM Lead Polychlorinated biphenyls (PCBs Dichlorvos Asbestos Containing Materials (ACM Lead TPH-gas TPH-JET FUEL Trichloroethylene (TCE Asbestos Containing Materials (ACM TPH-gas TPH-JET FUEL Polychlorinated biphenyls (PCBs, see IRIS

Confirmed COC: Arsenic TPH-diesel TPH-gas Lead Polychlorinated biphenyls (PCBs TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs Methyl tertbutyl ether (MTBE TPH-diesel TPH-gas Methyl tertbutyl ether (MTBE Arsenic TPH-JET FUEL Trichloroethylene (TCE 30025-NO TPH-diesel TPH-JET FUEL TPH-JET FUEL 1,2,3-Trichloropropane Trichloroethylene (TCE TPH-diesel TPH-gas TPH-JET FUEL Trichloroethylene (TCE 1,1-Dichloroethane Trichloroethylene (TCE Trichloroethylene (TCE Methyl tertbutyl ether (MTBE Lead Methyl tertbutyl ether (MTBE 1,2,3-Trichloropropane Asbestos Containing Materials (ACM Trichloroethylene (TCE TPH-gas Polychlorinated biphenyls (PCBs, see IRIS TPH-JET FUEL Asbestos Containing Materials (ACM TPH-diesel TPH-gas TPH-diesel TPH-JET FUEL Trichloroethylene (TCE TPH-diesel TPH-gas Trichloroethylene (TCE 1,2,3-Trichloropropane Trichloroethylene (TCE Asbestos Containing

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Materials (ACM 39105 39106
Potential Description: SOIL, OTH, SOIL, SOIL, SOIL, OTH, SOIL, SOIL, OTH, OTH, OTH, SOIL, SV, IA, OTH, SOIL, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, SOIL, SOIL, SOIL, OTH, SOIL, SOIL, OTH, SOIL, SV, IA, CSS, SOIL, OTH, SOIL, SOIL, OTH, SOIL, SV, UE
Alias Name: CA9170090022
Alias Type: EPA Identification Number
Alias Name: 110018968287
Alias Type: EPA (FRS #)
Alias Name: 110033605748
Alias Type: EPA (FRS #)
Alias Name: DOD100391400
Alias Type: GeoTracker Global ID
Alias Name: DOD100391500
Alias Type: GeoTracker Global ID
Alias Name: DOD100391600
Alias Type: GeoTracker Global ID
Alias Name: DOD100391700
Alias Type: GeoTracker Global ID
Alias Name: DOD100393300
Alias Type: GeoTracker Global ID
Alias Name: DOD100393400
Alias Type: GeoTracker Global ID
Alias Name: DOD100393500
Alias Type: GeoTracker Global ID
Alias Name: DOD100393600
Alias Type: GeoTracker Global ID
Alias Name: DOD100395200
Alias Type: GeoTracker Global ID
Alias Name: DOD100395300
Alias Type: GeoTracker Global ID
Alias Name: DOD100395400
Alias Type: GeoTracker Global ID
Alias Name: DOD100395500
Alias Type: GeoTracker Global ID
Alias Name: DOD100395600
Alias Type: GeoTracker Global ID
Alias Name: DOD100397100
Alias Type: GeoTracker Global ID
Alias Name: DOD100397200
Alias Type: GeoTracker Global ID
Alias Name: DOD100397300
Alias Type: GeoTracker Global ID
Alias Name: DOD100397400
Alias Type: GeoTracker Global ID
Alias Name: DOD100397500
Alias Type: GeoTracker Global ID
Alias Name: DOD100399000
Alias Type: GeoTracker Global ID
Alias Name: DOD100399100
Alias Type: GeoTracker Global ID
Alias Name: T0605900821
Alias Type: GeoTracker Global ID
Alias Name: T0605900982
Alias Type: GeoTracker Global ID
Alias Name: T0605901127
Alias Type: GeoTracker Global ID

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Alias Name:	T0605901133
Alias Type:	GeoTracker Global ID
Alias Name:	T0605901451
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902029
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902116
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902147
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902171
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902174
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902255
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902256
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902257
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902258
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902259
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902269
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902270
Alias Type:	GeoTracker Global ID
Alias Name:	T0605902302
Alias Type:	GeoTracker Global ID
Alias Name:	T0605912367
Alias Type:	GeoTracker Global ID
Alias Name:	T0605913495
Alias Type:	GeoTracker Global ID
Alias Name:	T0605916524
Alias Type:	GeoTracker Global ID
Alias Name:	T0605917443
Alias Type:	GeoTracker Global ID
Alias Name:	T0605924898
Alias Type:	GeoTracker Global ID
Alias Name:	T0605927252
Alias Type:	GeoTracker Global ID
Alias Name:	T0605928561
Alias Type:	GeoTracker Global ID
Alias Name:	T0605929054
Alias Type:	GeoTracker Global ID
Alias Name:	T0605930603
Alias Type:	GeoTracker Global ID
Alias Name:	T0605932715
Alias Type:	GeoTracker Global ID
Alias Name:	T0605941131
Alias Type:	GeoTracker Global ID
Alias Name:	T0605947657
Alias Type:	GeoTracker Global ID
Alias Name:	T0605958842
Alias Type:	GeoTracker Global ID
Alias Name:	T060596014

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Alias Type:	GeoTracker Global ID
Alias Name:	T0605961360
Alias Type:	GeoTracker Global ID
Alias Name:	T0605969605
Alias Type:	GeoTracker Global ID
Alias Name:	T0605971046
Alias Type:	GeoTracker Global ID
Alias Name:	T0605975637
Alias Type:	GeoTracker Global ID
Alias Name:	T0605979817
Alias Type:	GeoTracker Global ID
Alias Name:	T0605985348
Alias Type:	GeoTracker Global ID
Alias Name:	T0605986620
Alias Type:	GeoTracker Global ID
Alias Name:	T0605993771
Alias Type:	GeoTracker Global ID
Alias Name:	T0605997510
Alias Type:	GeoTracker Global ID
Alias Name:	T0605998451
Alias Type:	GeoTracker Global ID
Alias Name:	P43028
Alias Type:	PCode
Alias Name:	400091
Alias Type:	Project Code (Site Code)
Alias Name:	401384
Alias Type:	Project Code (Site Code)
Alias Name:	30970002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	OU-3
Completed Sub Area Name:	1
Completed Document Type:	Land Use Restriction
Completed Date:	05/14/2002
Comments:	Not reported

Completed Area Name:	OU-1A
Completed Sub Area Name:	13S
Completed Document Type:	* CEQA
Completed Date:	11/18/2004
Comments:	OU-1A consists of a vehicle maintenance facility and wash pad known as IRP Site 13S. The site includes Buildings 16 and 50, formerly used for vehicle maintenance, and a former wash pad. The buildings and wash pad occupy an area of approximately 3,400 square yards in the northwestern corner of former MCAS Tustin. The lateral extent of the associated 1,2,3-trichloropropane (1,2,3-TCP) groundwater plume is approximately 27 acres. VOCs are the contaminants of concern at IRP-13S. The Navy proposes to remediate soil and groundwater contaminated by hazardous substances at Operable Unit (OU) 1A, Site 13S, which are located on the former Marine Corps Air Station (MCAS) Tustin. DTSC has prepared a revised initial study pursuant to the requirements of the California Environmental Quality Act(CEQA, Section 21000 et.seq., California Public Resources Code) and implementing Guideline (Section 15000 et seq., Title 14, California Code of Regulations). Based upon this analysis, DTSC has determined that the proposed project will not have a significant effect upon the environment and a Negative Declaration was prepared. DTSC approved

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

the CEQA Notice of Determination on November 18, 2004.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 11/18/2004
Comments: OU-1B consists of a paint stripper disposal area known as IRP-3 that occupies approximately 1.4 acres. The site includes seven buildings, several of which were used for chemical storage, painting, and paint stripping operations from 1967 to 1999 when military activities were discontinued. Solvents, paint strippers, battery acids, and water used for washing inactive oil/water separators were reportedly poured directly onto the ground outside some of the buildings. In addition, OU-1B consists of a drum storage area known as IRP-12 occupies a total area of about 3.5 acres. The site was used by the Marine Corps primarily for materials storage and warehouse functions from the mid-1960s to 1975. Solvents, motor oil, and hydraulic fluids were stored in this area. The Navy proposes to remediate soil and groundwater contaminated by hazardous substances at Operable Unit (OU) 1B, Sites 3 and 12, which are located on the former Marine Corps Air Station (MCAS) Tustin. DTSC has prepared a revised initial study pursuant to the requirements of the California Environmental Quality Act(CEQA, Section 21000 et.seq., California Public Resources Code) and implementing Guideline (Section 15000 et seq., Title 14, California Code of Regulations). Based upon this analysis, DTSC has determined that the proposed project will not have a significant effect upon the environment and a Negative Declaration was prepared. DTSC approved the CEQA Notice of Determination on November 18, 2004.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: * CEQA
Completed Date: 08/17/2001
Comments: CEQA - RA1A: An Initial Study and a Negative Declaration were prepared by Department of Toxic Substances Control (DTSC) for a time-critical removal action (TCRA) for IRP site 13S. The TCRA consists of groundwater extraction to hydraulically contain groundwater contaminated with volatile organic compounds (VOCs), principally 1,2,3-TCP. TCRA will eliminate further downgradient migration of contaminated groundwater and prevent vertical migration to the underlying regional aquifer. The extracted groundwater will be treated using granular activated carbon (GAC) and discharged to Peters Canyon Channel through a storm drain or injected back to the aquifer. Discharge to Peters Canyon Channel will comply with the substantive provisions of Regional Water Quality Control Board (RWQCB), Santa Ana Region, Order Number 96-18, General National Pollution Discharge Elimination System (NPDES) Permit Number CAG918001. Discharge will also comply with supplementary RWQCB requirements (e.g. discharge limits for 1,2,3-TCP) that are not included in the General Permit. DTSC has found, on the basis of Initial Study and comments received on the Negative Declaration, that there is no substantial evidence that this project will a significant effect on the environment. The Notice of Determination was forwarded to the Office of Environmental Analysis, Regulations and Audits 17, 2001 for filling.

Completed Area Name: OU-2

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 12/12/2000
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 11/07/1996
Comments: RIFS for Site 13 W - Engineering Evaluation/Cost Analysis for a removal of petroleum and lead contaminated soils at Drum Storage Area No.3 located west of Building 16 (IRP-13W) Removal Action Workplan (RAW) will be prepared to remove petroleum and lead contaminated soils. ' RAW for Site 13 W - Removal of petroleum and lead contaminated soils. Disposing of lead contaminated and high level petroleum contaminated soils at proper land fills and treating low level petroleum contaminated at the local thermal desorption unit. A California Environmental Quality Act document was prepared and public noticed along with the RAW. A negative declaration was approved on November 7, 1996. ' CEQA for Site 13 W - Prepared California Environmental Quality Act/Negative Declaration document for a removal of petroleum and leadcontaminated soils. Disposing of lead contaminated and high level petroleum contaminated soils at proper landfills and treating low level petroleum contaminated soil at the local thermal desorption unit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Survey
Completed Date: 12/13/2022
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MAE7
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/17/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 05/15/2005
Comments: This document is completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/26/2007
Comments: The project is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/28/2007
Comments: Not reported

Completed Area Name: OU-3

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 10/02/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 06/26/2003
Comments: OM: This Operation and Maintenance Plan (OMP) presents inspection and maintenance, Long-Term Monitoring (LTM), and contingency plans, including frequency of monitoring and reporting requirements to be used in support of the final remedy selected for OU-3, with the goal of protecting human health and the environment. Detailed descriptions of requirements for conducting fieldwork and data management activities are presented as attachments to this OMP including Land-Use Control Implementation and Certification Plan.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 9PRCL
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/11/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: HNGR2
Completed Document Type: Finding of Suitability to Lease
Completed Date: 05/28/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: HNGR2
Completed Document Type: Environmental Baseline Survey
Completed Date: 05/28/1997
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Feasibility Study Report
Completed Date: 03/24/1999
Comments: Investigation of various AOC located throughout the base by reviewing verious reports and identifying if a hazardous release occurred or not. If this could not be identified by researching the historical data, samples were collected and evaluated. All AOC that were found to be hazardous will be treated under the remedial action process or the removal action process. This PEA was prepared to also satisfy RCRA Facility Assessment (RFA) requirements.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B-93
Completed Document Type: Finding of Suitability to Lease
Completed Date: 07/26/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B-93
Completed Document Type: Environmental Baseline Survey

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 07/26/1996
Comments: Not reported

Completed Area Name: 2,9
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 12/17/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: VAR.
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 13W
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 11/07/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/17/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 13W
Completed Document Type: Feasibility Study Report
Completed Date: 07/24/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 12/17/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 12/17/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 16
Completed Document Type: Removal Action Completion Report
Completed Date: 12/17/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-33
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/30/1995
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MCAST
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 04/18/1994
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MCAST
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/14/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 06/21/1993
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MDA-6
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/22/2000
Comments: PEA - MDA-06, AME-05, MAE-06, MWA-01, UST-530B, TOW-X1 & TOW-X8: Under a Resource Conservation and Recovery Act (RCRA) Facility Assessment completed on MCAS Tustin in 1995, the above sites were identified as potentially contaminated sites. Remediation actions were taken at these sites as follows; 1) At Site MDA-06, 1,247 tons of impacted soil were removed, of which 901 tons were impacted with Total Petroleum Hydrocarbons (TPH) and trace pesticides and was transported for McKittrick Waste Management for disposal. The remaining 346 tons were impacted with lead and pesticides and was transported to Chemical Waste Management's Class I treatment, storage and disposal facility. 2) MAE-05 was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample was taken, and was found to contain endrin aldehyde, methylene chloride and bromodichloro- methane with endrin aldehyde above action levels. The site was decontaminated again and endrin aldehyde dropped to acceptable levels. Two drums of paint chips were collected and shipped as non-RCRA hazardous waste to Chemical Waste Management's Facility, and 3,000 gallons of decontamination water were collected in a Baker tank and treated on site at the carbon adsorption treatment unit and properly discharged. 3) MAE-06 was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample that contained calcium , magnesium, sodium and zine was collected; these metals do not pose a risk on human health or the environment. 4) MWA-01 was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample containing below action levels of trihalomethanes, bromodichlor-methane, chloroform, and dibromochloromethane was collected. Rinsate water from the site was treated at the onsite carbon adsorption treatment unit and discharged. 5) At UST-530B, approximately 926 tons of TPH impacted soil were removed and treated at the on-site Thermal Disorption Unit and 65,000 gallons of ground water were removed and treated at the onsite carbon adsorption treatment unit and properly discharged. 7) At TOW-X1, the oil/water separator was removed, and approximately 78 tons of polychlorinated biphenyl (PCB)/pesticide

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

impacted soil were removed and transported to proper treatment and recycling facility. TOW-X8; The oil/water separator was removed and after collection of soil samples it was noted that all samples showed contamination below action levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 08/31/2004
Comments: RIFS - OU4: The shallow groundwater investigation was performed at sites where at least one VOC had been previously reported at concentrations exceeding its maximum contaminant level (MCL). Discrete groundwater samples were collected at 121 locations using HydroPunch sampling techniques and were analyzed for VOCs. Data obtained from the shallow groundwater investigation were used to revise risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NFA. DTSC concurs with this recommendation. RIFS - OU4: The shallow groundwater investigation was performed at sites where at least one VOC had been previously reported at concentrations exceeding its maximum contaminant level (MCL). Discrete groundwater samples were collected at 121 locations using HydroPunch sampling techniques and were analyzed for VOCs. Data obtained from the shallow groundwater investigation were used to revise risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NFA. DTSC concurs with this recommendation. RIFS - OU4: The shallow groundwater investigation was performed at sites where at least one VOC had been previously reported at concentrations exceeding its maximum contaminant level (MCL). Discrete groundwater samples were collected at 121 locations using HydroPunch sampling techniques and were analyzed for VOCs. Data obtained from the shallow groundwater investigation were used to revise risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NFA. DTSC concurs with this recommendation.

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/14/2006
Comments: No comments or letter necessary, report accepted as final.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/12/2006
Comments: Completed

Completed Area Name: FOST5
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/12/2003
Comments: Based upon DTSC’s review of Final FOST #5 DTSC submitted a non-concurrence letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/27/1992
Comments: Conditional approval of Navy's SI Report was granted. Navy performed SI sampling of 9 sites that were recommended for further study in their Initial Assessment Study (IAS). The following sites were recommended for RI in the report: Site 3 - Paint Stripper, Site 5 - Drainage No.1, Site 7 - Rapid Refuel Sta Site 12 - Drum Stg. area No.2, & Site 13 - Drum Stg. area No.3. Site 9 - Hangar No. 1 is recommended for removal & confirmation sampling. Site 15 - Blimp Hangar Disposal does not exist. Although Sites 2 & 8 were recommended NFA, DTSC disagreed because the area had been graded and samples were not taken deep enough to test the original ground.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: VSI
Completed Document Type: Site Screening
Completed Date: 10/17/1991
Comments: A Meeting was held at El Toro MCAS to discuss scheduling of base closure and activities necessary. A Federal Facilities Site Remediation Agreement draft was sent to the base comm- ander. Navy SWDIV decided to negotiate a "blanket" FFSRA to cover all 23 bases in SWDIV.

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/21/2005
Comments: this task is completed

Completed Area Name: FOST4
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 12/04/2002
Comments: FOST - FOST4: DTSC reviewed and commented on the FOST for a portion of Parcel 24. DTSC was unable to concur on the suitability of Parcel 24 for transfer because the portion of Parcel 24, that is the the subject of this FOST, includes buildings where potential releases of lead from lead-based paint were not evaluated. Additionally, MCAS Tustin is a permitted Hazardous Waste Facility under California law and DTSC cannot concur with a FOST until the necessary permit modicication is complete.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: REV
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 01/09/2003
Comments: PPP - REV: The CRP describes a comprehensive community relations program being conducted in conjunction with the Installation Restoration Program (IRP) investigation and environmental cleanup activities at the Former MCAS Tustin. The purpose of the CRP is twofold: to identify concerns the community may have regarding cleanup efforts and to determine the best methods for conducting and enhancing communication between the Navy and the local community.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MAW01
Completed Document Type: Preliminary Endangerment Assessment Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 05/20/2002
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 10/22/2001
Comments: RAW - TCRA1A: An Action Memorandum/Removal Action Work Plan (AM/ RAW) was prepared to document for the administrative record the Department of Navy's decision to undertake a time-critical removal action (TCRA) to initiate grounwater extraction to hydraulically contain groundwater contaminated with volatile organic compounds (VOCs), principall 1,2,3-TCP. The TCRA will eliminate further downgradient migration of contaminated ground- water and prevent vertical migration to the underlying regional aquifer. The extracted groundwater will be treated using granular activated carbon (GAC) and discharged to Peters Canyou Channel through a storm drain or injected back to the aquifer. Discharge to Peters Canyon Channel will comply with the substantive provisions of Regional Water Quality Control Board (RWQCB), Santa Ana Region, Order Number 96-18, General National Pollution Discharge Elimination System (NPDES) Permit Number CAG918001. Discharge will also comply with supplementary RWQCB requirements (e.g. discharge limits for 1,2,3-TCP) that are not included in the General Permit. DTSC approved the AM/RAW on August 17, 2001.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PCL21
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/19/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PCL35
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/19/2001
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 29A
Completed Document Type: Removal Action Workplan
Completed Date: 12/15/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Base / Site Management Plan
Completed Date: 04/14/2005
Comments: This project is completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/02/2007
Comments: Not reported

Completed Area Name: OU-1A

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 13S
Completed Document Type: Fact Sheets
Completed Date: 07/26/2007
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/26/2007
Comments: The fact sheet is complete.

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/22/2005
Comments: Completeed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/31/2006
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/16/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/29/2006
Comments: No comments made.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/23/2005
Comments: dtsc letter is not required

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/27/2004
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/29/2006
Comments: No comments made. Draft Final not needed.

Completed Area Name: Water Board Lead
Completed Sub Area Name: B-186 Motor Pool Area
Completed Document Type: Removal Action Completion Report
Completed Date: 10/30/2004

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	completed
Completed Area Name:	Water Board Lead
Completed Sub Area Name:	UST 90
Completed Document Type:	* Site Closure Report
Completed Date:	01/05/2005
Comments:	Completed
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	MMS-7
Completed Document Type:	* Site Closure Report
Completed Date:	04/06/2005
Comments:	Completed
Completed Area Name:	OU-1B
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	07/10/2005
Comments:	DTSC concurred with the remedial design and remedial action for the OU- 1B soil.
Completed Area Name:	OU-1B
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	04/27/2005
Comments:	This document is complete
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	MWA15
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/17/2001
Comments:	PEA - MWA15: Analytical results for hand-auger, pothole, and excavation confirmation soil samples from Site MWA-15 were below the target cleanup levels or laboratory reporting limits. These results indicate that soil at this site has not been impacted. Therefore, no further action is required for this site. ‘ PEA - UST89: Analytical results for the confirmation soil sample collected from the bottom floor of the excavation were below the target cleanup level or laboratory reporting limits, indicating that soil at the site has not been impacted. Therefore, no further action is required for this site. ‘ PEA - MAE7: This is a miscellaneous air emission area, consists of two separate areas: Building 273(Test Cell) and Building 231 (Engine Test Area). The activities of PEA included facility decontamination, collection and analysis of rinse water samples, and subsurface woil sampling using a hand auger. Analytical results for the rinse water samples and soil samples and soil samples were below source water (i.e., fire hydrant water) concentrations with the following exceptions: aluminum, barium, iron, molybdenum, selenium, and vanadium, which were below the tap water PRGs; and calcium, magnesium, and potassium, which are common metals for which no PRGs have been established. Soil sample results were below target cleanup levels and laboratory reporting limits, indicating that soils at the site were not impacted. The results of the risk screening assessment indicate that concentrations at Site MAE-07 pose acceptable risk levels. Therefore, no further action is required.
Completed Area Name:	OU-1A

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 13S
Completed Document Type: Feasibility Study Report
Completed Date: 09/05/2003
Comments: RIFS - OU1A: The Feasibility Study develops and evaluates potential remedial alternatives to mitigate risks to human health from groundwater, contaminated with volatile organic compounds originated at IRP Site 13S. This FS involved screening technologiesand associated process options according to effectiveness,implementability, and cost. The retained options were assembled into remedial alternatives and then evaluated against regulatory criteria.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST-5A
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2000
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST13A
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/14/2004
Comments: PEA-DSD7: The Site Inspection (SI) report summarizes the results of previous investigations conducted at DSD-07. Based on the delineation results, DSD-07 does not appear to be the source of trichloroethylene (TCE) contamination in the area. This is based on the low levels of TCE found in shallow soils directly below the storm drain line to 6 feet below ground surface. The site data do not indicate a release occured directly from DSD-07. Based on the information Navy requested No Further Action (NFA) for the site. DTSC did concur with the NFA recommendation.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MAW7
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/06/2001
Comments: PEA - MAW7 : Sites MAW-7, MAW-8 and MAW-16 each abandoned well was closed according to Orange County Health Care Agency guidelines. Samples were collected from the groundwater that was displaced during backfilling of wells MAW-7 & MAW-16 with grout. The samples were analyzed for disposal characterization purposes. A minimal amount of water was produced during the grouting of MAW-8 and, therefore, a sample was not collected. Analytical results for the groundwater samples were below either target cleanup levels or laboratory reporting limits. Because soil samples were not collected from Sites MAW-7, MAW-8 and MAW-16, a risk screening assessment was not required. Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST35
Completed Document Type: Preliminary Endangerment Assessment Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 05/22/2001
Comments: PEA : Facility decontamination and subsurface sampling was conducted at eight sites. Excavation of impacted soil was performed at Sites ST-36, ST-51, and ST-88. The contaminated soil was treated in a thermal desorption unit (TDU)located on site. In the no-Landscaped excavated areas, non-impacted over- burden and treated soil was used as backfill material. The excavation was compacted to greater than 90 percent relative compaction to surface grade. In the landscaped excavation areas or areas scheduled for demolition, no compaction testing was performed. ' ST-35, ST-89, ST-90 and ST-91 - Analytical results for rinse water and soil boring samples support no further action. ' ST-36 and ST-51 - Analytical results for soil boring and confir- mation soil samples support no further action ' ST-72A - Results of the screening risk assessment indicate that the concentrations at ST-72A pose acceptable risk levels and support no further action. ' ST-88 - The analytical results for the rinse water samples and the deeper soil sample results support no further action. However, the shallow hot spot areas with elevated concentrations of arsenic(as identified at ST-86, ST-88, and MAE-03) will be addressed as a separate arsenic AOC report.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST18B
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/01/2001
Comments: PEA - SITE 18B: In 1995, a Resource Conservation and Recovery Act (RCRA) FacilityAssessment was completed for MCAF Tustin. Site 18B was identified as potentially contaminated site. Hand augar samples were collected and contaminated soil was excavated. The results of the screening risk asssessment showed acceptable levels and support no further action.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA10
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/2001
Comments: PEA - MWA10: The contaminated soil was treated in a thermal desorption unit (TDU) located on site. In the non-landscaped excavated areas, non-impacted overburden and treated soil was used as backfill material. The excavation was compacted to greater than 90 percent relative compaction to surface grade. In the landscaped excavation areas, no compaction testing was performed. Analytical results for the rinse water samples, soil samples, and excavation samples collected at the site was below source water concentrations (collected from local fire hydrants), target cleanup levels, or laboratory reporting limits. These results indicate that impacted soil at the site was removed. In addition, the results of the screening risk assessment support no further action.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: LPL
Completed Document Type: Finding of Suitability to Lease
Completed Date: 06/26/2000
Comments: PEA - ST-5A, ST-12, ST-22, ST-37B, ST-39, ST-42, ST-45: 1.) ST-5A and ST-12: The concrete pads were decontaminated and samples collected from the rinse water were below action levels. Soilsamples were taken and results were also below action levels. 2.) ST-22: Soil samples

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

were collected and results were below action levels. 3.) ST-37B: Results from soil samples triggered an excavation (approximately 129 tons) of TPH-impacted soil. The soil was treated at an on-site thermal desorption unit (TDU). confirmation sampling indicated that all TPH-impacted soil had been removed. 4.) ST-39 and ST-45: Results from soil samples triggered an excavation(approximately 22.3 tons and 27 tons) from ST-39 and ST-45 respectively of PAH-impacted soil. The soil was treated at an on-site thermal desorption unit (TDU). confirmation sampling indicated that all PAH-impacted soil had been removed. 5.) ST-42: The concrete building was decontaminated and samples collected from the rinse water were below action levels. Soil samples were taken and results were also below action levels. ‘ PEA - ST-13A, ST-13B, ST-18A, ST-26A, ST-34A, ST-46, ST-55, ST-60A, and ST-80: Facility decontamination was conducted at Sites ST-13A, ST-18A, ST-26A, ST-34A, ST-46, ST-55 and ST-56. A rinse water sample was taken and analyzed for each of the above sites.Soil sampling was also conducted for each of these sites. Based on the results of the screening risk assessment, the concentrations at sites ST-13A ST-13B, ST-18A, ST-26A, ST-34A and ST-56 pose acceptable risk levels. ‘ Soil sample results for ST-46 and ST-55 indicated that excavation was required. All confirmation sample results for ST-46 and ST- 55 were below target cleanup levels and the results of the screening risk assessment indicate that concentrations at these two sites pose acceptable risk levels. ‘ Decontamination activities at ST-60A and ST-80 were not necessary because the sites were located on asphalt. The analytical results for soil samples from ST-60A and ST-80 were below target cleanup levels. The results of the screening risk assessment indicate that concentrations at ST-60A and ST-80 pose acceptable risk levels.

Completed Area Name: OU-2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 12/12/2000
Comments: RAP - OU2: No action is the selected remedy for the three IRP sites and nine AOCs. In selecting the no action remedy for these sites/AOCs, it was determined that the existing condition of the sites/AOCs is protective of human health and the environment. ‘ CEQA - OU2: A Notice of Exemption (NOE) for the OU-2 No Action Remedial Action Plan (RAP) was filed with the State Clearinghouse on Sepember 28, 2000. DTSC found the project the project to be exempt under Title 14 California Code of Regulations (CCR), Section 15061(b)(3) based on the following: DTSC in conjunction with the RWQCB, U.S. EPA and DON, determined that no further remedial action is necessary to ensure the protection of human health and the environment at sites IRP-2, IRP-13E and AOCs AD-04, AS-06, AS-08, AST-02, AST-04, MDA-04, MDA-07, MMS-01, and MWA-03. This determination was based upon extensive field investigations, laboratory analyses, and a through assessment of potential human health risk assessments at each specific location. The results of the human health risk assessment at these sites/AOCs do not present an unacceptable risk to human health or the environment. Therefore, since DTSC has determined that there is no possibility that the project may have a significant effect on the environment, the activity is not subject to CEQA.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST-7

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/03/2000
Comments: PEA - ST-7, ST-8, ST-21C, ST-21D, ST-21E, ST-21F, ST-79, and ST- 82: Under a Resource Conservation and Recovery Act (RCRA) Facility Assessment completed on MCAS Tustin in 1995, the above sites were identified as potentially contaminated sites. Investigation and cleanup work was conducted under the RCRA Stabilization as required by the RCRA Permit. The Regional Water quality Control Board provided oversight of cleanup of petroleum contamination. DTSC's Office of Military Facilities provided oversight of removal and remediation of hazardous material contamination and reviewed the final closure reports for the above sites in accordance with the RCRA and Comprehensive Environmental Recovery Compensation and Liability Act (CERCLA) quidelines, and pursuant to the Federal Facilities Site Remediation Agreement (FFSRA), signed on 8/18/1999. Remedial actions were taken at these sites as follows: 1) At Sites ST-7, ST-21D and ST-82 the concrete slab was decontaminated using mechanical scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample was taken and tested for metal and chlorinated solvents. In addition, soil samples were taken and analyzed for the same chemicals. Levels found where below action level. However rinse water was still collectedand treated in the onsite thermal desorption unit (TDU) before being discharged into the sanitary sewer. 2) At Site ST-8, soil samples where taken and analyzed for TPH-extractable, Solvents, PCBs, and metals. All samples were below PRGs. 3) At ST-21C, soil and groundwater samples where taken and screened for solvents, metals and petroleum. Methyl-Tertiary- Butyl-Ether MTBE was detected in the soil above action level. Impacted soil was removed and treated on site at the local TDU, confirmation samples were taken. 4) At ST-21E, soil samples were taken and analyzed for solvents. metals, PCBs, and petroleum. One sample indicated a high hit of benzo(a)pyrene. Impacted soil was removed and treated on site at the local TDU, confirmation samples were taken. 5) At ST-2F the concrete slab was decontaminated using mechani- cal scrubbing and pressure washing with detergent and rinsed with source water. A rinsate sample was taken and tested for metals, chlorinated solvents and PCBs. In addition, soil samples were taken and analyzed for the same chemicals. Levels found where below action level. However rinse water was still collected and treated in the onsite thermal desorption unit before being dis- charged into the sanitary sewer. 6) At ST-79, soil samples where taken and analyzed for TPH- extractable, chlorinated Solvents, pesticides, PCBs, and metals. One sample detected contained Aroclor-1260, and dieldrin above action level. Impacted soil was removed and is being stockpilled and will be transported off site for storage.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA-5
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/2000
Comments: PEA - MWA-05, TOW-06, UST-508, MWA-12, TOW-11, UST-251, MWA-13, TOW-12, UST-252: Under a Resource Conservation and Recovery Act (RCRA) Facility Assessment completed on MCAS Tustin in 1995, the above sites were identified as potentially contaminated sites. Remediation actions were taken at these sites as follows; 1) At Site MWA-05, a total of 25 samples were collectedand tested for TPH-extractable. TOW-06 and UST-508 were excavated confirmation

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

samples were taken. Sample results were below action levels. 2) At MWA-12, the concrete pad was decontaminated and final rinsate samples showed no detection of contamination. Risate water was collected and treated on site before being discharged into the channel under the NPDES permit. In addition, soil samples were taken at MWA-12, TOW-11, UST-251 after the removal of the oil/water separator and the assigned Storage tank (UST-251). Samples collected triggered an excavation of 156 tons of TPH impacted soil at UST-251 site. Deeper confirmation samples indicated the removal of the impacted soil which was treated at the onsite Themal Desorption Unit (TDU). 3) For MWA-13 the concrete pad was decontaminated and rinsate samples were taken. Rinsate samples indicated no contamination present, however rinsate water was collected and treated locally before being discharged into Peter Canyon Channel. For TOW-12 and UST-252, The oil/water and the tank were removed. Soil samples taken at both sites triggered an excavation of TPH impacted soil at UST-252. 82 tons of soil were removed and treated at the local TDU.

Completed Area Name: IRP-9
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/26/2000
Comments: IRP 9A: Between July 1997 and September 1997, approximately 676 tons of PAH-contaminated soil and 25 tons of total petroleum hydrocarbon (TPH)-contaminated soil was excavated and treated from IRP-9A Subareas 1 and 2 combined. The contaminated soil was transported to the on-site thermal desorption unit (TDU), treated, and transported back to IRP-9A for use as backfill in the excavation. The removal action at IRP 9A Subarea 2 encompassed the boundaries of two STs: ST-40A and ST-40B. The remaining STs were outside the excavation limits of the removal action. ‘ IRP 9B: Between October 1998 and January 1999, approximately 3788 tons of PAH-contaminated soil from IRP 9B Subarea 1 and 3049 tons of PAH-contaminated soil from IRP 9B Subarea 3 were excavated and treated. The contaminated soil was transported to the on-site thermal desorption unit (TDU), treated, and transported back to IRP-9B for use as backfill in the excavation. The removal action at IRP 9B Subarea 1 encompassed the boundaries of two STs: ST-47A and ST-47B. ‘ Based on the post-removal action human health risk assessment, it was determined that exposure to the remaining soil and residual PAH concentrations at IRP 9A and IRP 9B would result in a human health risk well within the acceptable range for resident children and industrial workers, and at the NCP point of depature for resident adults, as defined by the EPA for unrestricted residential or industrial use.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SITE2
Completed Document Type: Removal Action Completion Report
Completed Date: 11/20/1998
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 13W
Completed Document Type: Removal Action Completion Report
Completed Date: 11/20/1998
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: TUST2
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 03/12/1998
Comments: CERFA - TUST2: Subsequent to the April 14, 1994 CERFA concurrence, an additional environmental investigation and evaluation of the MCAS Tustin found additional areas within the base that meets the CERFA uncontaminated criteria in accordance with the amendment to Section 120(h)(4) of CERCLA. These areas included the agricultural land which were evaluated under a pesticide investigation in 1996. The investigation found these areas to contain pesticides at concentrations within or below the statistical range for land of similar use at MCAS Tustin and the levels are not a threat to human health or the environment. Additional areas were also identified based on the Base wide groundwater investigation of 1994. These areas were found to be property upon which no hazardous substances and no petroleum products or their derivatives were known to have been released or disposed of, including no migration of these substances from adjacent areas. These properties are eligible for CERFA concurrence.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRCL3
Completed Document Type: Finding of Suitability to Lease
Completed Date: 01/29/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 03/01/2006
Comments: DTSC letter was signed

Completed Area Name: FOST6
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/17/2004
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Five-Year Review Reports
Completed Date: 11/20/2006
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Technical Report
Completed Date: 04/23/2007
Comments: Not reported

Completed Area Name: OU-4A
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 12/11/2004
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-4A
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 08/27/2004
Comments: This project is complete

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/12/2007
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 16
Completed Document Type: * Site Closure Report
Completed Date: 08/17/2004
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/24/2004
Comments: This task is completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2010
Comments: The final letter was sent

Completed Area Name: OU-4B
Completed Sub Area Name: MMS-04 (AREA B)
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/21/2011
Comments: Report complete

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 07/08/2010
Comments: Work Plan is approvedvia telephone

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 12/14/2010
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 10/26/2011
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 05/02/2011
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 12/17/2010
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/28/2010
Comments: This is a final document. comments or letter is not necessary

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2010
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 01/10/2012
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/27/2014
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/20/2011
Comments: Data summary report No final letter is required

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/18/1999
Comments: This document is uplodaed Federal Facilities Agreement which was signed on August 18th 1999

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/22/2013
Comments: completed

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/30/2011
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 03/27/2012
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 5S(a)
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 01/03/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 06/23/2011
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Ready for Anticipated Use
Completed Date: 09/24/2021
Comments: RAU EI had been met

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 07/01/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/27/2021
Comments: Deed restriction filed with the county

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 07/20/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 07/01/2023
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 10/29/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/17/2009
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/24/2009
Comments: Final revised report was sent by Navy

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/20/2011
Comments: Water bOard is the lead DTSC has already sent the comments. We have no other comments

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/07/2010
Comments: Complete

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2010
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/18/2012
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/28/2010
Comments: This is a final document. comments or letter is not necessary

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/28/2010
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 08/17/2010
Comments: Final. No comments required

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/05/2011
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/27/2010
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/08/2008
Comments: Document complete

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2011
Comments: Report Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 09/20/2011
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/29/2012
Comments: No final letter is required

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/29/2012
Comments: NO letter is required

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/17/2010
Comments: Final. No comments required

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 11/30/2010
Comments: Final letter is sent

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/27/2010
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/10/2010
Comments: Data summary report No comments are necessary

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/08/2011
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/28/2010
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/26/2014
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 11/09/2010
Comments: No comments are necessary. Data summary report

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/27/2024
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/26/2023
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Lease
Completed Date: 07/20/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 5S(a)
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2022
Comments: Not reported

Completed Area Name: OU1A - Hangar 1 / Bldg 28
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/18/2024
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 04/05/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/01/1996
Comments: Navy forwarded draft final Background Metals Issue Paper on 12/19/2023 for DTSCs records. No DTSC letter provided. Document accepted as-is.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST18B
Completed Document Type: Finding of Suitability to Lease
Completed Date: 01/01/2000
Comments: Not reported

Completed Area Name: IRP Site 41
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 10/17/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/06/2023
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/13/2015
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/13/2015

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 04/02/2019
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/12/2014
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/27/2010
Comments: Final Report. NO comments were submitted

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/18/2010
Comments: Complete

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/30/2008
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/30/2008
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 03/29/2010
Comments: ROD has been signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/23/2005
Comments: This is waterboard lead

Completed Area Name: OU-3

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 02/24/2010
Comments: report completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 12/17/2010
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Plan
Completed Date: 09/24/2009
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 09/09/2008
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/18/2008
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/18/2008
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/14/2006
Comments: No letter is required

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/17/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/30/2008

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: No comment

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/24/2009
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/27/2010
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/09/2007
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 06/30/2009
Comments: Work Plan for Installation of GW wells at OU 4B approved.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 10/13/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 07/23/2008
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/30/2008
Comments: No comments

Completed Area Name: OU-3

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/12/2006
Comments: DTSC reviewed the document. DTSC comments were adequately addressed.

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/02/2009
Comments: Completed the document review

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/01/2008
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 01/27/2009
Comments: No Comment

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/30/2009
Comments: Groundwater Monitoring Report for OU 4B approved.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/12/2008
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/13/2009
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 09/24/2009
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 29A
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/12/2010
Comments: The Report is final and complete

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/17/2009

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/27/2010
Comments: No comments were needed.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Five-Year Review Reports
Completed Date: 01/10/2012
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/07/2009
Comments: Water Board Lead. The document review is completed by DTSC

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/04/2021
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 09/25/2023
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 10/17/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/08/2023
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 12/12/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 09/25/2023
Comments: Not reported

Completed Area Name: OU-3

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/01/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 09/10/2021
Comments: Report completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 11/05/2021
Comments: Final Report completed with no comment noted.

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/03/2021
Comments: Report reviewed with no outstanding issues based on draft.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Plan
Completed Date: 03/20/2020
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/01/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/26/2022
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 13W
Completed Document Type: Monitoring Report
Completed Date: 06/20/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 11(Area B)
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/03/2021
Comments: Closure concur with Navy. No further letter needed based on concurrence letter of draft report.

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 06/15/2022
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/09/2024
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/01/2022
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/24/2023
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/15/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/10/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/20/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 13W
Completed Document Type: Monitoring Report
Completed Date: 05/03/2022
Comments: Navy submitted final report

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/21/2022
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/12/2021
Comments: Report reviewed with no comments. Data are consistent with historical trends and recommendations are appropriate.

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-4B
Completed Sub Area Name: 5S(a)
Completed Document Type: Monitoring Report
Completed Date: 09/25/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/18/2024
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2022
Comments: Report received as draft with no comments.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Finding of Suitability for Early Transfer
Completed Date: 08/08/2007
Comments: Completed early transfer

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/24/2015
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 03/04/2010
Comments: Completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/17/2017
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/24/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/04/2018
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 02/22/2016
Comments: RWQCB lead...only petroleum issues

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/24/2015
Comments: completd

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/24/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 05/13/2015
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/02/2014
Comments: No letter is required Up date document

Completed Area Name: OU-1B
Completed Sub Area Name: 3
Completed Document Type: Other Report
Completed Date: 05/06/2015
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: 3
Completed Document Type: Technical Report
Completed Date: 01/12/2017
Comments: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 06/30/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision - Amendment
Completed Date: 01/16/2015
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/16/2013
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/24/2014
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/29/2016
Comments: none

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/14/2015
Comments: completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/08/2016
Comments: Site Charac. report needed to be reviewed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/23/2014
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Monitoring Report
Completed Date: 02/24/2010
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 03/28/2011
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/08/2015
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/20/2016
Comments: completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/08/2015
Comments: done

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 09/24/2013
Comments: EPA is in charge in approving this document. No DTSC final is needed.

Completed Area Name: OU-4B
Completed Sub Area Name: 11(Area B)
Completed Document Type: Monitoring Report
Completed Date: 08/15/2013
Comments: This report is complete.

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision - Amendment
Completed Date: 02/23/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/24/2015
Comments: letter was sent

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 12/30/2020
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/31/2019
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/20/2021
Comments: Report reviewed with no outstanding issue noted. GW data are within historical trends.

Completed Area Name: 2,9
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 01/03/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/25/2020
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/26/2021
Comments: Not reported

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/24/2023
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/04/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Base / Site Management Plan
Completed Date: 12/12/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Document Type: Monitoring Report
Completed Date: 06/16/2021
Comments: Not reported

Completed Area Name: OU3MW
Completed Sub Area Name: IRP-1
Completed Document Type: Monitoring Report
Completed Date: 11/20/2020
Comments: Final Report received and accepted.

Completed Area Name: OU3MW
Completed Sub Area Name: IRP-1
Completed Document Type: Monitoring Report
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: OU-4A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/20/2020
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 08/14/2008
Comments: Land use annual report is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 06/24/2010
Comments: PERF document signed and Complete

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP 24-1b
Completed Document Type: Land Use Restriction
Completed Date: 06/05/2008
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/25/2009
Comments: This complies with land use controls

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/21/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Federal Facility SR Agreement
Completed Date: 08/18/1999
Comments: ORDER(FFSRA) - BASEWIDE: DTSC entered into an enforceable agreement

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

with the United States Navy for the Marine Corps Air Station located in Tustin, California on August 18, 1999. Elsie L. Muncell, the Deputy Assistant Secretary of the Navy (Environment & Safety) and John Scandura, Chief of the Southren California Branch of the Military Facilities, signed the Federal Facilities Site Remediation Agreement(FFSRA). The purpose of the agreement was to ensure that the Navy's corrective action obligations required by the Resource Conservation and Recovery Act (RCRA) permit, are complied with environmental impacts associated with past military activities at the facility are investigated and that the appropriate corrective, removal and/or remedial actions are taken as necessary. The FFSRA provides for DTSC review and approval of a Site Management Plan (SMP), document submittals, and quarterly progress report in accordance with specified deadlines.

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/20/2006
Comments: A land use covenant was recorded on July 20, 2006 that restricts residential, industrial and other use, since it was a former landfill. The Moffett Trenches and Crash Crew Burn Pit was designated as OU-3 and is also known as Installation Restoration Program Site 1. OU-3 is generally bounded to the northeast by the southern edge of Edinger Avenue, to the northwest by the western edge of the access road on the northwest edge of the Jamboree Road roadbed fill (approximately 20 feet west of the landfill gas probes), to the southwest by the toe of the northern concrete support structure for the Jamboree Road overpass above Moffett Drive, and to the southeast by the western edge of the Peters Canyon Channel bottom where it meets the containment remedy wall or western channel bank. The OU-3 Record of Decision/Remedial Action Plan (ROD/RAP) was approved on December 20, 2001and selected a surface cover, containment wall along Peters Canyon Channel; landfill gas, groundwater and surface water monitoring program; land use restrictions; and a contingency plan as the remedial action for OU-3. The ROD/RAP provided that the Covenant must provide for access for Department, the Regional Water Quality Control Board, and other regulatory agencies that have jurisdiction, including any contractor or representative acting at the direction of any such aforementioned entity. The areas of applicability of the restrictions set forth in this Covenant are referred to as the Property and are more particularly described and depicted in Exhibit A and B, respectively.

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 03/29/2010
Comments: State Clearing House received completed document on March 30, 2010

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP 24-1b
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 05/25/2009
Comments: This report certifies land use controls in compliance

Completed Area Name: OU-3

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Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 03/13/2009
Comments: Annual REport is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 06/23/2011
Comments: Completed

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: Land Use Restriction
Completed Date: 01/28/2008
Comments: Not reported

Completed Area Name: Transfer Parcels
Completed Sub Area Name: ETP-24-1a
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/19/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/27/2024
Comments: Not reported

Completed Area Name: OU1A - Hangar 1 / Bldg 28
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/29/2024
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Meeting
Completed Date: 10/06/2024
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/19/2023
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability for Early Transfer
Completed Date: 09/17/2007
Comments: Governor signed the Early transfer package on September 17, 2007.

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Removal Action Completion Report
Completed Date: 03/10/2006

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Comments: Waterboard approved on 2/1/06

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222/ MTBE GW Cleanup
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/08/2007
Comments: Report is complete.

Completed Area Name: FOSL3
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/26/2002
Comments: FOSL - FOSL3: DTSC reviewed and commented on the FOSL 3. DTSC concurs with the Navy that the property could be leased in a manner that is protective of human health and the environment with the specified restrictions, conditions and notifications set forth in the FOSL.

Completed Area Name: FOST3
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/22/2002
Comments: FOST - FOST3: DTSC reviewed and commented on the FOST 3 for Parcels 23,29,34,35,36 and portions of 1,16,17,24,27,28,40, and 41 and found parcel 36 and portions of 24 and 41 to be environmentoally suitable for transfer for their intended use. ‘ DTSC is unble to concur with the suitability of Parcels 1 and 17 for transfer. The 1998 MCAS Tustin Specific Plan/Reuse Plan Errata identifies Parcels 1 and 17 as educational/recreational use. As a result, it is possible that the reuse of these parcels could include school sites, meaning kindergarden through grade 12 (elementary, middle and high schools). Additional detail is not provided for Parcel 1 and the Base Realignment and Closure (BRAC) Business Plan 2002 (in review) designates the land use of Parcel 17 as a High School. Pursuant to the California Education Code, section 17210 et seq; a separate and comprehesive environmental review is required for sites where stat funds will be used for property acquisition or school construction. This review process includes an evaluation of whether hazardous materials on the property have been or could be released that would endanger students. Because this separate environmental review has not been conducted for Parcels 1 and 17, DTSC cannot determine if these parcels are suitable for the intended use. ’ DTSC was unable to concur with the suitability of Parcels 23, 29, 34, 35, and portions of Parcels 1, 16, 27, 28, and 40 for transfer. These parcels include buildings/structures where potential releases of lead from lead-based paint (LBP) were not evaluated or where sufficient information was not provided for DTSC to determine if LBP is a potential issue. DTSC considers the presence of exterior LBP that has been released to the soil to pose a potential release to the environment pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Completed Area Name: Transfer Parcels
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Lease
Completed Date: 02/27/2002
Comments: DTSC reviewed and commented on the FOSL for Southern Parcels CO Areas

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1,2,3 and 4. DTSC concurs with the Navy that the Southern Parcels CO Areas property is suitable for lease for the purposed intended (commercial/business) subject to the conditions, notifications, and restrictions set forth in the FOSL.

Completed Area Name: FOST2
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/19/2001
Comments: FOST - FOST2: DTSC reviewed and commented on the FOST for Southern Parcels 4 - 8, 10 - 12, 14, 42 and Parcels 25, 26, 30 -33, 37 and Portions of 40 and41 andfound Parcels 3 - 8, 10 - 12, 14, 42 and Parcels 25, 26, 30, 32, 33, 37and Portions 41 to be environmentally suitable for transfer for their intended use. ‘ DTSC was unable to concur on the suitability of Parcel 31 for transfer. The MCAS Tustin Specific Plan/Reuse Plan Errata (City of Tustin 1998) identifies this parcel as future elementary school site. Pursuant to the California Education Code, section 17210 et seq., a separate and comprehensive environmental review is reuired for sites where state funds will be used for property acquisition or school construction. The Education Code requires that DTSC make a determination as to the suitability of the property for school use based on this review. Thereview process includes an evaluation of whether hazardous material on the property have been or could be released that would endanger school students. Because this separate environmental review has not been conducted for Parcel 31 DTSC was unable to determine if these parcel was suitable for use as elementary school sites and, therefore, we did not concur with the Finding of Suitability for this parcel. ‘ In addition, DTSC was unable to concur with the suitability of Parcel 4 and portions of Parcel 40 for transfer. These parcels may have lead based paint (LBP) that has been released to the soil. DTSC maintains that lead in soil from LBP is a Comprehensive Environmental Response, Compensation, and Libablity Act (CERCLA) release to the environment. Building 176 (Parcel No. 4), Buildings 180, 181, 182 (Parcel No. 40), and Structure 237 (Parcel No. 4) were all constructed prior to 1978, the year when lead based paint products were discontinued. Navy did not conduct conduct soil sampling to determine whether soils surrounding these buildings contain concentrations of lead from LBP which may pose a threat to human health and the environment. Until such sampling is performed, DTSC cannot determine whether, pursuant to CERCLA 120(a)(3), all actions havebeen taken at these two parcels to remedy potential releases of lead to the environment from LBP.

Completed Area Name: FOST1
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/27/2001
Comments: FOST - FOST1: DTSC reviewed and commented on the FOST for Parcels 3, 21, 38, 39, and Portions of 40 and found Parcels 3, 38 and portions of 40 to be environmentally suitable for transfer for their intended use as transitional/emergency housing, community park/road and transportation/circulation facilities, respectively. ‘ DTSC was unable to concur on the suitaility of Parcels 21 and 39 for transfer. The MCAS Tustin Specific Plan/Reuse Plan Errata (City of Tustin 1998) indentifies these parcels as future elementary school sites. Pursuant to the California Education Code, section 17210 et seq., a separate and comprehensive environmental review is required for sites where

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state funds will be used for property acquisition or school construction. The Education Code requires that DTSC make a determination as to the suitability of the property for school use based on this review. The review process includes an evaluation of whether hazardous materials on th property have been or could be released that would endanger school students. Because this separate environmental review has not been conducted for Parcels 21 and 39 , DTSC was unable to determine if these parcels were suitable for use as elementary school sites and, therefore, we did not concur with the finding of Suitability for these two parcels.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ASAOC
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/04/2002
Comments: Not reported

Completed Area Name: OU-4
Completed Sub Area Name: AS
Completed Document Type: Remedial Action Plan
Completed Date: 06/25/2004
Comments: RAP - ASAOC: The Final Action Memeorandum (AM)/Remedial Action Plan (RAP) addresses a non-time critical removal action for removal of soil contaminated with arsenic at the Arsenic Area of Concern. The contaminated soil will be disposed at permitted off-site facility.
The Removal Action for this site is deemed consistent with Division 20, Chapter 6.8, California Health and Safety Code. This removal action will reduce the human risk associted with arsenic contaminated soil.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: S16AB
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/07/2003
Comments: PEA - ST16A&ST16B: The Site Inspection (SI) report summarizes the results of previous investigations conducted at ST 16A and 16B. The Navy found polycyclic aromatic hydrocarbons (PAH) in soils in earlier investigations at these two sites. They completed a removal action of contaminated soils in 1997. Post-removal soil sampling sound some additional contamination with PAH. The subject report documents the Department of the Navy's (DON's) risk screening evaluation at the site and based on the risk estimates recommends a No Further Action (NFA) site closure for ST16A and ST16B. DTSC did not concur with the NFA recommendation.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MOOR5
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/21/2002
Comments: PEA - MOOR Pad 4 and 5 (MOOR5): The preliminary Assessment was performed to evaluate the distribution of polycyclic aromatic hydrocarbons at the Mooring pads, Twenty Seven direct-push soil samples were collected from depths ranging from 6 inches to 18 inches below ground surface at Mooring Pad 4. Five samples were collected at the degraded locations at the Mooring Pad 5. The results of the screening risk assessment indicate that concentrations at the Mooring Pad 4 and 5 are with in the risk management decision reange and pose

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acceptable risk levels and recommended no further action. DTSC concurs with the recommendation.

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/12/2006
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 07/02/1992
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: 6
Completed Document Type: Technical Workplan
Completed Date: 10/11/2006
Comments: DTSC reviewed the document. DTSC comments were adequately addressed.

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Remedial Action Plan
Completed Date: 12/20/2001
Comments: The ROD/RAP was issued on May 17, 2000 and signed by DTSC on December 18, 2001. The ROD/RAP documents the final selected remedial action for the Moffett Trenches and crash Crew Burn Pits site. The major components of the selected remedial action for OU-3 are institutional controls, groundwater and surface-water monitoring, landfill gas monitoring, inspection and maintenance of the containment wall and cover, maintenance of the French drain system and associated sumps, maintenance of monitoring wells and security features, and periodic reviews. In addition, the land use controls include use restrictions, notification procedures, inspections of physical structures, contingency plans, and five-year reviews.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/19/2005
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/18/2005
Comments: This document does not require comments

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 27A/B
Completed Document Type: * Site Closure Report
Completed Date: 08/27/2004
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported

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Completed Document Type: Monitoring Report
Completed Date: 06/15/2005
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 03/21/2002
Comments: RIFS - OU1B: IRP Sites 3 and 12. The Feasibility Study (FS) develops and evaluates potntial remedial alternatives to mitigate risks to human health from groundwater, contaminated with volatile organic compounds, principally trichloroethene (TCE), and related organic solvents originated at Sites 3 and 12. This FS involved screening technologies and associated process options according to effectiveness, implementability, and cost. The retained options were assembled into remedial alternatives and then evaluated against regulatory criteria.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/19/2001
Comments: BWEBS - BW: Department of Defense and Department of the Navy policy and guidance documents, along with currently available information generated from on-site investigations, visual inspections, personnel interviews, regulatory records searches, aerial photograph reviews, reviews of data for adjacent properties, and chain-of-title searches, are the basis for this report. This Basewide EBS Report supplements the April 1994 MCAS Tustin EBS for the Community Environmental Response Facilitation Act of 1992 Report and the April 1997 MCAS Tustin EBS for Parcels 6, 8B, 8C, 11A, 33, 38, 39, 41A, and 41B. ‘ CEQA - OU3: DTSC completd a Special Initial Study to evaluate the potential for adverse environmental impact for the Proposed remedial action identified in the Record of Decision/Remedial Action Plan (ROD/RAP). The remedial action includes application of institutional controls, inspection and maintenance of the concrete containment wall and surface cover, monitoring of ground water and surface water, monitoring of landfill gas, maintenance of the french drain system and associated sumps, periodic reviews of monitoring results, and preparation of a contingency plan. Based on the Special Initial Study, a Negative Declaration was prepared pursuant to the provisions of CEQA. The draft Negative Declaration was circulated for a 30-day public review and comment period. DTSC has found, on the basis of the Special Initial Study and comments received on the Negative Declaration, that there is no substantial evidence that the project will have a significant effect on the environment. ‘ PEA - PCL35 and PCL 21: The Department of Navy has a lead-in-soil samplingprogram. Its objective, at MCAF Tustin is to evaluate potential lead-based paint hazards in the soil adjacent to the housing units within the housing areas costructed prior to 1978. Lead-based paint on the exterior of the houses could potentially flakeoff of the housing units and impact soil in the yard and also in areas adjacent to the perimeter of the house. A work plan was developed for the evaluation of potential lead-based paint hazards in soil at the former housing areas, one of which is Moffett Meadows (PCL 35) and Tustin Villas (PCL21). The intent of the soil sampling at the housing areas was to determine whether further evaluation was necessary prior to

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transferring the property for future use. Base on the sampling results, it was determined that no further action was required for lead-based paint in soil at Moffett Meadows or at Tustin Villas.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: MWA03
Completed Document Type: Removal Action Completion Report
Completed Date: 12/20/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/30/2005
Comments: THis is a field work. No reports were done

Completed Area Name: OU-4
Completed Sub Area Name: AS
Completed Document Type: Removal Action Completion Report
Completed Date: 06/23/2005
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/10/2006
Comments: DTSC reviewed the document. DTSC comments were adequately addressed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/30/2005
Comments: Completed for this year

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 10/14/2008
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/14/2006
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Removal Action Completion Report
Completed Date: 09/09/2005
Comments: The soil removal action achieved the objective of excavating VOC-contaminated soil in the vadose zone above the cleanup level. The confirmation soil samples indicated that the lateral extent of VOC-contaminated soil above the cleanup goal was removed. The removal of contaminated soil made it possible for the builder to install the utilities at this site.

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Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Remedial Action Plan
Completed Date: 12/02/2004
Comments: The OU-1A ROD/RAP presents the selected remedial action consisting of excavating soil contaminated with volatile organic compound (VOC) from a hot spot area, disposing this soil at a permitted facility, and extracting and treating VOC-contaminated groundwater using a granular activated carbon (GAC) system from a hot spot area and containment wells at site IRP 13S. Hot spot areas are classified as soil and groundwater contamination area that are characterized by the highest concentrations of VOC chemicals. The remediation of soil and groundwater hot spots will expedite the cleanup of groundwater.

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 12/02/2004
Comments: The OU-1B ROD/RAP presents the selected remedial action consisting of excavating soil contaminated with volatile organic compound (VOC) from a hot spot area, disposing this soil at a permitted facility, and extracting and treating VOC-contaminated groundwater using a granular activated carbon (GAC) system from a hot spot area and containment wells at site IRP sites 3 and 12. Hot spot areas are classified as soil and groundwater contamination area that are characterized by the highest concentrations of VOC chemicals. The remediation of soil and groundwater hot spots will expedite the cleanup of groundwater.

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/21/2005
Comments: This report is done

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/02/2007
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/21/2005
Comments: This task is completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 12/11/2004
Comments: Remedial Action Plan implements a Pump and Treat remedy for VOC contaminated groundwater.

Completed Area Name: OU-3
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

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Completed Date: 08/27/2004
Comments: Completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Technical Workplan
Completed Date: 08/14/2005
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/24/2007
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/05/2015
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/23/2014
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/16/2016
Comments: HERO review got delayed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/03/2018
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 01/12/2017
Comments: Not reported

Completed Area Name: REUSE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/02/2014
Comments: completed

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Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/26/2014
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/02/2019
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/28/2019
Comments: Not reported

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/20/2011
Comments: No comments are necessary

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Five-Year Review Reports
Completed Date: 01/10/2012
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/30/2011
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/27/2012
Comments: Completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/14/2012
Comments: Semi annual submitted as final

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 05/17/2012
Comments: It is a data pakage letter report. No comments were sent

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Completed Date: 11/08/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Five-Year Review Reports
Completed Date: 04/23/2013
Comments: Completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/24/2014
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 10/14/2012
Comments: Semi annual submitted as final

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/17/2012
Comments: It is a data pakage letter report. No comments were sent

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/08/2013
Comments: completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 10/09/2012
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 06/30/2016
Comments: completed

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Other Report
Completed Date: 07/03/2013
Comments: Water Board is in charge for this document. No DTSC letter was sent

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Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 01/09/2013
Comments: completed

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 08/16/2013
Comments: completed

Completed Area Name: OU-4B
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 09/30/2015
Comments: completed

Completed Area Name: Water Board Lead
Completed Sub Area Name: UST 222
Completed Document Type: Other Report
Completed Date: 01/16/2013
Comments: Completed

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 03/16/2016
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2015
Comments: done

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report
Completed Date: 11/19/2014
Comments: Not reported

Completed Area Name: OU-1B
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/19/2014
Comments: Not reported

Completed Area Name: OU-3
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 06/12/2014
Comments: Not reported

Completed Area Name: OU-1A
Completed Sub Area Name: 13S
Completed Document Type: Monitoring Report

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Completed Date:	10/16/2013
Comments:	completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	09/03/2019
Comments:	Not reported
Completed Area Name:	Multiple OUs - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/28/2020
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	02/05/2020
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	09/23/2022
Comments:	Not reported
Completed Area Name:	OU-4B
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	02/25/2020
Comments:	Not reported
Completed Area Name:	OU-3
Completed Sub Area Name:	1
Completed Document Type:	Monitoring Report
Completed Date:	04/24/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Tech Memo
Completed Date:	03/02/2018
Comments:	Not reported
Future Area Name:	Multiple OUs - MULTIPLE SITES
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2025
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision w/ESD
Future Due Date:	2026
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2025

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Future Area Name:	Multiple OUs - MULTIPLE SITES
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision w/ESD
Future Due Date:	2027
Future Area Name:	IRP Site 41
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation / Feasibility Study
Future Due Date:	2026
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Certification
Schedule Due Date:	12/12/2021
Schedule Revised Date:	11/10/2050
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	12/19/2023
Schedule Revised Date:	05/09/2024

Calsite:

Name:	TUSTIN MARINE CORPS AIR STATION
Address:	NEWPORT FREEWAY AT EDINGER AVENUE
City:	TUSTIN
Region:	GLENDALE
Facility ID:	30970002
Facility Type:	CLOSE
Type:	CLOSED MILITARY BASE
Branch:	SO
Branch Name:	OMF-SOUTHERN CALIF
File Name:	Not reported
State Senate District:	06011986
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	APEDDADA
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SA
Region Water Control Board Name:	SANTA ANA
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	70
State Senate District Code:	33
Facility ID:	30970002
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	ASAOC
Proposed Budget:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

AWP Completion Date:	06252004
Revised Due Date:	Not reported
Comments Date:	06252004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	S16AB
Proposed Budget:	0
AWP Completion Date:	02072003
Revised Due Date:	Not reported
Comments Date:	02072003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MOOR5
Proposed Budget:	0
AWP Completion Date:	11212002
Revised Due Date:	Not reported
Comments Date:	11212002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	FOST4
Proposed Budget:	0
AWP Completion Date:	12042002
Revised Due Date:	Not reported
Comments Date:	12042002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	REV
Proposed Budget:	0
AWP Completion Date:	01092003
Revised Due Date:	Not reported
Comments Date:	01092003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Unknown Type:	0
Facility ID:	30970002
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	OU3
Proposed Budget:	0
AWP Completion Date:	08312005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MAW01
Proposed Budget:	0
AWP Completion Date:	05202002
Revised Due Date:	Not reported
Comments Date:	05202002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	TCRA1
Proposed Budget:	0
AWP Completion Date:	10222001
Revised Due Date:	Not reported
Comments Date:	10222001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PCL21
Proposed Budget:	0
AWP Completion Date:	06192001
Revised Due Date:	Not reported
Comments Date:	06192001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PCL35
Proposed Budget:	0
AWP Completion Date:	06192001
Revised Due Date:	Not reported
Comments Date:	06192001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	12312007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	02022006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	DES

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity Name:	DESIGN
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	12232004
Revised Due Date:	Not reported
Comments Date:	12232004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	03312008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	11302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	11302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	FOSL3
Proposed Budget:	0
AWP Completion Date:	04262002
Revised Due Date:	Not reported
Comments Date:	04262002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	FOST3
Proposed Budget:	0
AWP Completion Date:	04222002
Revised Due Date:	Not reported
Comments Date:	04222002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	FOSL2
Proposed Budget:	0
AWP Completion Date:	02272002
Revised Due Date:	Not reported
Comments Date:	02272002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	FOST2
Proposed Budget:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

AWP Completion Date:	09192001
Revised Due Date:	Not reported
Comments Date:	09192001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	FOST1
Proposed Budget:	0
AWP Completion Date:	09272001
Revised Due Date:	Not reported
Comments Date:	09272001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	ASAOC
Proposed Budget:	0
AWP Completion Date:	06042002
Revised Due Date:	Not reported
Comments Date:	06042002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	OU3MW
Proposed Budget:	0
AWP Completion Date:	05142002
Revised Due Date:	Not reported
Comments Date:	05142002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	OU3
Proposed Budget:	0
AWP Completion Date:	06262003
Revised Due Date:	Not reported
Comments Date:	06262003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	TCRA1
Proposed Budget:	0
AWP Completion Date:	10282005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MAE7
Proposed Budget:	0
AWP Completion Date:	05172001
Revised Due Date:	Not reported
Comments Date:	05172001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MWA15
Proposed Budget:	0
AWP Completion Date:	05172001
Revised Due Date:	Not reported
Comments Date:	05172001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	08312004
Revised Due Date:	Not reported
Comments Date:	12022004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	09052003
Revised Due Date:	Not reported
Comments Date:	09052003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	ST-5A
Proposed Budget:	0
AWP Completion Date:	06262000
Revised Due Date:	Not reported
Comments Date:	06262000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	ST13A
Proposed Budget:	0
AWP Completion Date:	06262000
Revised Due Date:	Not reported
Comments Date:	06262000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	DSD7
Proposed Budget:	0
AWP Completion Date:	06142004
Revised Due Date:	Not reported
Comments Date:	06142004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MAW7
Proposed Budget:	0
AWP Completion Date:	02062001
Revised Due Date:	Not reported
Comments Date:	02062001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	ST35
Proposed Budget:	0
AWP Completion Date:	05222001
Revised Due Date:	Not reported
Comments Date:	05222001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	ST18B
Proposed Budget:	0
AWP Completion Date:	02012001
Revised Due Date:	Not reported
Comments Date:	02012001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MWA10
Proposed Budget:	0
AWP Completion Date:	05302001
Revised Due Date:	Not reported
Comments Date:	05302001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	LPL
Proposed Budget:	0
AWP Completion Date:	06262000
Revised Due Date:	Not reported
Comments Date:	06262000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU2
Proposed Budget:	0
AWP Completion Date:	12122000
Revised Due Date:	Not reported
Comments Date:	12122000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	ST-7
Proposed Budget:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

AWP Completion Date:	03032000
Revised Due Date:	Not reported
Comments Date:	03032000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MWA-5
Proposed Budget:	0
AWP Completion Date:	03152000
Revised Due Date:	Not reported
Comments Date:	03152000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	MDA-6
Proposed Budget:	0
AWP Completion Date:	03222000
Revised Due Date:	Not reported
Comments Date:	03222000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU4
Proposed Budget:	0
AWP Completion Date:	08312004
Revised Due Date:	Not reported
Comments Date:	08312004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU3
Proposed Budget:	0
AWP Completion Date:	12202001
Revised Due Date:	Not reported
Comments Date:	12202001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Unknown Type:	0
Facility ID:	30970002
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	08312004
Revised Due Date:	Not reported
Comments Date:	12022004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	03212002
Revised Due Date:	Not reported
Comments Date:	03212002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	BWEBS
Activity Name:	BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code:	BW
Proposed Budget:	0
AWP Completion Date:	06192001
Revised Due Date:	Not reported
Comments Date:	06192001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	MWA03
Proposed Budget:	0
AWP Completion Date:	12201998
Revised Due Date:	Not reported
Comments Date:	12201998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	218
Liquids Treated (Gals):	218
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	EXCAVATION OF 218 TONS OF PAH CONTAMINATED SOILS WHICH WERE PROCESSEDWITH A PERMITTED ONSITE THERMAL DESORPTION UNIT.
For Commercial Reuse:	1
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	ST9AB
Proposed Budget:	0
AWP Completion Date:	09262000
Revised Due Date:	Not reported
Comments Date:	09262000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	6060
Action Included Capping:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	3.14000
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SITE2
Proposed Budget:	0
AWP Completion Date:	11201998
Revised Due Date:	Not reported
Comments Date:	11201998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	569
Liquids Treated (Gals):	569
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	THE PETROLEUM CONTAMINATED SOILS WERE PROCESSED WITH A PERMITTED ONSITE THERMAL DESORPTION UNIT.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	26.90000
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	13W
Proposed Budget:	0
AWP Completion Date:	11201998
Revised Due Date:	Not reported
Comments Date:	11201998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	4021
Liquids Treated (Gals):	4021
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	THE PCB AND LEAD CONTAMINATED SOILS WERE DISPOSED OF OFFSITE. THE PETROLEUM CONTAMINATED SOILS WERE PROCESSED WITH A PERMITTED ONSITE THERMAL DESORPTION UNIT.
For Commercial Reuse:	0
For Industrial Reuse:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

For Residential Reuse:	0.61000
Unknown Type:	0
Facility ID:	30970002
Activity:	CERFA
Activity Name:	COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code:	TUST2
Proposed Budget:	0
AWP Completion Date:	03121998
Revised Due Date:	Not reported
Comments Date:	03121998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	PRCL3
Proposed Budget:	0
AWP Completion Date:	01291999
Revised Due Date:	Not reported
Comments Date:	01291999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	9PRCL
Proposed Budget:	0
AWP Completion Date:	02111998
Revised Due Date:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	02111998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	HNGR2
Proposed Budget:	0
AWP Completion Date:	05281997
Revised Due Date:	Not reported
Comments Date:	05281997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU3S1
Proposed Budget:	0
AWP Completion Date:	03241999
Revised Due Date:	Not reported
Comments Date:	03241999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	B-93
Proposed Budget:	0
AWP Completion Date:	07261996
Revised Due Date:	Not reported
Comments Date:	07261996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	1
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	2 & 9
Proposed Budget:	0
AWP Completion Date:	12171996
Revised Due Date:	Not reported
Comments Date:	12171996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	VAR.
Proposed Budget:	0
AWP Completion Date:	05191997
Revised Due Date:	Not reported
Comments Date:	05191997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	13 W
Proposed Budget:	0
AWP Completion Date:	11071996
Revised Due Date:	Not reported
Comments Date:	11071996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	BASEW
Proposed Budget:	0
AWP Completion Date:	12171996
Revised Due Date:	Not reported
Comments Date:	12171996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	13 W
Proposed Budget:	0
AWP Completion Date:	07241996
Revised Due Date:	Not reported
Comments Date:	07241996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	7EECA
Proposed Budget:	0
AWP Completion Date:	12171995
Revised Due Date:	Not reported
Comments Date:	12171995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	3EECA
Proposed Budget:	0
AWP Completion Date:	12171995
Revised Due Date:	Not reported
Comments Date:	12171995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	16
Proposed Budget:	0
AWP Completion Date:	12171995
Revised Due Date:	Not reported
Comments Date:	12171995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CERFA
Activity Name:	COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code:	MCAST

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Proposed Budget:	0
AWP Completion Date:	04181994
Revised Due Date:	Not reported
Comments Date:	04181994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	BWEBS
Activity Name:	BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code:	MCAST
Proposed Budget:	0
AWP Completion Date:	04141994
Revised Due Date:	Not reported
Comments Date:	04141994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06211993
Revised Due Date:	Not reported
Comments Date:	06211993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	08271992
Revised Due Date:	Not reported
Comments Date:	08271992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	VSI
Proposed Budget:	0
AWP Completion Date:	10171991
Revised Due Date:	Not reported
Comments Date:	10171991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	ASOU4
Proposed Budget:	0
AWP Completion Date:	12312005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OU4
Proposed Budget:	0
AWP Completion Date:	02282010
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU4
Proposed Budget:	0
AWP Completion Date:	09302005
Revised Due Date:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OU3
Proposed Budget:	0
AWP Completion Date:	05052005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	09302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	12312008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU1A
Proposed Budget:	0
AWP Completion Date:	09302004
Revised Due Date:	Not reported
Comments Date:	11182004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU1B
Proposed Budget:	0
AWP Completion Date:	11182004
Revised Due Date:	Not reported
Comments Date:	11182004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	RA1A
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08172001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU3
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06192001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12122000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	BASEW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08181999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	30970002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	13 W
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11071996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	NEWPORT FREEWAY AT EDINGER AVENUE
Alternate City,St,Zip:	TUSTIN, CA 92710
Background Info:	roundwater, and soils. Contaminants at the Base include: jet fue l, aviation gas, oil, solvents, battery acids, and hydraulic oil. The cleanup effort at MCAS Tustin includes 16 IRP sites. Subse quent studies have found that four sites require no further actio n and 12 sites require further investigation, or have remedial ac tion currently underway. In addition, a remedial investigati on of the Fuel Farm Area, where approximately 800,000 gallons of fuel is stored, was completed in 1988. The following is the sum mary of the sites. OU-1A: IRP- 13 South(vehicle maintenance and e quipment wash area) OU1-B: IRP- 3 (paint stripper disposal area) and IRP- 12 (drum storage area No. 2) OU-2: IRP- 2, 9A/9B, 13 E (No further action is required at these sites) OU-3: IRP-1 (M offett Trenches and Crash Crew Burn Pits) OU-4: IRP-6, IRP-8, I RP-5N, IRP5S(a), IRP5S(b), IRP-11, IRP- 13W, and IRP-16 Tustin Marine Corps Air Station was first commissioned in 1942, w ith the Navy Lighter Than Air (LTA) Blimps. The Air Station serv ed as a LTA base until it was decommissioned in 1949. In 1951, t he Base was recommissioned as Santa Ana Marine Corps Air Facility . In 1985, the Base was renamed Tustin Marine Corps Air Station. The Base's mission was to train and support helicopter squadron s. The Base was closed in July 1999 as a part of the Base Realign ment and Closure (BRAC). Past waste management disposal operatio ns at the Base have resulted in contamination of surface water, g
Comments Date:	12202001
Comments:	mber 18, 2001. The ROD/RAP documents the final selected remedial
Comments Date:	11182004

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	t Former Marine Corps Air Station (MCAS) Tustin. The Marine C
Comments Date:	10222001
Comments:	RAW) was prepared to document for the administrative record the D
Comments Date:	06262000
Comments:	ST-60A and ST-80 were not necessary because the sites were locat
Comments Date:	11212002
Comments:	PEA - MOOR Pad 4 and 5 (MOOR5): The preliminary Assessment was pe
Comments Date:	11212002
Comments:	rformed to evaluate the distribution of polycyclic aromatic hydro
Comments Date:	11212002
Comments:	carbons at the Mooring pads, Twenty Seven direct-push soil sample
Comments Date:	11212002
Comments:	s were collected from depths ranging from 6 inches to 18 inches b
Comments Date:	11212002
Comments:	elow ground surface at Mooring Pad 4. Five samples were collecte
Comments Date:	11212002
Comments:	d at the degraded locations at the Mooring Pad 5. The results of
Comments Date:	11212002
Comments:	the screening risk assessment indicate that concentrations at th
Comments Date:	11212002
Comments:	e Mooring Pad 4 and 5 are with in the risk management decision re
Comments Date:	11212002
Comments:	ange and pose acceptable risk levels and recommended no further a
Comments Date:	11212002
Comments:	ction. DTSC concurs with the recommendation.
Comments Date:	11231998
Comments:	RA - SITE 2: Between May 23 and May 28, 1998 OHM, a remedial
Comments Date:	11231998
Comments:	contractor hired by the Navy excavated, 569 tons of PAH
Comments Date:	11231998
Comments:	contaminatedsoils.The petroleum contaminated soils were
Comments Date:	11231998
Comments:	processed with a permittedonsite thermal desorption unit.
Comments Date:	11231998
Comments:	The treated soil was used for backfill, compacted and the site
Comments Date:	11231998
Comments:	was restored to its original grade and appearance.
Comments Date:	11231998
Comments:	Not reported
Comments Date:	11231998
Comments:	RA - RA13W: Between June 3 and September 17, 1998 OHM, a remedial
Comments Date:	11231998
Comments:	contractor hired by the Navy excavated, 2,217 tons of PAH
Comments Date:	11231998
Comments:	contaminated soil, 252 tons of PCB contaminated soil, 19 tons
Comments Date:	11231998
Comments:	of lead contaminated soil and 1,533 tons of TPH contaminated
Comments Date:	11231998
Comments:	soil. The PCB and lead contaminated soils were disposed of
Comments Date:	11231998
Comments:	offsite. The petroleum contaminated soils were processed with a
Comments Date:	11231998
Comments:	permitted onsite thermal desorption unit. The treated soil was
Comments Date:	11231998
Comments:	used for backfill, compacted and the site was restored to its
Comments Date:	11231998
Comments:	original grade and appearance.

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	11231998
Comments:	Not reported
Comments Date:	11231998
Comments:	RA-MWA03: Between December 2 and January 6, 1998 OHM, a remedial
Comments Date:	11231998
Comments:	contractor hired by the Navy excavated, 218 tons of PAH
Comments Date:	11231998
Comments:	contaminated soil. The petroleum contaminated soils which were
Comments Date:	11231998
Comments:	processed with a permitted onsite thermal desorption unit.
Comments Date:	11231998
Comments:	The treated soil was used for backfill, compactedand the was
Comments Date:	11231998
Comments:	restored to its original grade and appearance.
Comments Date:	12022004
Comments:	The OU-1A ROD/RAP presents the selected remedial action consistin
Comments Date:	12022004
Comments:	g of excavating soil contaminated with volatile organic compound
Comments Date:	12022004
Comments:	(VOC) from a hot spot area, disposing this soil at a permitted fa
Comments Date:	12022004
Comments:	cility, and extracting and treating VOC-contaminated groundwater
Comments Date:	12022004
Comments:	using a granular activated carbon (GAC) system from a hot spot ar
Comments Date:	12022004
Comments:	ea and containment wells at site IRP 13S. Hot spot areas are cla
Comments Date:	12022004
Comments:	ssified as soil and groundwater contamination area that are chara
Comments Date:	12022004
Comments:	cterized by the highest concentrations of VOC chemicals. The rem
Comments Date:	12022004
Comments:	ediation of soil and groundwater hot spots will expedite the clea
Comments Date:	12022004
Comments:	nup of groundwater.
Comments Date:	12022004
Comments:	The OU-1B ROD/RAP presents the selected remedial action consistin
Comments Date:	12022004
Comments:	g of excavating soil contaminated with volatile organic compound
Comments Date:	12022004
Comments:	(VOC) from a hot spot area, disposing this soil at a permitted fa
Comments Date:	12022004
Comments:	cility, and extracting and treating VOC-contaminated groundwater
Comments Date:	12022004
Comments:	using a granular activated carbon (GAC) system from a hot spot ar
Comments Date:	12022004
Comments:	ea and containment wells at site IRP sites 3 and 12. Hot spot ar
Comments Date:	12022004
Comments:	eas are classified as soil and groundwater contamination area tha
Comments Date:	12022004
Comments:	t are characterized by the highest concentrations of VOC chemical
Comments Date:	12022004
Comments:	s. The remediation of soil and groundwater hot spots will expedi
Comments Date:	12022004
Comments:	te the cleanup of groundwater.
Comments Date:	12042002
Comments:	FOST - FOST4: DTSC reviewed and commented on the FOST for a porti
Comments Date:	12042002

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	on of Parcel 24. DTSC was unable to concur on the suitability of
Comments Date:	12042002
Comments:	Parcel 24 for transfer because the portion of Parcel 24, that is
Comments Date:	12042002
Comments:	the the subject of this FOST, includes buildings where potential
Comments Date:	12042002
Comments:	releases of lead from lead-based paint were not evaluated. Addi
Comments Date:	12042002
Comments:	tionally, MCAS Tustin is a permitted Hazardous Waste Facility und
Comments Date:	12042002
Comments:	er California law and DTSC cannot concur with a FOST until the ne
Comments Date:	12042002
Comments:	cessary permit modicication is complete.
Comments Date:	12122000
Comments:	RAP - OU2: No action is the selected remedy for the three IRP sit
Comments Date:	12122000
Comments:	es and nine AOCs. In selecting the no action remedy for these si
Comments Date:	12122000
Comments:	tes/AOCs, it was determined that the existing condition of the si
Comments Date:	12122000
Comments:	tes/AOCs is protective of human health and the environment. CEQ
Comments Date:	12122000
Comments:	A - OU2: A Notice of Exemption (NOE) for the OU-2 No Action Remed
Comments Date:	12122000
Comments:	ial Action Plan (RAP) was filed with the State Clearinghouse on S
Comments Date:	12122000
Comments:	epember 28, 2000. DTSC found the project the project to be exemp
Comments Date:	12122000
Comments:	t under Title 14 California Code of Regulations (CCR), Section 15
Comments Date:	12122000
Comments:	061(b)(3) based on the following: DTSC in conjunction with the RW
Comments Date:	12122000
Comments:	QCB, U.S. EPA and DON, determined that no further remedial action
Comments Date:	12122000
Comments:	is necessary to ensure the protection of human health and the en
Comments Date:	12122000
Comments:	vironment at sites IRP-2, IRP-13E and AOCs AD-04, AS-06, AS-08, A
Comments Date:	12122000
Comments:	ST-02, AST-04, MDA-04, MDA-07, MMS-01, and MWA-03. This determin
Comments Date:	12122000
Comments:	ation was based upon extensive field investigations, laboratory a
Comments Date:	12122000
Comments:	nalyses, and a through assessment of potential human health risk
Comments Date:	12122000
Comments:	assessments at each specific location. The results of the human
Comments Date:	12122000
Comments:	health risk assessment at these sites/AOCs do not present an unac
Comments Date:	12122000
Comments:	ceptable risk to human health or the environment. Therefore, sin
Comments Date:	12122000
Comments:	ce DTSC has determined that there is no possibility that the proj
Comments Date:	12122000
Comments:	ect may have a significant effect on the environment, the activit
Comments Date:	12122000
Comments:	y is not subject to CEQA.
Comments Date:	12131991
Comments:	A Visual Site Inspection was conducted by DTSC & Navy at the

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	12131991
Comments:	240+ sites identified by the draft RFA.
Comments Date:	12202001
Comments:	The ROD/RAP was issued on May 17, 2000 and signed by DTSC on Dece
Comments Date:	03032000
Comments:	re identified as potentially contaminated sites. Investigation a
Comments Date:	03032000
Comments:	nd cleanup work was conducted under the RCRA Stabilization as req
Comments Date:	03032000
Comments:	uired by the RCRA Permit. The Regional Water quality Control Boa
Comments Date:	03032000
Comments:	rd provided oversight of cleanup of petroleum contamination. DTSC
Comments Date:	03032000
Comments:	's Office of Military Facilities provided oversight of removal an
Comments Date:	03032000
Comments:	d remediation of hazardous material contamination and reviewed th
Comments Date:	03032000
Comments:	e final closure reports for the above sites in accordance with th
Comments Date:	03032000
Comments:	e RCRA and Comprehensive Environmental Recovery Compensation and
Comments Date:	03032000
Comments:	Liability Act (CERCLA) quidelines, and pursuant to the Federal Fa
Comments Date:	03032000
Comments:	cilities Site Remediation Agreement (FFSRA), signed on 8/18/1999.
Comments Date:	03032000
Comments:	Remedial actions were taken at these sites as follows: 1) At Si
Comments Date:	03032000
Comments:	tes ST-7, ST-21D and ST-82 the concrete slab was decontaminated u
Comments Date:	03032000
Comments:	sing mechanical scrubbing and pressure washing with detergent and
Comments Date:	03032000
Comments:	rinsed with source water. A rinsate sample was taken and tested
Comments Date:	03032000
Comments:	for metal and chlorinated solvents. In addition, soil samples wer
Comments Date:	03032000
Comments:	e taken and analyzed for the same chemicals. Levels found where
Comments Date:	03032000
Comments:	below action level. However rinse water was still collectedand tr
Comments Date:	03032000
Comments:	eated in the onsite thermal desorption unit (TDU) before being di
Comments Date:	03032000
Comments:	scharged into the sanitary sewer. 2) At Site ST-8, soil samples w
Comments Date:	03032000
Comments:	here taken and analyzed for TPH- extractable, Solvents, PCBs, and
Comments Date:	03032000
Comments:	metals. All samples were below PRGs. 3) At ST-21C, soil and gro
Comments Date:	03032000
Comments:	undwater samples where taken and screened for solvents, metals an
Comments Date:	03032000
Comments:	d petroleum. Methyl-Tertiary- Butyl-Ether MTBE was detected in th
Comments Date:	03032000
Comments:	e soil above action level. Impacted soil was removed and treated
Comments Date:	03032000
Comments:	on site at the local TDU, confirmation samples were taken. 4) At
Comments Date:	03032000
Comments:	ST-21E, soil samples were taken and analyzed for solvents. metals
Comments Date:	03032000

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	, PCBs, and petroleum. One sample indicated a high hit of benzo(a
Comments Date:	03032000
Comments:	)pyrene. Impacted soil was removed and treated on site at the lo
Comments Date:	03032000
Comments:	cal TDU, confirmation samples were taken. 5) At ST-2F the concret
Comments Date:	03032000
Comments:	e slab was decontaminated using mechani- cal scrubbing and pressu
Comments Date:	03032000
Comments:	re washing with detergent and rinsed with source water. A rinsat
Comments Date:	03032000
Comments:	e sample was taken and tested for metals, chlorinated solvents an
Comments Date:	03032000
Comments:	d PCBs. In addition, soil samples were taken and analyzed for the
Comments Date:	03032000
Comments:	same chemicals. Levels found where below action level. However
Comments Date:	03032000
Comments:	rinse water was still collected and treated in the onsite therma
Comments Date:	03032000
Comments:	l desorption unit before being dis- charged into the sanitary sew
Comments Date:	03032000
Comments:	er. 6) At ST-79, soil samples where taken and analyzed for TPH- e
Comments Date:	03032000
Comments:	xtractable, chlorinated Solvents, pesticides, PCBs, and metals. O
Comments Date:	03032000
Comments:	ne sample detected contained Aroclor-1260, and dieldrin above act
Comments Date:	03032000
Comments:	ion level. Impacted soil was removed and is being stockpilled an
Comments Date:	03032000
Comments:	d will be transported off site for storage.
Comments Date:	03152000
Comments:	PEA - MWA-05, TOW-06, UST-508, MWA-12, TOW-11, UST-251, MWA-13, T
Comments Date:	03152000
Comments:	OW-12, UST-252: Under a Resource Conservation and Recovery Act (R
Comments Date:	03152000
Comments:	CRA) Facility Assessment completed on MCAS Tustin in 1995, the ab
Comments Date:	03152000
Comments:	ove sites were identified as potentially contaminated sites. Reme
Comments Date:	03152000
Comments:	diation actions were taken at these sites as follows; 1) At Site
Comments Date:	03152000
Comments:	MWA-05, a total of 25 samples were collectedand tested for TPH-ex
Comments Date:	03152000
Comments:	tractable. TOW-06 and UST-508 were excavated confirmation samples
Comments Date:	03152000
Comments:	were taken. Sample results were below action levels. 2) At MWA-
Comments Date:	03152000
Comments:	12, the concrete pad was decontaminated and final rinsate samples
Comments Date:	03152000
Comments:	showed no detection of contamination. Risate water was collected
Comments Date:	03152000
Comments:	and treated on site before being discharged into the channel und
Comments Date:	03152000
Comments:	er the NPDES permit. In addition, soil samples were taken at MWA
Comments Date:	03152000
Comments:	-12, TOW-11, UST-251 after the removal of the oil/water separator
Comments Date:	03152000
Comments:	and the assigned Storage tank (UST-251). Samples collected trig

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	03152000
Comments:	gered an excavation of 156 tons of TPH impacted soil at UST-251 s
Comments Date:	03152000
Comments:	ite. Deeper confirmation samples indicated the removal of the imp
Comments Date:	03152000
Comments:	acted soil which was treated at the onsite Themal Desorption Unit
Comments Date:	03152000
Comments:	(TDU). 3) For MWA-13 the concrete pad was decontaminated and rin
Comments Date:	03152000
Comments:	sate samples were taken. Rinsate samples indicated no contaminat
Comments Date:	03152000
Comments:	ion present, however rinsate water was collected and treated loca
Comments Date:	03152000
Comments:	lly before being discharged into Peter Canyon Channel. For TOW-1
Comments Date:	03152000
Comments:	2 and UST-252, The oil/water and the tank were removed. Soil sam
Comments Date:	03152000
Comments:	ples taken at both sites triggered an excavation of TPH impacted
Comments Date:	03152000
Comments:	soil at UST-252. 82 tons of soil were removed and treated at the
Comments Date:	03152000
Comments:	local TDU.
Comments Date:	03171998
Comments:	CERFA - TUST2: Subsequent to the April 14, 1994 CERFA concurrence
Comments Date:	03171998
Comments:	, an additional environmental investigation and evaluation of the
Comments Date:	03171998
Comments:	MCAS Tustin found additional areas within the base that meets th
Comments Date:	03171998
Comments:	e CERFA uncontaminated criteria in accordance with the amendment
Comments Date:	03171998
Comments:	to Section 120(h)(4) of CERCLA. These areas included the agricult
Comments Date:	03171998
Comments:	ural land which were evaluated under a pesticide investigation in
Comments Date:	03171998
Comments:	1996. The investigation found these areas to contain pesticides
Comments Date:	03171998
Comments:	at concentrations within or below the statistical range for land
Comments Date:	03171998
Comments:	of similar use at MCAS Tustin and the levels are not a threat to
Comments Date:	03171998
Comments:	human health or the environment. Additional areas were also ident
Comments Date:	03171998
Comments:	ified based on the Base wide groundwater investigation of 1994. T
Comments Date:	03171998
Comments:	hese areas were found to be property upon which no hazardous subs
Comments Date:	03171998
Comments:	tances and no petroleum products or their derivatives were known
Comments Date:	03171998
Comments:	to have been released or disposed of, including no migration of t
Comments Date:	03171998
Comments:	hese substances from adjacent areas. These properties are eligib
Comments Date:	03171998
Comments:	le for CERFA concurrence.
Comments Date:	03212002
Comments:	RIFS - OU1B: IRP Sites 3 and 12. The Feasibility Study (FS) deve
Comments Date:	03212002

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	lops and evaluates potntial remedial alternatives to mitigate ris
Comments Date:	04262002
Comments:	specified restrictions, conditions and notifications set forth in
Comments Date:	04262002
Comments:	the FOSL.
Comments Date:	01092003
Comments:	PPP - REV: The CRP describes a comprehensive community relations
Comments Date:	01092003
Comments:	program being conducted in conjunction with the Installation Rest
Comments Date:	01092003
Comments:	oration Program (IRP) investigation and environmental cleanup act
Comments Date:	01092003
Comments:	ivities at the Former MCAS Tustin. The purpose of the CRP is two
Comments Date:	01092003
Comments:	fold: to identify concerns the community may have regarding clean
Comments Date:	01092003
Comments:	up efforts and to determine the best methods for conducting and e
Comments Date:	01092003
Comments:	nhancing communication between the Navy and the local community.
Comments Date:	01271997
Comments:	Base Wide Expanded Site Inspection/Preliminary
Comments Date:	01271997
Comments:	Endangerment Assessment completed on 12/17/1996.
Comments Date:	01271997
Comments:	All sites that may pose adverse risk to human health and
Comments Date:	01271997
Comments:	environment will be transferred either to the remedial
Comments Date:	01271997
Comments:	investigation program or to the removal program.
Comments Date:	01291997
Comments:	RIFS for Site 13 W - Engineering Evaluation/Cost Analysis for a r
Comments Date:	01291997
Comments:	emoval of petroleum and lead contaminated soils at Drum Storage A
Comments Date:	01291997
Comments:	rea No.3 located west of Building 16 (IRP-13W) Removal Action Wor
Comments Date:	01291997
Comments:	kplan (RAW) will be prepared to remove petroleum and lead contami
Comments Date:	01291997
Comments:	nated soils. RAW for Site 13 W - Removal of petroleum and lead
Comments Date:	01291997
Comments:	contaminated soils. Disposing of lead contaminated and high leve
Comments Date:	01291997
Comments:	l petroleum contaminated soils at proper land fills and treating
Comments Date:	01291997
Comments:	low level petroleum contaminated at the local thermal desorption
Comments Date:	01291997
Comments:	unit. A California Environmental Quality Act document was prepare
Comments Date:	01291997
Comments:	d and public noticed along with the RAW. A negative declaration w
Comments Date:	01291997
Comments:	as approved on November 7, 1996. CEQA for Site 13 W - Prepared
Comments Date:	01291997
Comments:	California Environmental Quality Act/Negative Declaration documen
Comments Date:	01291997
Comments:	t for a removal of petroleum and leadcontaminated soils. Disposin
Comments Date:	01291997
Comments:	g of lead contaminated and high level petroleum contaminated soil

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	01291997
Comments:	s at proper landfills and treating low level petroleum contaminat
Comments Date:	01291997
Comments:	ed soil at the local thermal desorption unit.
Comments Date:	01311997
Comments:	RIFS for Sites 2 & 9 - Engineering Evaluation/Cost Analysis
Comments Date:	01311997
Comments:	for a soil removal and treatment using on-site thermal
Comments Date:	01311997
Comments:	desorption.
Comments Date:	02012001
Comments:	PEA - SITE 18B: In 1995, a Resource Conservation and Recovery Act
Comments Date:	02012001
Comments:	(RCRA) FacilityAssessment was completed for MCAF Tustin. Site 18
Comments Date:	02012001
Comments:	B was identified as potentially contaminated site. Hand augar sa
Comments Date:	02012001
Comments:	mples were collected and contaminated soil was excavated. The res
Comments Date:	02012001
Comments:	ults of the screening risk asssessment showed acceptable levels a
Comments Date:	02012001
Comments:	nd support no further action.
Comments Date:	02062001
Comments:	PEA - MAW7 : Sites MAW-7, MAW-8 and MAW-16 each abandoned well wa
Comments Date:	02062001
Comments:	s closed according to Orange County Health Care Agency guidelines
Comments Date:	02062001
Comments:	. Samples were collected from the groundwater that was displaced
Comments Date:	02062001
Comments:	during backfilling of wells MAW-7 & MAW-16 with grout. The sampl
Comments Date:	02062001
Comments:	es were analyzed for disposal characterization purposes. A minima
Comments Date:	02062001
Comments:	l amount of water was produced during the grouting of MAW-8 and,
Comments Date:	02062001
Comments:	therefore, a sample was not collected. Analytical results for th
Comments Date:	02062001
Comments:	e groundwater samples were below either target cleanup levels or
Comments Date:	02062001
Comments:	laboratory reporting limits. Because soil samples were not colle
Comments Date:	02062001
Comments:	cted from Sites MAW-7, MAW-8 and MAW-16, a risk screening assessm
Comments Date:	02062001
Comments:	ent was not required.
Comments Date:	02072003
Comments:	PEA - ST16A&ST16B: The Site Inspection (SI) report summarizes the
Comments Date:	02072003
Comments:	results of previous investigations conducted at ST 16A and 16B.
Comments Date:	02072003
Comments:	The Navy found polycyclic aromatic hydrocarbons (PAH) in soils in
Comments Date:	02072003
Comments:	earlier investigations at these two sites. They completed a rem
Comments Date:	02072003
Comments:	oval action of contaminated soils in 1997. Post-removal soil sam
Comments Date:	02072003
Comments:	pling sound some additional contamination with PAH. The subject
Comments Date:	02072003

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	report documents the Department of the Navy's (DON's) risk screen
Comments Date:	02072003
Comments:	ing evaluation at the site and based on the risk estimates recomm
Comments Date:	02072003
Comments:	ends a No Further Action (NFA) site closure for ST16A and ST16B.
Comments Date:	02072003
Comments:	DTSC did not concur with the NFA recommendation.
Comments Date:	02272002
Comments:	DTSC reviewed and commented on the FOSL for Southern Parcels CO A
Comments Date:	02272002
Comments:	reas 1,2,3 and 4. DTSC concurs with the Navy that the Southern P
Comments Date:	02272002
Comments:	arcels CO Areas property is suitable for lease for the purposed i
Comments Date:	02272002
Comments:	ntended (commercial/business) subject to the conditions, notifica
Comments Date:	02272002
Comments:	tions, and restrictions set forth in the FOSL.
Comments Date:	03032000
Comments:	PEA - ST-7, ST-8, ST-21C, ST-21D, ST-21E, ST-21F, ST-79, and ST-
Comments Date:	03032000
Comments:	82: Under a Resource Conservation and Recovery Act (RCRA) Facilit
Comments Date:	03032000
Comments:	y Assessment completed on MCAS Tustin in 1995, the above sites we
Comments Date:	03212002
Comments:	ks to human health from groundwater, contaminated with volatile o
Comments Date:	03212002
Comments:	rganic compounds, principally trichloroethene (TCE), and related
Comments Date:	03212002
Comments:	organic solvents originated at Sites 3 and 12. This FS involved
Comments Date:	03212002
Comments:	screening technologies and associated process options according t
Comments Date:	03212002
Comments:	o effectiveness, implementability, and cost. The retained option
Comments Date:	03212002
Comments:	s were assembled into remedial alternatives and then evaluated ag
Comments Date:	03212002
Comments:	ainst regulatory criteria.
Comments Date:	03222000
Comments:	PEA - MDA-06, AME-05, MAE-06, MWA-01, UST-530B, TOW-X1 & TOW-X8:
Comments Date:	03222000
Comments:	Under a Resource Conservation and Recovery Act (RCRA) Facility As
Comments Date:	03222000
Comments:	sessment completed on MCAS Tustin in 1995, the above sites were i
Comments Date:	03222000
Comments:	dentified as potentially contaminated sites. Remediation actions
Comments Date:	03222000
Comments:	were taken at these sites as follows; 1) At Site MDA-06, 1,247 to
Comments Date:	03222000
Comments:	ns of impacted soil were removed, of which 901 tons were impacted
Comments Date:	03222000
Comments:	with Total Petroleum Hydrocarbons (TPH) and trace pesticides and
Comments Date:	03222000
Comments:	was transported for McKittrick Waste Management for disposal. T
Comments Date:	03222000
Comments:	he remaining 346 tons were impacted with lead and pesticides and
Comments Date:	03222000
Comments:	was transported to Chemical Waste Management's Class I treatment,

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	03222000
Comments:	storage and disposal facility. 2) MAE-05 was decontaminated usi
Comments Date:	03222000
Comments:	ng mechanical scrubbing and pressure washing with detergent and r
Comments Date:	03222000
Comments:	insed with source water. A rinsate sample was taken, and was fou
Comments Date:	03222000
Comments:	nd to contain endrin aldehyde, methylene chloride and bromodichlo
Comments Date:	03222000
Comments:	ro- methane with endrin aldehyde above action levels. The site wa
Comments Date:	03222000
Comments:	s decontaminated again and endrin aldehyde dropped to acceptable
Comments Date:	03222000
Comments:	levels. Two drums of paint chips were collected and shipped as no
Comments Date:	03222000
Comments:	n-RCRA hazardous waste to Chemical Waste Management's Facility, a
Comments Date:	03222000
Comments:	nd 3,000 gallons of decontamination water were collected in a Bak
Comments Date:	03222000
Comments:	er tank and treated on site at the carbon adsorption treatment un
Comments Date:	03222000
Comments:	it and properly discharged. 3) MAE-06 was decontaminated using m
Comments Date:	03222000
Comments:	echanical scrubbing and pressure washing with detergent and rinse
Comments Date:	03222000
Comments:	d with source water. A rinsate sample that contained calcium , ma
Comments Date:	03222000
Comments:	gnesium, sodium and zine was collected; these metals do not pose
Comments Date:	03222000
Comments:	a risk on human health or the environment. 4) MWA-01 was deconta
Comments Date:	03222000
Comments:	minated using mechanical scrubbing and pressure washing with dete
Comments Date:	03222000
Comments:	rgent and rinsed with source water. A rinsate sample containing
Comments Date:	03222000
Comments:	below action levels of trihalomethanes, bromodichlor- methane, ch
Comments Date:	03222000
Comments:	loroform, and dibromochloromethane was collected. Rinsate water f
Comments Date:	03222000
Comments:	rom the site was treated at the onsite carbon adsorption treatmen
Comments Date:	03222000
Comments:	t unit and discharged. 5) At UST-530B, approximately 926 tons of
Comments Date:	03222000
Comments:	TPH impacted soil were removed and treated at the on-site Therma
Comments Date:	03222000
Comments:	l Disorption Unit and 65,000 gallons of ground water were removed
Comments Date:	03222000
Comments:	and treated at the onsite carbon adsorption treatment unit and p
Comments Date:	03222000
Comments:	roperly discharged. 7) At TOW-X1, the oil/water separator was rem
Comments Date:	03222000
Comments:	oved, and approximately 78 tons of polychlorinated biphenyl (PCB)
Comments Date:	03222000
Comments:	/pesticide impacted soil were removed and transported to proper t
Comments Date:	03222000
Comments:	reatment and recycling facility. TOW-X8; The oil/water separator
Comments Date:	03222000

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	was removed and after collection of soil samples it was noted th
Comments Date:	03222000
Comments:	at all samples showed contamination below action levels.
Comments Date:	04182005
Comments:	This document is completed
Comments Date:	04222002
Comments:	FOST - FOST3: DTSC reviewed and commented on the FOST 3 for Parce
Comments Date:	04222002
Comments:	ls 23,29,34,35,36 and portions of 1,16,17,24,27,28,40, and 41 and
Comments Date:	04222002
Comments:	found parcel 36 and portions of 24 and 41 to be environmentoally
Comments Date:	04222002
Comments:	suitable for transfer for their intended use. DTSC is unble to
Comments Date:	04222002
Comments:	concur with the suitability of Parcels 1 and 17 for transfer. T
Comments Date:	04222002
Comments:	he 1998 MCAS Tustin Specific Plan/Reuse Plan Errata identifies Pa
Comments Date:	04222002
Comments:	rcels 1 and 17 as educational/recreational use. As a result, it
Comments Date:	04222002
Comments:	is possible that the reuse of these parcels could include school
Comments Date:	04222002
Comments:	sites, meaning kindergarden through grade 12 (elementary, middle
Comments Date:	04222002
Comments:	and high schools). Additional detail is not provided for Parcel
Comments Date:	04222002
Comments:	1 and the Base Realignment and Closure (BRAC) Business Plan 2002
Comments Date:	04222002
Comments:	(in review) designates the land use of Parcel 17 as a High School
Comments Date:	04222002
Comments:	. Pursuant to the California Education Code, section 17210 et se
Comments Date:	04222002
Comments:	q; a separate and comprehesive environmental review is required f
Comments Date:	04222002
Comments:	or sites where stat funds will be used for property acquisition o
Comments Date:	04222002
Comments:	r school construction. This review process includes an evaluatio
Comments Date:	04222002
Comments:	n of whether hazardous materials on the property have been or cou
Comments Date:	04222002
Comments:	ld be released that would endanger students. Because this separa
Comments Date:	04222002
Comments:	te environmental review has not been conducted for Parcels 1 and
Comments Date:	04222002
Comments:	17, DTSC cannot determine if these parcels are suitable for the i
Comments Date:	04222002
Comments:	ntended use. ' DTSC was unable to concur with the suitability of
Comments Date:	04222002
Comments:	Parcels 23, 29, 34, 35, and portions of Parcels 1, 16, 27, 28, an
Comments Date:	04222002
Comments:	d 40 for transfer. These parcels include buildings/structures wh
Comments Date:	04222002
Comments:	ere potential releases of lead from lead-based paint (LBP) were n
Comments Date:	04222002
Comments:	ot evaluated or where sufficient information was not provided for
Comments Date:	04222002
Comments:	DTSC to determine if LBP is a potential issue. DTSC considers t

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	04222002
Comments:	he presence of exterior LBP that has been released to the soil to
Comments Date:	04222002
Comments:	pose a potential release to the environment pursuant to the Comp
Comments Date:	04222002
Comments:	rehensive Environmental Response, Compensation, and Liability Act
Comments Date:	04222002
Comments:	(CERCLA) as amended by the Superfund Amendments and Reauthorizat
Comments Date:	04222002
Comments:	ion Act (SARA) of 1986.
Comments Date:	04262002
Comments:	FOSL - FOSL3: DTSC reviewed and commented on the FOSL 3. DTSC co
Comments Date:	04262002
Comments:	ncurs with the Navy that the property could be leased in a manner
Comments Date:	04262002
Comments:	that is protective of human health and the environment with the
Comments Date:	09192001
Comments:	and Portions of 40 and41 andfound Parcels 3 - 8, 10 - 12, 14, 42
Comments Date:	05172001
Comments:	PEA - MWA15: Analytical results for hand-auger, pothole, and exca
Comments Date:	05172001
Comments:	vation confirmation soil samples from Site MWA-15 were below the
Comments Date:	05172001
Comments:	target cleanup levels or laboratory reporting limits. These resu
Comments Date:	05172001
Comments:	lts indicate that soil at this site has not been impacted. Theref
Comments Date:	05172001
Comments:	ore, no further action is required for this site. PEA - UST89:
Comments Date:	05172001
Comments:	Analytical results for the confirmation soil sample collected fro
Comments Date:	05172001
Comments:	m the bottom floor of the excavation were below the target cleanu
Comments Date:	05172001
Comments:	p level or laboratory reporting limits, indicating that soil at t
Comments Date:	05172001
Comments:	he site has not been impacted. Therefore, no further action is r
Comments Date:	05172001
Comments:	equired for this site. PEA - MAE7: This is a miscellaneous air
Comments Date:	05172001
Comments:	emission area, consists of two separate areas: Building 273(Test
Comments Date:	05172001
Comments:	Cell) and Building 231 (Engine Test Area). The activities of PEA
Comments Date:	05172001
Comments:	included facility decontamination, collection and analysis of ri
Comments Date:	05172001
Comments:	nse water samples, and subsurface woil sampling using a hand auge
Comments Date:	05172001
Comments:	r. Analytical results for the rinse water samples and soil sample
Comments Date:	05172001
Comments:	s and soil samples were below source water (i.e., fire hydrant wa
Comments Date:	05172001
Comments:	ter) concentrations with the following exceptions: aluminum, bari
Comments Date:	05172001
Comments:	um, iron, molybdenum, selenium, and vanadium, which were below th
Comments Date:	05172001
Comments:	e tap water PRGs; and calcium, magnesium, and potassium, which ar
Comments Date:	05172001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	e common metals for which no PRGs have been established. Soil sa
Comments Date:	05172001
Comments:	mple results were below target cleanup levels and laboratory repo
Comments Date:	05172001
Comments:	rting limits, indicating that soils at the site were not impacted
Comments Date:	05172001
Comments:	. The results of the risk screening assessment indicate that con
Comments Date:	05172001
Comments:	centrations at Site MAE-07 pose acceptable risk levels. Therefore
Comments Date:	05172001
Comments:	, no further action is required.
Comments Date:	05201997
Comments:	Investigation of various AOC located throughout the base by revie
Comments Date:	05201997
Comments:	wing verious reports and identifying if a hazardous release occur
Comments Date:	05201997
Comments:	red or not. If this could not be identified by researching the hi
Comments Date:	05201997
Comments:	storical data, samples were collected and evaluated. All AOC that
Comments Date:	05201997
Comments:	were found to be hazardous will be treated under the remedial ac
Comments Date:	05201997
Comments:	tion process or the removal action process. This PEA was prepare
Comments Date:	05201997
Comments:	d to also satisfy RCRA Facility Assessment (RFA) requirements.
Comments Date:	05222001
Comments:	PEA : Facility decontamination and subsurface sampling was conduc
Comments Date:	05222001
Comments:	ted at eight sites. Excavation of impacted soil was performed at
Comments Date:	05222001
Comments:	Sites ST-36, ST-51, and ST-88. The contaminated soil was treate
Comments Date:	05222001
Comments:	d in a thermal desorption unit (TDU)located on site. In the no-L
Comments Date:	05222001
Comments:	andscaped excavated areas, non-impacted over- burden and treated
Comments Date:	05222001
Comments:	soil was used as backfill material. The excavation was compacted
Comments Date:	05222001
Comments:	to greater than 90 percent relative compaction to surface grade.
Comments Date:	05222001
Comments:	In the landscaped excavation areas or areas scheduled for demol
Comments Date:	05222001
Comments:	ition, no compaction testing was performed. ST-35, ST-89, ST-90
Comments Date:	05222001
Comments:	and ST-91 - Analytical results for rinse water and soil boring s
Comments Date:	05222001
Comments:	amples support no further action. ST-36 and ST-51 - Analytical
Comments Date:	05222001
Comments:	results for soil boring and confir- mation soil samples support n
Comments Date:	05222001
Comments:	o further action ST-72A - Results of the screening risk assessm
Comments Date:	05222001
Comments:	ent indicate that the concentrations at ST-72A pose acceptable ri
Comments Date:	05222001
Comments:	sk levels and support no further action. ST-88 - The analytical
Comments Date:	05222001
Comments:	results for the rinse water samples and the deeper soil sample r

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	05222001
Comments:	esults support no further action. However, the shallow hot spot a
Comments Date:	05222001
Comments:	reas with elevated concentrations of arsenic(as identified at ST-
Comments Date:	05222001
Comments:	86, ST-88, and MAE-03) will be addressed as a separate arsenic AO
Comments Date:	05222001
Comments:	C report.
Comments Date:	05292002
Comments:	DEED - OU3MW: The Department of Navy (DON) transferred the four
Comments Date:	05292002
Comments:	monitoring wells to the City of Tustin, the current owner of the
Comments Date:	05292002
Comments:	property. The purpose of the Land Use Covenant (LUC) is to
Comments Date:	05292002
Comments:	restrict the use of the property to provide for the protection of
Comments Date:	05292002
Comments:	human health, safety and the environment and to ensure continuing
Comments Date:	05292002
Comments:	enforcement of the protective covenants and agreements.
Comments Date:	05302001
Comments:	PEA - MWA10: The contaminated soil was treated in a thermal desor
Comments Date:	05302001
Comments:	ption unit (TDU) located on site. In the non-landscaped excavate
Comments Date:	05302001
Comments:	d areas, non-impacted overburden and treated soil was used as bac
Comments Date:	05302001
Comments:	kfill material. The excavation was compacted to greater than 90
Comments Date:	05302001
Comments:	percent relative compaction to surface grade. In the landscaped e
Comments Date:	05302001
Comments:	xcavation areas, no compaction testing was performed. Analytical
Comments Date:	05302001
Comments:	results for the rinse water samples, soil samples, and excavation
Comments Date:	05302001
Comments:	samples collected at the site was below source water concentrati
Comments Date:	05302001
Comments:	ons (collected from local fire hydrants), target cleanup levels,
Comments Date:	05302001
Comments:	or laboratory reporting limits. These results indicate that impa
Comments Date:	05302001
Comments:	cted soil at the site was removed. In addition, the results of th
Comments Date:	05302001
Comments:	e screening risk assessment support no further action.
Comments Date:	06042002
Comments:	PEA - ASAOC: The PEA was performed to evaluate the distribution o
Comments Date:	06042002
Comments:	f arsenic and dieldrin in the soil at Buildings 190 and 251 that
Comments Date:	06042002
Comments:	warrant cleanup or removal of affected soil. Sixty five soil sam
Comments Date:	06042002
Comments:	ples were collected from depths ranging from 6 inches to 6 feet b
Comments Date:	06042002
Comments:	elow ground surface. Elevated arsenic concentrations were detect
Comments Date:	06042002
Comments:	ed with the fill soil. It is recommended to conduct Human Health
Comments Date:	06042002

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	Risk Assessment to assist risk managers in determining the need
Comments Date:	06042002
Comments:	for further action.
Comments Date:	06121989
Comments:	Hazard Ranking complete. Score 12.12.
Comments Date:	06142004
Comments:	PEA-DSD7: The Site Inspection (SI) report summarizes the results
Comments Date:	06142004
Comments:	of previous investigations conducted at DSD-07. Based on the del
Comments Date:	06142004
Comments:	ineation results, DSD-07 does not appear to be the source of tric
Comments Date:	10222001
Comments:	epartment of Navy's decision to undertake a time-critical removal
Comments Date:	06262000
Comments:	ed on asphalt. The analytical results for soil samples from ST-60
Comments Date:	09192001
Comments:	and Parcels 25, 26, 30, 32, 33, 37and Portions 41 to be environm
Comments Date:	09192001
Comments:	entally suitable for transfer for their intended use. DTSC was
Comments Date:	09192001
Comments:	unable to concur on the suitability of Parcel 31 for transfer. T
Comments Date:	09192001
Comments:	he MCAS Tustin Specific Plan/Reuse Plan Errata (City of Tustin 19
Comments Date:	09192001
Comments:	98) identifies this parcel as future elementary school site. Pur
Comments Date:	09192001
Comments:	suant to the California Education Code, section 17210 et seq., a
Comments Date:	09192001
Comments:	separate and comprehensive environmental review is reuired for si
Comments Date:	09192001
Comments:	tes where state funds will be used for property acquisition or sc
Comments Date:	09192001
Comments:	hool construction. The Education Code requires that DTSC make a
Comments Date:	09192001
Comments:	determination as to the suitability of the property for school us
Comments Date:	09192001
Comments:	e based on this review. Thereview process includes an evaluation
Comments Date:	09192001
Comments:	of whether hazardous material on the property have been or could
Comments Date:	09192001
Comments:	be released that would endanger school students. Because this s
Comments Date:	09192001
Comments:	eparate environmental review has not been conducted for Parcel 31
Comments Date:	09192001
Comments:	DTSC was unable to determine if these parcel was suitable for us
Comments Date:	09192001
Comments:	e as elementary school sites and, therefore, we did not concur wi
Comments Date:	09192001
Comments:	th the Finding of Suitability for this parcel. In addition, DTS
Comments Date:	09192001
Comments:	C was unable to concur with the suitability of Parcel 4 and porti
Comments Date:	09192001
Comments:	ons of Parcel 40 for transfer. These parcels may have lead based
Comments Date:	09192001
Comments:	paint (LBP) that has been released to the soil. DTSC maintains th
Comments Date:	09192001
Comments:	at lead in soil from LBP is a Comprehensive Environmental Respons

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	09192001
Comments:	e, Compensation, and Libablity Act (CERCLA) release to the enviro
Comments Date:	09192001
Comments:	nment. Building 176 (Parcel No. 4), Buildings 180, 181, 182 (Parc
Comments Date:	09192001
Comments:	el No. 40), and Structure 237 (Parcel No. 4) were all constructed
Comments Date:	09192001
Comments:	prior to 1978, the year when lead based paint products were disc
Comments Date:	09192001
Comments:	ontinued. Navy did not conduct conduct soil sampling to determine
Comments Date:	09192001
Comments:	whether soils surrounding these buildings contain concentrations
Comments Date:	09192001
Comments:	of lead from LBP which may pose a threat to human health and the
Comments Date:	09192001
Comments:	environment. Until such sampling is performed, DTSC cannot deter
Comments Date:	09192001
Comments:	mine whether, pursuant to CERCLA 120(a)(3), all actions havebeen
Comments Date:	09192001
Comments:	taken at these two parcels to remedy potential releases of lead t
Comments Date:	09192001
Comments:	o the environment from LBP.
Comments Date:	09262000
Comments:	IRP 9A: Between July 1997 and September 1997, approximately 676 t
Comments Date:	09262000
Comments:	ons of PAH-contaminated soil and 25 tons of total petroleum hydro
Comments Date:	09262000
Comments:	carbon (TPH)-contaminated soil was excavated and treated from IRP
Comments Date:	09262000
Comments:	-9A Subareas 1 and 2 combined. The contaminated soil was transpor
Comments Date:	09262000
Comments:	ted to the on-site thermal desorption unit (TDU), treated, and tr
Comments Date:	09262000
Comments:	ansported back to IRP-9A for use as backfill in the excavation. T
Comments Date:	09262000
Comments:	he removal action at IRP 9A Subarea 2 encompassed the boundaries
Comments Date:	09262000
Comments:	of two STs: ST-40A and ST-40B. The remaining STs were outside the
Comments Date:	09262000
Comments:	excavation limits of the removal action. IRP 9B: Between Octob
Comments Date:	09262000
Comments:	er 1998 and January 1999, approximately 3788 tons of PAH-contamin
Comments Date:	09262000
Comments:	ated soil from IRP 9B Subarea 1 and 3049 tons of PAH-contaminated
Comments Date:	09262000
Comments:	soil from IRP 9B Subarea 3 were excavated and treated. The conta
Comments Date:	09262000
Comments:	minated soil was transported to the on-site thermal desorption un
Comments Date:	09262000
Comments:	it (TDU), treated, and transported back to IRP-9B for use as back
Comments Date:	09262000
Comments:	fill in the excavation. The removal action at IRP 9B Subarea 1 en
Comments Date:	09262000
Comments:	compassed the boundaries of two STs: ST-47A and ST-47B. Based o
Comments Date:	09262000
Comments:	n the post-removal action human health risk assessment, it was de
Comments Date:	09262000

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	termined that exposure to the remaining soil and residual PAH con
Comments Date:	09262000
Comments:	centrations at IRP 9A and IRP 9B would result in a human health
Comments Date:	09262000
Comments:	risk well within the acceptable range for resident children and i
Comments Date:	09262000
Comments:	ndustrial workers, and at the NCP point of depature for resident
Comments Date:	09262000
Comments:	adults, as defined by the EPA for unrestricted residential or ind
Comments Date:	09262000
Comments:	ustrial use.
Comments Date:	09272001
Comments:	FOST - FOST1: DTSC reviewed and commented on the FOST for Parcels
Comments Date:	09272001
Comments:	3, 21, 38, 39, and Portions of 40 and found Parcels 3, 38 and po
Comments Date:	09272001
Comments:	rtions of 40 to be environmentally suitable for transfer for thei
Comments Date:	09272001
Comments:	r intended use as transitional/emergency housing, community park/
Comments Date:	09272001
Comments:	road and transportation/circulation facilities, respectively. D
Comments Date:	09272001
Comments:	TSC was unable to concur on the suitaility of Parcels 21 and 39 f
Comments Date:	09272001
Comments:	or transfer. The MCAS Tustin Specific Plan/Reuse Plan Errata (Ci
Comments Date:	09272001
Comments:	ty of Tustin 1998) indentifies these parcels as future elementary
Comments Date:	09272001
Comments:	school sites. Pursuant to the California Education Code, sectio
Comments Date:	09272001
Comments:	n 17210 et seq., a separate and comprehensive environmental revie
Comments Date:	09272001
Comments:	w is required for sites where state funds will be used for proper
Comments Date:	09272001
Comments:	ty acquisition or school construction. The Education Code requir
Comments Date:	09272001
Comments:	es that DTSC make a determination as to the suitability of the pr
Comments Date:	09272001
Comments:	operty for school use based on this review. The review process in
Comments Date:	09272001
Comments:	cludes an evaluation of whether hazardous materials on th propert
Comments Date:	09272001
Comments:	y have been or could be released that would endanger school stude
Comments Date:	09272001
Comments:	nts. Because this separate environmental review has not been con
Comments Date:	09272001
Comments:	ducted for Parcels 21 and 39 , DTSC was unable to determine if th
Comments Date:	09272001
Comments:	ese parcels were suitable for use as elementary school sites and,
Comments Date:	09272001
Comments:	therefore, we did not concur with the finding of Suitability for
Comments Date:	09272001
Comments:	these two parcels.
Comments Date:	10171991
Comments:	A Meeting was held at El Toro MCAS to discuss scheduling of base
Comments Date:	10171991
Comments:	closure and activities necessary. A Federal Facilities Site Reme

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	10171991
Comments:	diation Agreement draft was sent to the base comm- ander. Navy S
Comments Date:	10171991
Comments:	WDIV decided to negotiate a "blanket" FFSRA to cover all 23 bases
Comments Date:	10171991
Comments:	in SWDIV.
Comments Date:	10222001
Comments:	RAW - TCRA1A: An Action Memorandum/Removal Action Work Plan (AM/
Comments Date:	10222001
Comments:	action (TCRA) to initiate grounwater extraction to hydraulically
Comments Date:	10222001
Comments:	contain groundwater contaminated with volatile organic compounds
Comments Date:	10222001
Comments:	(VOCs), principall 1,2,3-TCP. The TCRA will eliminate further d
Comments Date:	10222001
Comments:	owngradient migration of contaminated ground- water and prevent v
Comments Date:	10222001
Comments:	ertical migration to the underlying regional aquifer. The extract
Comments Date:	10222001
Comments:	ed groundwater will be treated using granular activated carbon (G
Comments Date:	10222001
Comments:	AC) and discharged to Peters Canyou Channel through a storm drain
Comments Date:	10222001
Comments:	or injected back to the aquifer. Discharge to Peters Canyon Cha
Comments Date:	10222001
Comments:	nnel will comply with the substantive provisions of Regional Wate
Comments Date:	10222001
Comments:	r Quality Control Board (RWQCB), Santa Ana Region, Order Number
Comments Date:	10222001
Comments:	96-18, General National Pollution Discharge Elimination System (N
Comments Date:	10222001
Comments:	PDES) Permit Number CAG918001. Discharge will also comply with su
Comments Date:	10222001
Comments:	pplementary RWQCB requirements (e.g. discharge limits for 1,2,3-T
Comments Date:	10222001
Comments:	CP) that are not included in the General Permit. DTSC approved t
Comments Date:	10222001
Comments:	he AM/RAW on August 17, 2001.
Comments Date:	10292004
Comments:	This task is completed
Comments Date:	11051999
Comments:	ORDER(FFSRA) - BASEWIDE: DTSC entered into an enforceable agreeme
Comments Date:	11051999
Comments:	nt with the United States Navy for the Marine Corps Air Station l
Comments Date:	11051999
Comments:	ocated in Tustin, California on August 18, 1999. Elsie L. Muncel
Comments Date:	11051999
Comments:	l, the Deputy Assistant Secretary of the Navy (Environment & Safe
Comments Date:	11051999
Comments:	ty) and John Scandura, Chief of the Southren California Branch of
Comments Date:	11051999
Comments:	the Military Facilities, signed the Federal Facilities Site Reme
Comments Date:	11051999
Comments:	diation Agreement(FFSRA). The purpose of the agreement was to ens
Comments Date:	11051999
Comments:	ure that the Navy’s corrective action obligations required by the
Comments Date:	11051999

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	Resource Conservation and Recovery Act (RCRA) permit, are compli
Comments Date:	11051999
Comments:	ed with environmental impacts associated with past military activ
Comments Date:	11051999
Comments:	ities at the facility are investigated and that the appropriate c
Comments Date:	11051999
Comments:	orrective, removal and/or remedial actions are taken as necessary
Comments Date:	11051999
Comments:	. The FFSRA provides for DTSC review and approval of a Site Manag
Comments Date:	11051999
Comments:	ement Plan (SMP), document submittals, and quarterly progress rep
Comments Date:	11051999
Comments:	ort in accordance with specified deadlines.
Comments Date:	11182004
Comments:	orps is proposing no further action (no further testing or cleanu
Comments Date:	11182004
Comments:	p) for six sites because either no contamination was found, or th
Comments Date:	11182004
Comments:	e contamination is at such low levels that it does not pose signi
Comments Date:	11182004
Comments:	ficant risk. The Department of Toxic Substances Control (DTSC) c
Comments Date:	11182004
Comments:	oncurs with this determination for the sites described aboveD
Comments Date:	11182004
Comments:	TSC approved the CEQA Notice of Exemption on September 9. 2004.
Comments Date:	11182004
Comments:	OU-1A consists of a vehicle maintenance facility and wash pad kno
Comments Date:	11182004
Comments:	wn as IRP Site 13S. The site includes Buildings 16 and 50, forme
Comments Date:	11182004
Comments:	rly used for vehicle maintenance, and a former wash pad. The bui
Comments Date:	11182004
Comments:	ldings and wash pad occupy an area of approximately 3,400 square
Comments Date:	11182004
Comments:	yards in the northwestern corner of former MCAS Tustin. The late
Comments Date:	11182004
Comments:	ral extent of the associated 1,2,3-trichloropropane (1,2,3-TCP) g
Comments Date:	11182004
Comments:	roundwater plume is approximately 27 acres. VOCs are the contami
Comments Date:	11182004
Comments:	nants of concern at IRP-13S. The Navy proposes to remediate
Comments Date:	11182004
Comments:	soil and groundwater contaminated by hazardous substances at Oper
Comments Date:	11182004
Comments:	able Unit (OU) 1A, Site 13S, which are located on the former Mari
Comments Date:	11182004
Comments:	ne Corps Air Station (MCAS) Tustin. DTSC has prepared a revised
Comments Date:	11182004
Comments:	initial study pursuant to the requirements of the California Envi
Comments Date:	11182004
Comments:	ronmental Quality Act(CEQA, Section 21000 et.seq., California Pub
Comments Date:	11182004
Comments:	lic Resources Code) and implementing Guideline (Section 15000 et
Comments Date:	11182004
Comments:	seq., Title 14, California Code of Regulations). Based upon this
Comments Date:	11182004
Comments:	analysis, DTSC has determined that the proposed project will not

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	11182004
Comments:	have a significant effect upon the environment and a Negative Dec
Comments Date:	11182004
Comments:	laration was prepared.DTSC approved the CEQA Notice of Determ
Comments Date:	11182004
Comments:	ination on November 18, 2004.
Comments Date:	11182004
Comments:	OU-1B consists of a paint stripper disposal area known as IRP-3 t
Comments Date:	11182004
Comments:	hat occupies approximately 1.4 acres. The site includes seven bu
Comments Date:	11182004
Comments:	ildings, several of which were used for chemical storage, paintin
Comments Date:	11182004
Comments:	g, and paint stripping operations from 1967 to 1999 when military
Comments Date:	11182004
Comments:	activities were discontinued. Solvents, paint strippers, batter
Comments Date:	11182004
Comments:	y acids, and water used for washing inactive oil/water separators
Comments Date:	11182004
Comments:	were reportedly poured directly onto the ground outside some of
Comments Date:	11182004
Comments:	the buildings. In addition, OU-1B consists of a drum storage area
Comments Date:	11182004
Comments:	known as IRP-12 occupies a total area of about 3.5 acres. The s
Comments Date:	11182004
Comments:	ite was used by the Marine Corps primarily for materials storage
Comments Date:	11182004
Comments:	and warehouse functions from the mid-1960s to 1975. Solvents, mot
Comments Date:	11182004
Comments:	or oil, and hydraulic fluids were stored in this area. The
Comments Date:	11182004
Comments:	Navy proposes to remediate soil and groundwater contaminated by h
Comments Date:	11182004
Comments:	azardous substances at Operable Unit (OU) 1B, Sites 3 and 12, whi
Comments Date:	11182004
Comments:	ch are located on the former Marine Corps Air Station (MCAS) Tust
Comments Date:	11182004
Comments:	in. DTSC has prepared a revised initial study pursuant to the re
Comments Date:	11182004
Comments:	quirements of the California Environmental Quality Act(CEQA, Sect
Comments Date:	11182004
Comments:	ion 21000 et.seq., California Public Resources Code) and implemen
Comments Date:	11182004
Comments:	ting Guideline (Section 15000 et seq., Title 14, California Code
Comments Date:	11182004
Comments:	of Regulations). Based upon this analysis, DTSC has determined th
Comments Date:	11182004
Comments:	at the proposed project will not have a significant effect upon t
Comments Date:	11182004
Comments:	he environment and a Negative Declaration was prepared.DTSC a
Comments Date:	11182004
Comments:	pproved the CEQA Notice of Determination on November 18, 2004.
Comments Date:	11182004
Comments:	Installation Restoration Program (IRP) Sites IRP-5N, IRP-5S(b), I
Comments Date:	11182004
Comments:	RP-8, IRP-11 (Area A), and IRP-16 and Area of Concern* (AOC) MMS-
Comments Date:	06262000

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	A and ST-80 were below target cleanup levels. The results of the
Comments Date:	06262000
Comments:	screening risk assessment indicate that concentrations at ST-60A
Comments Date:	06262000
Comments:	and ST-80 pose acceptable risk levels.
Comments Date:	06262003
Comments:	OM: This Operation and Maintenance Plan (OMP) presents inspection
Comments Date:	06262003
Comments:	and maintenance, Long-Term Monitoring (LTM), and contingency pla
Comments Date:	06262003
Comments:	ns, including frequency of monitoring and reporting requirements
Comments Date:	06262003
Comments:	to be used in support of the final remedy selected for OU-3, with
Comments Date:	06262003
Comments:	the goal of protecting human health and the environment. Detaile
Comments Date:	06262003
Comments:	d descriptions of requirements for conducting fieldwork and data
Comments Date:	06262003
Comments:	management activities are presented as attachments to this OMP in
Comments Date:	06262003
Comments:	cluding Land-Use Control Implementation and Certification Plan.
Comments Date:	08172001
Comments:	CEQA - RA1A: An Initial Study and a Negative Declaration were pre
Comments Date:	08172001
Comments:	pared by Department of Toxic Substances Control (DTSC) for a time
Comments Date:	08172001
Comments:	-critical removal action (TCRA) for IRP site 13S. The TCRA consis
Comments Date:	08172001
Comments:	ts of groundwater extraction to hydraulically contain groundwater
Comments Date:	08172001
Comments:	contaminated with volatile organic compounds (VOCs), principally
Comments Date:	08172001
Comments:	1,2,3-TCP. TCRA will eliminate further downgradient migration of
Comments Date:	08172001
Comments:	contaminated groundwater and prevent vertical migration to the u
Comments Date:	08172001
Comments:	nderlying regional aquifer. The extracted groundwater will be tr
Comments Date:	08172001
Comments:	eated using granular activated carbon (GAC) and discharged to Pet
Comments Date:	08172001
Comments:	ers Canyon Channel through a storm drain or injected back to the
Comments Date:	08172001
Comments:	aquifer. Discharge to Peters Canyon Channel will comply with the
Comments Date:	08172001
Comments:	substantive provisions of Regional Water Quality Control Board (
Comments Date:	08172001
Comments:	RWQCB), Santa Ana Region, Order Number 96-18, General National Po
Comments Date:	08172001
Comments:	llution Discharge Elimination System (NPDES) Permit Number CAG918
Comments Date:	08172001
Comments:	001. Discharge will also comply with supplementary RWQCB require
Comments Date:	08172001
Comments:	ments (e.g. discharge limits for 1,2,3-TCP) that are not included
Comments Date:	08172001
Comments:	in the General Permit. DTSC has found, on the basis of Initial S
Comments Date:	08172001
Comments:	tudy and comments received on the Negative Declaration, that ther

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	08172001
Comments:	e is no substantial evidence that this project will a significant
Comments Date:	08172001
Comments:	effect on the environment. The Notice of Determination was forw
Comments Date:	08172001
Comments:	arded to the Office of Environmental Analysis, Regulations and Au
Comments Date:	08172001
Comments:	dits 17, 2001 for filling.
Comments Date:	08271992
Comments:	Conditional approval of Navy's SI Report was granted. Navy perfo
Comments Date:	08271992
Comments:	rmed SI sampling of 9 sites that were recommended for further stu
Comments Date:	08271992
Comments:	dy in their Initial Assessment Study (IAS). The following sites w
Comments Date:	08271992
Comments:	ere recommended for RI in the report: Site 3 - Paint Stripper, Si
Comments Date:	08271992
Comments:	te 5 - Drainage No.1, Site 7 - Rapid Refuel Sta Site 12 - Drum St
Comments Date:	08271992
Comments:	g. area No.2, & Site 13 - Drum Stg. area No.3. Site 9 - Hangar N
Comments Date:	08271992
Comments:	o. 1 is recommended for removal & confirmation sampling. Site 15
Comments Date:	08271992
Comments:	- Blimp Hangar Disposal does not exist. Although Sites 2 & 8 we
Comments Date:	08271992
Comments:	re recommended NFA, DTSC disagreed because the area had been grad
Comments Date:	08271992
Comments:	ed and samples were not taken deep enough to test the original gr
Comments Date:	08271992
Comments:	ound.
Comments Date:	08312004
Comments:	RIFS - OU4: The shallow groundwater investigation was performed a
Comments Date:	08312004
Comments:	t sites where at least one VOC had been previously reported at co
Comments Date:	08312004
Comments:	ncentrations exceeding its maximum contaminant level (MCL). Discr
Comments Date:	08312004
Comments:	ete groundwater samples were collected at 121 locations using Hyd
Comments Date:	08312004
Comments:	roPunch sampling techniques and were analyzed for VOCs. Data obta
Comments Date:	08312004
Comments:	ined from the shallow groundwater investigation were used to revi
Comments Date:	08312004
Comments:	se risk assessments for some OU-4 sites and IRP-5N, IRP-5S(b), IR
Comments Date:	08312004
Comments:	P-8, IRP-11, IRP-16, MMS-04 Areas A and C were recommended for NF
Comments Date:	08312004
Comments:	A. DTSC concurs with this recommendation. RIFS - OU4: The shallo
Comments Date:	08312004
Comments:	w groundwater investigation was performed at sites where at least
Comments Date:	08312004
Comments:	one VOC had been previously reported at concentrations exceeding
Comments Date:	08312004
Comments:	its maximum contaminant level (MCL). Discrete groundwater sample
Comments Date:	08312004
Comments:	s were collected at 121 locations using HydroPunch sampling techn
Comments Date:	08312004

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	iques and were analyzed for VOCs. Data obtained from the shallow
Comments Date:	08312004
Comments:	groundwater investigation were used to revise risk assessments fo
Comments Date:	08312004
Comments:	r some OU-4 sites and IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, M
Comments Date:	08312004
Comments:	MS-04 Areas A and C were recommended for NFA. DTSC concurs with
Comments Date:	08312004
Comments:	this recommendation. RIFS - OU4: The shallow groundwater investig
Comments Date:	08312004
Comments:	ation was performed at sites where at least one VOC had been prev
Comments Date:	08312004
Comments:	iously reported at concentrations exceeding its maximum contamina
Comments Date:	08312004
Comments:	nt level (MCL). Discrete groundwater samples were collected at 12
Comments Date:	08312004
Comments:	1 locations using HydroPunch sampling techniques and were analyze
Comments Date:	08312004
Comments:	d for VOCs. Data obtained from the shallow groundwater investigat
Comments Date:	08312004
Comments:	ion were used to revise risk assessments for some OU-4 sites and
Comments Date:	08312004
Comments:	IRP-5N, IRP-5S(b), IRP-8, IRP-11, IRP-16, MMS-04 Areas A and C we
Comments Date:	08312004
Comments:	re recommended for NFA. DTSC concurs with this recommendation.
Comments Date:	09052003
Comments:	RIFS - OU1A: The Feasibility Study develops and evaluates potenti
Comments Date:	09052003
Comments:	al remedial alternatives to mitigate risks to human health from g
Comments Date:	09052003
Comments:	roundwater, contaminated with volatile organic compounds originat
Comments Date:	09052003
Comments:	ed at IRP Site 13S. This FS involved screening technologiesand a
Comments Date:	09052003
Comments:	ssociated process options according to effectiveness,implementabi
Comments Date:	09052003
Comments:	lity, and cost. The retained options were assembled into remedia
Comments Date:	09052003
Comments:	l alternatives and then evaluated against regulatory criteria.
Comments Date:	09122003
Comments:	Based upon DTSC's review of Final FOST #5 DTSC submitted a non-co
Comments Date:	09122003
Comments:	ncurrence letter
Comments Date:	09192001
Comments:	FOST - FOST2: DTSC reviewed and commented on the FOST for Southe
Comments Date:	09192001
Comments:	rn Parcels 4 - 8, 10 - 12, 14, 42 and Parcels 25, 26, 30 -33, 37
Comments Date:	06142004
Comments:	hloroethylene (TCE) contamination in the area. This is based on
Comments Date:	06142004
Comments:	the low levels of TCE found in shallow soils directly below the s
Comments Date:	06142004
Comments:	torm drain line to 6 feet below ground surface. The site data do
Comments Date:	06142004
Comments:	not indicate a release occured directly from DSD-07. Based on th
Comments Date:	06142004
Comments:	e information Navy requested No Further Action (NFA) for the site

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	06142004
Comments:	. DTSC did concur with the NFA recommendation.
Comments Date:	06192001
Comments:	BWEBS - BW: Department of Defense and Department of the Navy poli
Comments Date:	06192001
Comments:	cy and guidance documents, along with currently available informa
Comments Date:	06192001
Comments:	tion generated from on-site investigations, visual inspections, p
Comments Date:	06192001
Comments:	ersonnel interviews, regulatory records searches, aerial photogra
Comments Date:	06192001
Comments:	ph reviews, reviews of data for adjacent properties, and chain-of
Comments Date:	06192001
Comments:	-title searches, are the basis for this report. This Basewide EB
Comments Date:	06192001
Comments:	S Report supplements the April 1994 MCAS Tustin EBS for the Commu
Comments Date:	06192001
Comments:	nity Environmental Response Facilitation Act of 1992 Report and t
Comments Date:	06192001
Comments:	he April 1997 MCAS Tustin EBS for Parcels 6, 8B, 8C, 11A, 33, 38,
Comments Date:	06192001
Comments:	39, 41A, and 41B. CEQA - OU3: DTSC completd a Special Initial
Comments Date:	06192001
Comments:	Study to evaluate the potential for adverse environmental impact
Comments Date:	06192001
Comments:	for the Proposed remedial action identified in the Record of Deci
Comments Date:	06192001
Comments:	sion/Remedial Action Plan (ROD/RAP). The remedial action include
Comments Date:	06192001
Comments:	s application of institutional controls, inspection and maintenan
Comments Date:	06192001
Comments:	ce of the concrete containment wall and surface cover, monitoring
Comments Date:	06192001
Comments:	of ground water and surface water, monitoring of landfill gas, m
Comments Date:	06192001
Comments:	aintenance of the french drain system and associated sumps, perio
Comments Date:	06192001
Comments:	dic reviews of monitoring results, and preparation of a contingen
Comments Date:	06192001
Comments:	cy plan. Based on the Special Initial Study, a Negative Declarati
Comments Date:	06192001
Comments:	on was prepared pursuant to the provisions of CEQA. The draft Ne
Comments Date:	06192001
Comments:	gative Declaration was circulated for a 30-day public review and
Comments Date:	06192001
Comments:	comment period. DTSC has found, on the basis of the Special Initi
Comments Date:	06192001
Comments:	al Study and comments received on the Negative Declaration, that
Comments Date:	06192001
Comments:	there is no substantial evidence that the project will have a sig
Comments Date:	06192001
Comments:	nificant effect on the environment. PEA - PCL35 and PCL 21: The
Comments Date:	06192001
Comments:	Department of Navy has a lead-in-soil samplingprogram. Its obje
Comments Date:	06192001
Comments:	ctive, at MCAF Tustin is to evaluate potential lead-based paint h
Comments Date:	06192001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments:	azards in the soil adjacent to the housing units within the housi
Comments Date:	06192001
Comments:	ng areas costructed prior to 1978. Lead-based paint on the exteri
Comments Date:	06192001
Comments:	or of the houses could potentially flakeoff of the housing units
Comments Date:	06192001
Comments:	and impact soil in the yard and also in areas adjacent to the per
Comments Date:	06192001
Comments:	imeter of the house. A work plan was developed for the evaluatio
Comments Date:	06192001
Comments:	n of potential lead-based paint hazards in soil at the former hou
Comments Date:	06192001
Comments:	sing areas, one of which is Moffett Meadows (PCL 35) and Tustin V
Comments Date:	06192001
Comments:	illas (PCL21). The intent of the soil sampling at the housing are
Comments Date:	06192001
Comments:	as was to determine whether further evaluation was necessary prio
Comments Date:	06192001
Comments:	r to transferring the property for future use. Base on the sampl
Comments Date:	06192001
Comments:	ing results, it was determined that no further action was require
Comments Date:	06192001
Comments:	d for lead-based paint in soil at Moffett Meadows or at Tustin Vi
Comments Date:	06192001
Comments:	llas.
Comments Date:	06252004
Comments:	RAP - ASAOC: The Final Action Memeorandum (AM)/Remedial Action Pl
Comments Date:	06252004
Comments:	an (RAP) addresses a non-time critical removal action for removal
Comments Date:	06252004
Comments:	of soil contaminated with arsenic at the Arsenic Area of Concern
Comments Date:	06252004
Comments:	. The contaminated soil will be disposed at permitted off-site f
Comments Date:	06252004
Comments:	acility. The Removal Action for this site is deemed consistent w
Comments Date:	06252004
Comments:	ith Division 20, Chapter 6.8, California Health and Safety Code.
Comments Date:	06252004
Comments:	This removal action will reduce the human risk associted with ar
Comments Date:	06252004
Comments:	senic contaminated soil.
Comments Date:	06262000
Comments:	PEA - ST-5A, ST-12, ST-22, ST-37B, ST-39, ST-42, ST-45: 1.) ST-5A
Comments Date:	06262000
Comments:	and ST-12: The concrete pads were decontaminated and samples col
Comments Date:	06262000
Comments:	lected from the rinse water were below action levels. Soilsamples
Comments Date:	06262000
Comments:	were taken and results were also below action levels. 2.) ST-22:
Comments Date:	06262000
Comments:	Soil samples were collected and results were below action levels
Comments Date:	06262000
Comments:	. 3.) ST-37B: Results from soil samples triggered an excavation (
Comments Date:	06262000
Comments:	approximately 129 tons) of TPH-impacted soil. The soil was treat
Comments Date:	06262000
Comments:	ed at an on-site thermal desorption unit (TDU). confirmation samp

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments Date:	06262000
Comments:	ling indicated that all TPH-impacted soil had been removed. 4.) S
Comments Date:	06262000
Comments:	T-39 and ST-45: Results from soil samples triggered an excavation
Comments Date:	06262000
Comments:	(approximately 22.3 tons and 27 tons) from ST-39 and ST-45 respec
Comments Date:	06262000
Comments:	tively of PAH-impacted soil. The soil was treated at an on-site
Comments Date:	06262000
Comments:	thermal desorption unit (TDU). confirmation sampling indicated th
Comments Date:	06262000
Comments:	at all PAH-impacted soil had been removed. 5.) ST-42: The concret
Comments Date:	06262000
Comments:	e building was decontaminated and samples collected from the rins
Comments Date:	06262000
Comments:	e water were below action levels. Soil samples were taken and res
Comments Date:	06262000
Comments:	ults were also below action levels. PEA - ST-13A, ST-13B, ST-18
Comments Date:	06262000
Comments:	A, ST-26A, ST-34A, ST-46, ST-55, ST-60A, and ST-80: Facilit
Comments Date:	06262000
Comments:	y decontamination was conducted at Sites ST-13A, ST-18A, ST-26A,
Comments Date:	06262000
Comments:	ST-34A, ST-46, ST-55 and ST-56. A rinse water sample was taken a
Comments Date:	06262000
Comments:	nd analyzed for each of the above sites.Soil sampling was also co
Comments Date:	06262000
Comments:	nducted for each of these sites. Based on the results of the scr
Comments Date:	06262000
Comments:	eening risk assessment, the concentrations at sites ST-13A ST-13B
Comments Date:	06262000
Comments:	, ST-18A, ST-26A, ST-34A and ST-56 pose acceptable risk levels.
Comments Date:	06262000
Comments:	Soil sample results for ST-46 and ST-55 indicated that excavatio
Comments Date:	06262000
Comments:	n was required. All confirmation sample results for ST-46 and ST
Comments Date:	06262000
Comments:	- 55 were below target cleanup levels and the results of the scre
Comments Date:	06262000
Comments:	ening risk assessment indicate that concentrations at these two s
Comments Date:	06262000
Comments:	ites pose acceptable risk levels. Decontamination activities at
Comments Date:	12202001
Comments:	action for the Moffett Trenches and crash Crew Burn Pits site.
Comments Date:	12202001
Comments:	The major components of the selected remedial action for OU-3 are
Comments Date:	12202001
Comments:	institutional controls, groundwater and surface-water monitoring
Comments Date:	12202001
Comments:	, landfill gas monitoring, inspection and maintenance of the cont
Comments Date:	12202001
Comments:	ainment wall and cover, maintenance of the French drain system an
Comments Date:	12202001
Comments:	d associated sumps, maintenance of monitoring wells and security
Comments Date:	12202001
Comments:	features, and periodic reviews. In addition, the land use contro
Comments Date:	12202001

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Comments: ls include use restrictions, notification procedures, inspections
Comments Date: 12202001
Comments: of physical structures, contingency plans, and five-year reviews
Comments Date: 12202001
Comments: .
Comments Date: 12232004
Comments: REmedial Portion of the Soil is completed
Comments Date: 12302004
Comments: Changed the date
Comments Date: 11182004
Comments: 04 (Areas A and C). These sites comprise Operable Unit (OU) 4A a
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CA9170090022
ID Name: BEP DATABASE PCODE
ID Value: P43028
Alternate Name: TUSTIN MARINE CORPS AIR STATION
Alternate Name: Not reported
Special Programs Code: BRAC2
Special Programs Name: BASE REALIGNMENT & CLOSURE, 2ND ROUND
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

DEED:
Name: TUSTIN MARINE CORPS AIR STATION
Address: NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip: TUSTIN, CA 92710
Envirostor ID: 30970002
Area: OU-3
Sub Area: 1
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

Name: TUSTIN MARINE CORPS AIR STATION
Address: NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip: TUSTIN, CA 92710
Envirostor ID: 30970002
Area: TRANSFER PARCELS
Sub Area: ETP 24-1B
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

Name: TUSTIN MARINE CORPS AIR STATION
Address: NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip: TUSTIN, CA 92710
Envirostor ID: 30970002
Area: OU-3
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: ACTIVE

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

Name: TUSTIN MARINE CORPS AIR STATION
Address: NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip: TUSTIN, CA 92710
Envirostor ID: 30970002
Area: TRANSFER PARCELS
Sub Area: ETP-24-1A
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

Name: TUSTIN MARINE CORPS AIR STATION
Address: NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip: TUSTIN, CA 92710
Envirostor ID: 30970002
Area: MULTIPLE OUS - MULTIPLE SITES
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

PFAS:
Name: TUSTIN MARINE CORPS AIR STATION
Address: NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip: TUSTIN, CA 92710
Envirostor ID: 30970002
Program Type: STATE RESPONSE
Status: ACTIVE - LAND USE RESTRICTIONS
Status Date: 06/01/1986
Enviroscreen Score: 60-65%
Site Code: 400091, 401384
Global ID: Not reported
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: Envirostor
Location ID: Not reported
Matrix: Not reported

TUSTIN MARINE CORPS AIR STATION (Continued) **S101272797**

Chemical:	Not reported
Qualifier:	Not reported
Value:	Not reported
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	Not reported
Date:	Not reported
Field Pt Class:	Not reported
Site Use:	Not reported
Site Type:	Not reported
Latitude:	33.716388889
Longitude:	-117.83083333
Geo Tracker URL:	Not reported

AQUEOUS FOAM:

Object ID:	Not reported
Name:	TUSTIN MARINE CORPS AIR STATION
Address:	NEWPORT FREEWAY AT EDINGER AVENUE
City,State,Zip:	TUSTIN, CA
Airport ID:	Not reported
Airport Class:	Not reported
Lead Agency:	Not reported
Lead Agency Name:	Not reported
Contact URL:	Not reported
Global ID:	Not reported
Geotracker:	Not reported
Latitude:	33.716388889
Longitude:	-117.83083333
Envirostor ID:	30970002
Program Type:	STATE RESPONSE
Status:	ACTIVE - LAND USE RESTRICTIONS
Status Date:	6/1/1986
Calenviroscreen Score:	60-65%
Site Code:	400091, 401384

HIST CORTESE:

edr_fname:	TUSTIN MARINE CORPS AIR S
edr_fadd1:	NEWPORT FREEWAY AT EDINGE
City,State,Zip:	TUSTIN, CA 92710
Region:	CORTESE
Facility County Code:	30
Reg By:	CALSI
Reg Id:	30970002

34
NW
1/2-1
0.682 mi.
3603 ft.

SUPERIOR PROCESSING **ENVIROSTOR** **S110494357**
1582 PARKWAY LOOP #H **N/A**
TUSTIN, CA 92680

Relative:
Higher

Actual:
75 ft.

ENVIROSTOR:

Name:	SUPERIOR PROCESSING
Address:	1582 PARKWAY LOOP #H
City,State,Zip:	TUSTIN, CA 92680
Facility ID:	71003341

SUPERIOR PROCESSING (Continued) **S110494357**

Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.71915
Longitude:	-117.8276
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000130073
Alias Type:	EPA Identification Number
Alias Name:	71003341
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

---

35 WNW 1/2-1 0.744 mi. 3930 ft.

TUSTIN AIR FAC. SCHOOL SITE - PARCEL #1
VALENCIA AVENUE/RED HILL AVENUE
TUSTIN, CA 92780

ENVIROSTOR SCH **S107737480 N/A**

Relative: Higher

Actual: 73 ft.

ENVIROSTOR:

Name:	TUSTIN AIR FAC. SCHOOL SITE - PARCEL #1
Address:	VALENCIA AVENUE/RED HILL AVENUE
City,State,Zip:	TUSTIN, CA 92780
Facility ID:	30970011

TUSTIN AIR FAC. SCHOOL SITE - PARCEL #1 (Continued) **S107737480**

Status: Inactive - Needs Evaluation
Status Date: 04/28/2003
Site Code: 404293
Site Type: School Investigation
Site Type Detailed: School
Acres: 22.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Rebecca Chou
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 73
Senate: 37
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.71661
Longitude: -117.8311
APN: NONE SPECIFIED
Past Use: * NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-PROPOSED TUSTIN AIR FAC
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FAC. SCH SITE PARCEL 1 (PRO)
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FAC. SCH SITE PARCEL 1 (PROP)
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FACILITY SCH. SITE (PROPOSED)
Alias Type: Alternate Name
Alias Name: 404293
Alias Type: Project Code (Site Code)
Alias Name: 30970011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/28/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/11/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

TUSTIN AIR FAC. SCHOOL SITE - PARCEL #1 (Continued) **S107737480**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: TUSTIN AIR FAC. SCHOOL SITE - PARCEL #1
Address: VALENCIA AVENUE/RED HILL AVENUE
City,State,Zip: TUSTIN, CA 92780
Facility ID: 30970011
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 22.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: * Rebecca Chou
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404293
Assembly: 73
Senate: 37
Special Program Status: Not reported
Status: Inactive - Needs Evaluation
Status Date: 04/28/2003
Restricted Use: NO
Funding: School District
Latitude: 33.71661
Longitude: -117.8311
APN: NONE SPECIFIED
Past Use: * NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-PROPOSED TUSTIN AIR FAC
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FAC. SCH SITE PARCEL 1 (PRO)
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FAC. SCH SITE PARCEL 1 (PROP)
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FACILITY SCH. SITE (PROPOSED)
Alias Type: Alternate Name
Alias Name: 404293
Alias Type: Project Code (Site Code)
Alias Name: 30970011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/28/2003

TUSTIN AIR FAC. SCHOOL SITE - PARCEL #1 (Continued) **S107737480**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/11/2001
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

36
NW
1/2-1
0.745 mi.
3933 ft.

RED HILL/VALENCIA K-5 SCHOOL
RED HILL AVENUE/SANTA FE DRIVE
TUSTIN, CA 92780

ENVIROSTOR SCH **S105754260 N/A**

Relative: Higher

Actual: 75 ft.

ENVIROSTOR:

Name:	RED HILL/VALENCIA K-5 SCHOOL
Address:	RED HILL AVENUE/SANTA FE DRIVE
City,State,Zip:	TUSTIN, CA 92780
Facility ID:	30970014
Status:	No Further Action
Status Date:	04/08/2004
Site Code:	404371
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.74314
Longitude:	-117.8254
APN:	NONE SPECIFIED
Past Use:	* NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC:	Chlordane
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	RED HILL/VALENCIA K-5 SCHOOL
Alias Type:	Alternate Name
Alias Name:	TUSTIN UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name

RED HILL/VALENCIA K-5 SCHOOL (Continued) **S105754260**

Alias Name: TUSTIN USD-RED HILL/VALENCIA K-5 SCHOOL
Alias Type: Alternate Name
Alias Name: 404371
Alias Type: Project Code (Site Code)
Alias Name: 30970014
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/23/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/24/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/08/2004
Comments: DTSC issued a no further action

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: RED HILL/VALENCIA K-5 SCHOOL

RED HILL/VALENCIA K-5 SCHOOL (Continued) **S105754260**

Address:	RED HILL AVENUE/SANTA FE DRIVE
City,State,Zip:	TUSTIN, CA 92780
Facility ID:	30970014
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404371
Assembly:	73
Senate:	37
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/08/2004
Restricted Use:	NO
Funding:	School District
Latitude:	33.74314
Longitude:	-117.8254
APN:	NONE SPECIFIED
Past Use:	* NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC:	Chlordane
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	RED HILL/VALENCIA K-5 SCHOOL
Alias Type:	Alternate Name
Alias Name:	TUSTIN UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	TUSTIN USD-RED HILL/VALENCIA K-5 SCHOOL
Alias Type:	Alternate Name
Alias Name:	404371
Alias Type:	Project Code (Site Code)
Alias Name:	30970014
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	04/15/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	10/23/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/24/2002
Comments:	Not reported

RED HILL/VALENCIA K-5 SCHOOL (Continued) **S105754260**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	08/09/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	04/10/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	04/08/2004
Comments:	DTSC issued a no further action

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

37
WSW
1/2-1
0.779 mi.
4114 ft.

TUSTIN AIR FAC SCH. SITE/PARCELS 5,6,14
ARMSTRONG AVENUE/CARNEGIE AVENUE
TUSTIN, CA 92780

ENVIROSTOR SCH **S107737479 N/A**

Relative: Lower

Actual: 55 ft.

ENVIROSTOR:

Name:	TUSTIN AIR FAC SCH. SITE/PARCELS 5,6,14
Address:	ARMSTRONG AVENUE/CARNEGIE AVENUE
City,State,Zip:	TUSTIN, CA 92780
Facility ID:	30970012
Status:	Inactive - Needs Evaluation
Status Date:	05/13/2002
Site Code:	404282
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	100
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Rebecca Chou
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.70751

TUSTIN AIR FAC SCH. SITE/PARCELS 5,6,14 (Continued) **S107737479**

Longitude: -117.8351
APN: NONE SPECIFIED
Past Use: * NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-PRPSED TUSTINE MARINE CORP
Alias Type: Alternate Name
Alias Name: TUSTIN AIR FAC SCH./PAR #5,6,14 (PROP)
Alias Type: Alternate Name
Alias Name: TUSTIN MARINE SITE/PAR #5,6,14 (PROP)
Alias Type: Alternate Name
Alias Name: 404282
Alias Type: Project Code (Site Code)
Alias Name: 30970012
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/13/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 05/10/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: TUSTIN AIR FAC SCH. SITE/PARCELS 5,6,14
Address: ARMSTRONG AVENUE/CARNEGIE AVENUE
City,State,Zip: TUSTIN, CA 92780
Facility ID: 30970012
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED

TUSTIN AIR FAC SCH. SITE/PARCELS 5,6,14 (Continued) **S107737479**

Acres:	100
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Rebecca Chou
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404282
Assembly:	73
Senate:	37
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	05/13/2002
Restricted Use:	NO
Funding:	School District
Latitude:	33.70751
Longitude:	-117.8351
APN:	NONE SPECIFIED
Past Use:	* NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA ANA USD-PRPSED TUSTINE MARINE CORP
Alias Type:	Alternate Name
Alias Name:	TUSTIN AIR FAC SCH./PAR #5,6,14 (PROP)
Alias Type:	Alternate Name
Alias Name:	TUSTIN MARINE SITE/PAR #5,6,14 (PROP)
Alias Type:	Alternate Name
Alias Name:	404282
Alias Type:	Project Code (Site Code)
Alias Name:	30970012
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/13/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/11/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	05/10/2002
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

TUSTIN AIR FAC SCH. SITE/PARCELS 5,6,14 (Continued) **S107737479**

Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

J38 **MCKESSON CHEMICAL** **ENVIROSTOR** **S103627826**
NW **1302 INDUSTRIAL DRIVE** **N/A**
1/2-1 **TUSTIN, CA 92680**
0.897 mi.
4737 ft. **Site 1 of 2 in cluster J**

Relative: Higher

Actual: 81 ft.

ENVIROSTOR:

Name:	MCKESSON CHEMICAL COMPANY
Address:	1302 INDUSTRIAL DRIVE
City,State,Zip:	TUSTIN, CA 926800000
Facility ID:	80001441
Status:	No Action Required
Status Date:	10/05/2018
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	RWQCB
Lead Agency:	WQC
Program Manager:	Not reported
Supervisor:	Patrick Hsieh
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.72096
Longitude:	-117.8313
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD061601019
Alias Type:	EPA Identification Number
Alias Name:	30280149
Alias Type:	Envirostor ID Number
Alias Name:	80001441
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* CA Process is Terminated
Completed Date:	08/01/1984
Comments:	PA determined NFA
Completed Area Name:	PROJECT WIDE

MCKESSON CHEMICAL (Continued) **S103627826**

Completed Sub Area Name: Not reported
Completed Document Type: * CA Process is Terminated
Completed Date: 08/01/1984
Comments: PA conducted in August 1984 recommended No Further Action. There are no further Corr Action events.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 08/01/1984
Comments: Preliminary Assessment Summary dated August 1984. No specific date given. The PA recommended no further action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Other Instrument
Completed Date: 08/01/1984
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Name: MCKESSON CHEMICAL
Address: 1302 INDUSTRIAL DRIVE
City,State,Zip: TUSTIN, CA 92680
Facility ID: 30280149
Status: Refer: RCRA
Status Date: 09/01/1984
Site Code: 400368
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 73
Senate: 37
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.72101
Longitude: -117.8312
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * OXYGENATED SOLVENTS * UNSPECIFIED SOLVENT MIXTURES * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE

MCKESSON CHEMICAL (Continued) **S103627826**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: FOREMOST MCKESSON (DIV OF MCKESSON CORP)
Alias Type: Alternate Name
Alias Name: CAD061601019
Alias Type: EPA Identification Number
Alias Name: 400368
Alias Type: Project Code (Site Code)
Alias Name: 30280149
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/12/1983
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/24/1981
Comments: FACILITY IDENTIFIED FROM EPA NOTIS LIST

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/27/1994
Comments: DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/01/1984
Comments: SOURCE ACT: HW FAC PERMIT APPLI - INDUST CHEM DISTRIBUTION FAC. NO CHEM PACKING & BLENDING. STPRE TEMP & RESHIP TO RECYCLE T/C W/ J.GERRICK,MCKESSON CHEM,714-832- 7330,8/7/84 - YR OF OPER: 1973-PRESENT WASTE TYPE: TRICHLOROETHANE, FREON, TRICHLOROETHYLENE, METHYLENE CHLORIDE, PERCHLOROETHYLENE, ISOPROPANOL, MEK, TOLUENE, XYLENE. MARYLAND CORP PICK-UP SPENT SOLVENTS, SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

J39 **MCKESSON CHEM CO** **SEMS-ARCHIVE** **1000206095**
NW **1302 INDUSTRIAL DR** **CORRACTS** **CAD061601019**
1/2-1 **TUSTIN, CA 92780** **RCRA-TSDF**
0.897 mi. **RCRA-SQG**
4737 ft. **Site 2 of 2 in cluster J** **FINDS**
ECHO
Relative: **HWP**
Higher

Actual: **81 ft.**

SEMS Archive:

Site ID:	0901481
EPA ID:	CAD061601019
Name:	FOREMOST MCKESSON INC MCKESSON CHEM CO
Address:	1302 INDUSTRIAL DR
Address 2:	Not reported
City,State,Zip:	TUSTIN, CA 92680
Cong District:	40
FIPS Code:	06059
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0901481
EPA ID:	CAD061601019
Site Name:	FOREMOST MCKESSON INC MCKESSON CHEM CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1985-01-01 06:00:00
Finish Date:	1985-05-01 05:00:00
Qual:	N
Current Action Lead:	St Perf

Region:	09
Site ID:	0901481
EPA ID:	CAD061601019
Site Name:	FOREMOST MCKESSON INC MCKESSON CHEM CO
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	1980-08-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901481
EPA ID:	CAD061601019
Site Name:	FOREMOST MCKESSON INC MCKESSON CHEM CO
NPL:	N
FF:	N
OU:	00
Action Code:	VS

MCKESSON CHEM CO (Continued) **1000206095**

Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1985-05-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

CORRACTS:
Name: MCKESSON CHEM CO
Address: 1302 INDUSTRIAL DR
Address 2: Not reported
EPA ID: CAD061601019
Area Name: ENTIRE FACILITY
Corrective Action: PA OR CERCLA INSPECTION
Actual Date: 19840801
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCKESSON CHEM CO
Address: 1302 INDUSTRIAL DR
Address 2: Not reported
EPA ID: CAD061601019
Area Name: ENTIRE FACILITY
Corrective Action: CA PRIORITIZATION-LOW CA PRIORITY
Actual Date: 19850501
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCKESSON CHEM CO
Address: 1302 INDUSTRIAL DR
Address 2: Not reported
EPA ID: CAD061601019
Area Name: ENTIRE FACILITY
Corrective Action: CA PROCESS IS TERMINATED
Actual Date: 19840801
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCKESSON CHEM CO
Address: 1302 INDUSTRIAL DR
Address 2: Not reported
EPA ID: CAD061601019
Area Name: ENTIRE FACILITY
Corrective Action: CA PROCESS IS TERMINATED
Actual Date: 19840801
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

MCKESSON CHEM CO (Continued) **1000206095**

RCRA TSDF:

Treatment Storage and Disposal Type:	Storage
Full Enforcement Universe:	Not reported
Corrective Action Workload Universe:	No
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
Operating TSDF Universe:	Not reported
Commercial TSD Indicator:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes

RCRA Listings:

Date Form Received by Agency:	19921030
Handler Name:	Mckesson Chem Co
Handler Address:	1302 Industrial Dr
Handler City,State,Zip:	TUSTIN, CA 92780
EPA ID:	CAD061601019
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	4
Mailing Address:	1302 INDUSTRIAL DRIVE
Mailing City,State,Zip:	TUSTIN, CA 92680
Owner Name: Not reported	
Owner Type:	Not reported
Operator Name: Foremost Mckesson Inc	
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No

MCKESSON CHEM CO (Continued) **1000206095**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	Low
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020917
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: FOREMOST MCKESSON INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ONE POST STREET
Owner/Operator City,State,Zip:	SAN FRANCISCO, CA 94104
Owner/Operator Telephone:	415-983-7505
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: FOREMOST MCKESSON INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ONE POST STREET
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	415-983-7505
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

Historic Generators:

Receive Date:	19921030
Handler Name: MCKESSON CHEM CO	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800818
Handler Name: MCKESSON CHEM CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported

MCKESSON CHEM CO (Continued) **1000206095**

SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19840423
Actual Return to Compliance Date:	19840502
Return to Compliance Qualifier:	Observed

MCKESSON CHEM CO (Continued) **1000206095**

Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19850305
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19850326
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

Former Citation:	Not reported
Evaluation Date:	19870514
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870827
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19850326
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19840423
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19840502
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19860328
Evaluation Responsible Agency:	State
Found Violation:	No

MCKESSON CHEM CO (Continued) **1000206095**

Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19850131
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19850718
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

MCKESSON CHEM CO (Continued) **1000206095**

FINDS:
Registry ID: 110006467518

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000206095
Registry ID: 110006467518

DFR URL:
Name: MCKESSON CHEM CO
Address: 1302 INDUSTRIAL DR
City,State,Zip: TUSTIN, CA 92780

HWP:
EPA ID: CAD061601019
Name: MCKESSON CHEMICAL COMPANY
Address: 1302 INDUSTRIAL DRIVE
Cleanup Status: CLOSED
Latitude: 33.72096
Longitude: -117.8313
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Supervisor: Not reported
Site Code: Not reported
Senate District: 37
Assembly District: 73
Public Information Officer: Not reported
Commercial Offsite Facility Types: Not reported
Project Manager Lead: Not reported
Project Manager: Not reported
Permit Type: RCRA
Permit Effective Date: Not reported
Permit Expiration Date: Not reported
Calenviroscreen Score: 71-75%
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: Not reported
Quarterly Update: McKesson was a distributor of organic and inorganic chemicals. As service to it's customers, it temporarily stored drummed wastes before transporting to central recycling facilities. McKesson facility Recieved an operating permit on 8/27/84. The facility closed in 1985 (although closure plan is not available). A letter of 12/18/85 aknowledges receipt of certification of closure and states DHS considers McKesson to be closed and ISD is no longer in effect. Additionally, a letter from USEPA dated 1/25/1988 states that they

MCKESSON CHEM CO (Continued) **1000206095**

are in agreement the facility no longer operates as haz waste facility based on DHS's acknowledgement letter of 12/18/85 and inspection conducted on 5/21/87. For corrective action, a Preliminary Assessment was conducted in August 1984. The PA recommended no further action.

Activities:

EPA ID:	CAD061601019
Facility Type:	Historical - Non-Operating
Facility Name:	MCKESSON CHEMICAL COMPANY
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1984-08-27 00:00:00
Type:	RCRA
Title Description:	Imported 12/2011:PERMIT1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	New Operating Permit - CALL-IN LETTER ISSUED
Actual Date:	03/11/1983

EPA ID:	CAD061601019
Facility Type:	Historical - Non-Operating
Facility Name:	MCKESSON CHEMICAL COMPANY
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1984-08-27 00:00:00
Type:	RCRA
Title Description:	Imported 12/2011:PERMIT1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	11/28/1983

EPA ID:	CAD061601019
Facility Type:	Historical - Non-Operating
Facility Name:	MCKESSON CHEMICAL COMPANY
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1984-08-27 00:00:00
Type:	RCRA
Title Description:	Imported 12/2011:PERMIT1

MCKESSON CHEM CO (Continued) **1000206095**

Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 02/29/1984

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - PERMIT TERMINATED - TERMINATION RECEIVED
Actual Date: 08/27/1984

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - PERMIT TERMINATED - TERMINATION APPROVED
Actual Date: 11/20/1985

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1

MCKESSON CHEM CO (Continued) **1000206095**

Due Date: Not reported
Comments: Permit Issued, Permit Issued, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 08/27/1984

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/18/1980

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Permit Issued, Permit Issued, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 01/25/1988

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00

MCKESSON CHEM CO (Continued) **1000206095**

Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Permit Issued, Permit Issued, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 08/27/1984

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1984-08-27 00:00:00
Type: RCRA
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: New Operating Permit - TECHNICAL COMPLETE LETTER
Actual Date: 09/01/1983

Closure:
EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: Not reported
Title Description: Closure
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 12/18/1988

EPA ID: CAD061601019
Facility Type: Historical - Non-Operating
Facility Name: MCKESSON CHEMICAL COMPANY
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported

MCKESSON CHEM CO (Continued) **1000206095**

Type:	Not reported
Title Description:	Closure
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date:	12/02/1985

Alias:

EPA ID:	CAD061601019
Facility Type:	Historical - Non-Operating
Facility Name:	MCKESSON CHEMICAL COMPANY
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Envirostor ID Number
Alias:	30280149

40
South
1/2-1
0.905 mi.
4776 ft.

LAIDLAW TRANSIT
16281 CONSTRUCTION CIRCLE WEST
IRVINE, CA 92606

ENVIROSTOR **U003721246**
LUST **N/A**
Cortese
WDS

Relative:
Lower

Actual:
47 ft.

ENVIROSTOR:

Name:	LAIDLAW TRANSIT FACILITY
Address:	16281 CONSTRUCTION CIRCLE WEST
City,State,Zip:	IRVINE, CA 92606
Facility ID:	30470002
Status:	Refer: 1248 Local Agency
Status Date:	01/21/2000
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	ORANGE COUNTY
Lead Agency:	ORANGE COUNTY
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.69554
Longitude:	-117.8230
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	110012184572

LAIDLAW TRANSIT (Continued) **U003721246**

Alias Type: EPA (FRS #)
Alias Name: 30470002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 01/21/2000
Comments: DTSC is not involved with this project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: LAIDLAW TRANSIT
Address: 16281 CONSTRUCTION CIRCLE WEST
City,State,Zip: IRVINE, CA 926064412
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site

Geo Track:
Global Id: T0605910555
Latitude: 33.695467
Longitude: -117.823066
Status: Completed - Case Closed
Status Date: 08/31/2006
Case Worker: Not reported
RB Case Number: Not reported
Local Agency: Not reported
File Location: Local Agency Warehouse
Local Case Number: 06UT005
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Diesel
EPA Region: 9
Coordinate Source: Google Geocode
Quantity Released Gallons: 0
Begin Date: 07/12/2006
Leak Reported Date: 07/12/2006
How Discovered: Tank Closure
How Discovered Description: Not reported
Discharge Source: Piping
Discharge Cause: Not reported
Stop Method: Close and Remove Tank
Stop Description: Not reported
No Further Action Date: 08/31/2006
CA Water Watershed Name: Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name: Coastal Plain Of Orange County (8-001)
Disadvantaged Community: Not reported
CA Enviroscreen 3 Score: 76-80%

LAIDLAW TRANSIT (Continued) **U003721246**

CA Enviroscreen 4 Score: 60-65%
Military DOD Site: No
Facility Project Subtype: Not reported
RWQCB Region: SANTA ANA RWQCB (REGION 8)
Claim Number: Not reported
Claim Status: Not reported
Site History: Not reported

LUST:
Global Id: T0605910555
Contact Type: Regional Board Caseworker
Contact Name: JESSICA LAW
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: jessica.law@waterboards.ca.gov
Phone Number: 9517824381

LUST:
Global Id: T0605910555
Action Type: ENFORCEMENT
Date: 08/31/2006
Action: Closure/No Further Action Letter

Global Id: T0605910555
Action Type: ENFORCEMENT
Date: 07/18/2006
Action: Notice of Responsibility

Global Id: T0605910555
Action Type: Other
Date: 07/12/2006
Action: Leak Reported

Global Id: T0605910555
Action Type: Other
Date: 07/12/2006
Action: Leak Discovery

LUST:
Global Id: T0605910555
Status: Open - Case Begin Date
Status Date: 07/12/2006

Global Id: T0605910555
Status: Open - Site Assessment
Status Date: 07/14/2006

Global Id: T0605910555
Status: Completed - Case Closed
Status Date: 08/31/2006

ORANGE CO. LUST:
Name: LAIDLAW TRANSIT
Address: 16281 CONSTRUCTION CIRCLE WEST

LAIDLAW TRANSIT (Continued) **U003721246**

City,State,Zip: IRVINE, CA 926064412
Region: ORANGE
Facility Id: 06UT005
Current Status: CLOSED
Type of Closure: Closure certification issued
Released Substance: Not reported
Date Closed: 08/31/2006
File Location: Warehouse

CORTESE:
Name: LAIDLAW TRANSIT
Address: 16281 CONSTRUCTION CIRCLE WEST
City,State,Zip: IRVINE, CA 926064412
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0605910555
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

WDS:
Name: LAIDLAW IRVINE
Address: 16281 CONSTRUCTION CIR WEST
City: IRVINE
Facility ID: Santa Ana River 30I016115
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: Not reported
Facility Contact: DALE FUCHS
Agency Name: LAIDLAW TRANSIT-IRVINE
Agency Address: 14736 SAND CANYON AVE
Agency City,St,Zip: IRVINE 92618

LAIDLAW TRANSIT (Continued) **U003721246**

Agency Contact:	WAEL ELATAR
Agency Telephone:	9498577950
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

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41 **USARC SANTA ANNA** **ENVIROSTOR** **S107737516**
SW **N/A**
1/2-1 **SANTA ANA, CA**
0.986 mi.
5204 ft.

Relative: **Lower**
Actual: **44 ft.**

ENVIROSTOR:

Name:	USARC SANTA ANNA
Address:	Not reported
City,State,Zip:	SANTA ANA, CA
Facility ID:	80000499
Status:	Inactive - Needs Evaluation
Status Date:	08/14/2018
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Patrick Hsieh
Division Branch:	Cleanup Cypress
Assembly:	73
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA

USARC SANTA ANNA (Continued) **S107737516**

Latitude:	33.6997
Longitude:	-117.8339
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F565200
Alias Type:	Federal Facility ID
Alias Name:	J09CA0667
Alias Type:	INPR
Alias Name:	80000499
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/04/2017
Comments:	Draft site visit report uploaded to R drive for management review, comment and or concurrence.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 13 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ANAHEIM	S126983813	HOLLY W. DAVIDSON DUMP #1	SE OF GLASSEL & RIVERSIDE FWY.	92705	SWF/LF
ANAHEIM	S126983814	HOLLY E. DAVIDSON DUMP#2	SE OF NEWKIRK & RIVERSIDE FWY	92705	SWF/LF
ANAHEIM	S126983827	ANAHEIM CITY DUMP #7	SW OF SANTA ANA RIVER & LINCOL	92705	SWF/LF
ANAHEIM	S126983820	LA PALMA DUMP	S OF LA PALMA AND W OF HARBOR	92705	SWF/LF
BREA	S126983832	BREA CITY DUMP #1	SE CORNER OF RANDOLPH & BIRCH	92705	SWF/LF
IRVINE	S117541240	STONEGATE DEVELOPMENT	SOUTH OF PORTOLA & EAST OF JEF		CPS-SLIC, Orange Co. Ind Site
ORANGE	S126983805	ORANGE CITY DUMP #10	S OF WALNUT NEAR SANTIAGO CREE	92705	SWF/LF
ORANGE	S126983807	ORANGE CITY DUMP #2 SANTA ANA RIVE	N SIDE OF KATELLA BETWEEN MAIN	92705	SWF/LF
ORANGE	S126983808	ORANGE CITY DUMP #3	E SIDE OF CITY DR BTWN GRDN GR	92705	SWF/LF
ORANGE COUNTY	S107535233		6000 BLOCK OF E LA PALM RD		CDL
ORANGE COUNTY	S107537591		AT DEAD END OF BLACK STAR CYN,		CDL
TUSTIN	U004289812	TUSTIN MCAS - TUSTIN LEGACY PARK,	BARRANCA AVENUE AND TUSTIN RAN	92780	UST
TUSTIN	1029155857	TUSTIN BLIMP HANGAR FIRE	VALENCIA & ARMSTRONG	92780	SEMS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 2

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/18/2024
Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/11/2024
Date Data Arrived at EDR: 11/25/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 85

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 02/11/2025
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/18/2025
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 02/11/2025
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/18/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 69

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/21/2024
Date Data Arrived at EDR: 10/22/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/21/2024
Date Data Arrived at EDR: 10/22/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/06/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 86

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/12/2024
Date Data Arrived at EDR: 10/30/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 76
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 11/25/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 01/07/2025
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 11/26/2024
Date Data Arrived at EDR: 11/26/2024
Date Made Active in Reports: 02/20/2025
Number of Days to Update: 86

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/21/2024
Date Data Arrived at EDR: 10/22/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/11/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/03/2025
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/13/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 12/12/2024
Number of Days to Update: 27

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 12/09/2024
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 08/19/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 51

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/21/2024
Date Data Arrived at EDR: 10/22/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 76

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 08/19/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 51

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 07/29/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 10/17/2024
Number of Days to Update: 79

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/26/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/10/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 78

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 08/01/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 76

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 11/12/2024
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 70

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/07/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 12/30/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/03/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/27/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/10/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 7

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/03/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 24

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 10/23/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/02/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/12/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 33
Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/20/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/04/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2024
Date Data Arrived at EDR: 10/09/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 93

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/30/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/07/2025
Number of Days to Update: 16

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 12/30/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 02/12/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 15

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/19/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/03/2025
Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/19/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 27

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 30

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/18/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 50

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/10/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 69

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 06/04/2024
Date Data Arrived at EDR: 11/22/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 88

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/11/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 90

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/06/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/21/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/27/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 67

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/13/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/13/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/02/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 03/06/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/11/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 83

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 09/19/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 87

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Annually

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 08/29/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69

Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/26/2024
Number of Days to Update: 76

Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA: Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/14/2024
Number of Days to Update: 78

Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 09/10/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/25/2024
Number of Days to Update: 75

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/29/2024
Date Data Arrived at EDR: 11/07/2024
Date Made Active in Reports: 11/22/2024
Number of Days to Update: 15

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 03/13/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 08/23/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 71
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/06/2024
Number of Days to Update: 72
Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77
Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 71
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 09/03/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 10/02/2024
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 78
Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76
Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89
Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/14/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 02/05/2025
Number of Days to Update: 82
Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 84
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/11/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 76
Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/09/2024
Date Data Arrived at EDR: 10/10/2024
Date Made Active in Reports: 12/30/2024
Number of Days to Update: 81
Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/06/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 84
Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 87

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 87

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 12/27/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 03/13/2025
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 12/27/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/19/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/02/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/03/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 75

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/03/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Annually

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/07/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 87
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/05/2024
Date Data Arrived at EDR: 09/06/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 68
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Annually

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/25/2025
Number of Days to Update: 84
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/02/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/25/2025
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/12/2025
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/16/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 03/05/2025
Number of Days to Update: 77

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/21/2024
Date Data Arrived at EDR: 10/23/2024
Date Made Active in Reports: 01/13/2025
Number of Days to Update: 82

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/08/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/09/2024
Date Data Arrived at EDR: 10/11/2024
Date Made Active in Reports: 12/30/2024
Number of Days to Update: 80

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 10/31/2024
Date Data Arrived at EDR: 11/01/2024
Date Made Active in Reports: 01/17/2025
Number of Days to Update: 77

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/03/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/08/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/26/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 12/12/2024
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/06/2025
Date Data Arrived at EDR: 01/07/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 71

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/07/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/17/2024
Number of Days to Update: 75
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/03/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 07/09/2024
Date Made Active in Reports: 09/27/2024
Number of Days to Update: 80
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 83
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 83
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/21/2024
Date Data Arrived at EDR: 07/16/2024
Date Made Active in Reports: 10/07/2024
Number of Days to Update: 83
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/03/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/08/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 01/07/2025
Number of Days to Update: 82

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/08/2024
Date Data Arrived at EDR: 10/09/2024
Date Made Active in Reports: 10/31/2024
Number of Days to Update: 22

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 02/20/2025
Number of Days to Update: 37

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 10/31/2024
Date Data Arrived at EDR: 10/31/2024
Date Made Active in Reports: 01/24/2025
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/27/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/31/2024
Date Data Arrived at EDR: 10/31/2024
Date Made Active in Reports: 01/24/2025
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/27/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 36

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/27/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/19/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/08/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 12/05/2024
Date Data Arrived at EDR: 12/05/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 26
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 10/25/2024
Date Data Arrived at EDR: 10/29/2024
Date Made Active in Reports: 01/17/2025
Number of Days to Update: 80
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/12/2024
Date Data Arrived at EDR: 12/16/2024
Date Made Active in Reports: 03/05/2025
Number of Days to Update: 79

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/17/2024
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 10/28/2024
Date Data Arrived at EDR: 10/30/2024
Date Made Active in Reports: 01/21/2025
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 10/28/2024
Date Data Arrived at EDR: 10/30/2024
Date Made Active in Reports: 01/24/2025
Number of Days to Update: 86

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/06/2025
Number of Days to Update: 82

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 01/14/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/12/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 02/06/2025
Number of Days to Update: 85

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/06/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 02/26/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 11/19/2024
Date Made Active in Reports: 02/12/2025
Number of Days to Update: 85
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/03/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/05/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/12/2024
Number of Days to Update: 76

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/09/2024
Date Data Arrived at EDR: 10/11/2024
Date Made Active in Reports: 12/30/2024
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/09/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/22/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/08/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2024
Date Data Arrived at EDR: 07/17/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 6

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/13/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2024
Date Data Arrived at EDR: 07/18/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 5

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/13/2025
Next Scheduled EDR Contact: 04/28/2025
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/04/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 70
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/18/2024
Date Data Arrived at EDR: 09/25/2024
Date Made Active in Reports: 12/13/2024
Number of Days to Update: 79
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/17/2024
Date Data Arrived at EDR: 10/22/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 80
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/15/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/27/2025
Number of Days to Update: 83
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/23/2024
Next Scheduled EDR Contact: 04/14/2025
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/05/2025
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/06/2025
Next Scheduled EDR Contact: 04/21/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 02/26/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TUSTIN USD - DISTRICT OFFICE AND OUTDOOR AREA
NW OF VALENCIA AVE AND LEGACY RD
TUSTIN, CA 92782

TARGET PROPERTY COORDINATES

Latitude (North):	33.710962 - 33° 42' 39.46''
Longitude (West):	117.82073 - 117° 49' 14.63''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	423948.9
UTM Y (Meters):	3730217.5
Elevation:	59 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50006231 TUSTIN, CA
Version Date:	2022

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

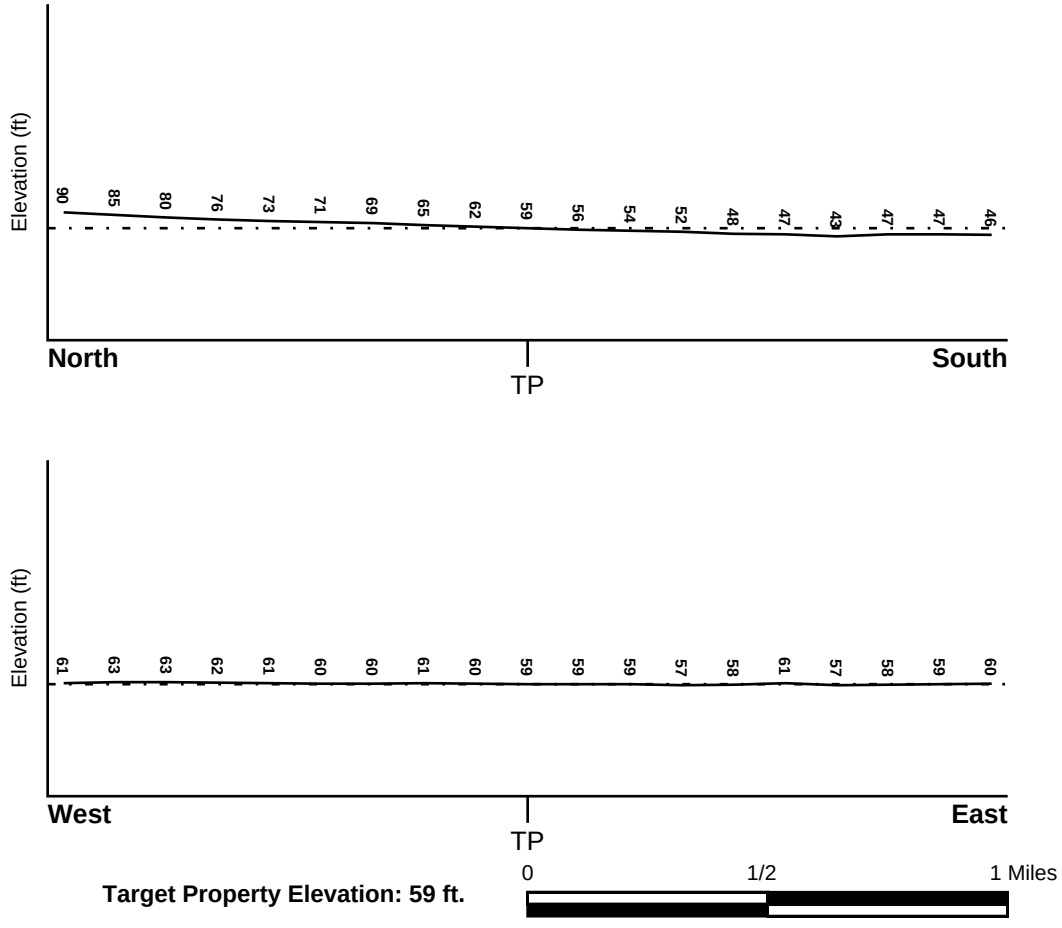
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 59 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06059C0279J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06059C0277J	FEMA FIRM Flood data
06059C0281J	FEMA FIRM Flood data
06059C0283J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
TUSTIN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile SE
Site Name:	Tustin Marine Corps Air Station
Site EPA ID Number:	CA9170090022
Surficial Aquifer Flow Dir.:	West
Inferred Depth to Water:	between 10 feet and 50 feet in the surficial semi-perched aquifer.
Hydraulic Connection:	A clay layer separates the surficial and lower aquifers.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
21	1/2 - 1 Mile NW	SSW, W
39	1/2 - 1 Mile ENE	W
47	1/2 - 1 Mile South	SE
48	1/2 - 1 Mile West	S
1G	1/2 - 1 Mile NW	SSW, W
2G	1/2 - 1 Mile ENE	W
3G	1/2 - 1 Mile West	S
4G	1/2 - 1 Mile South	SE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

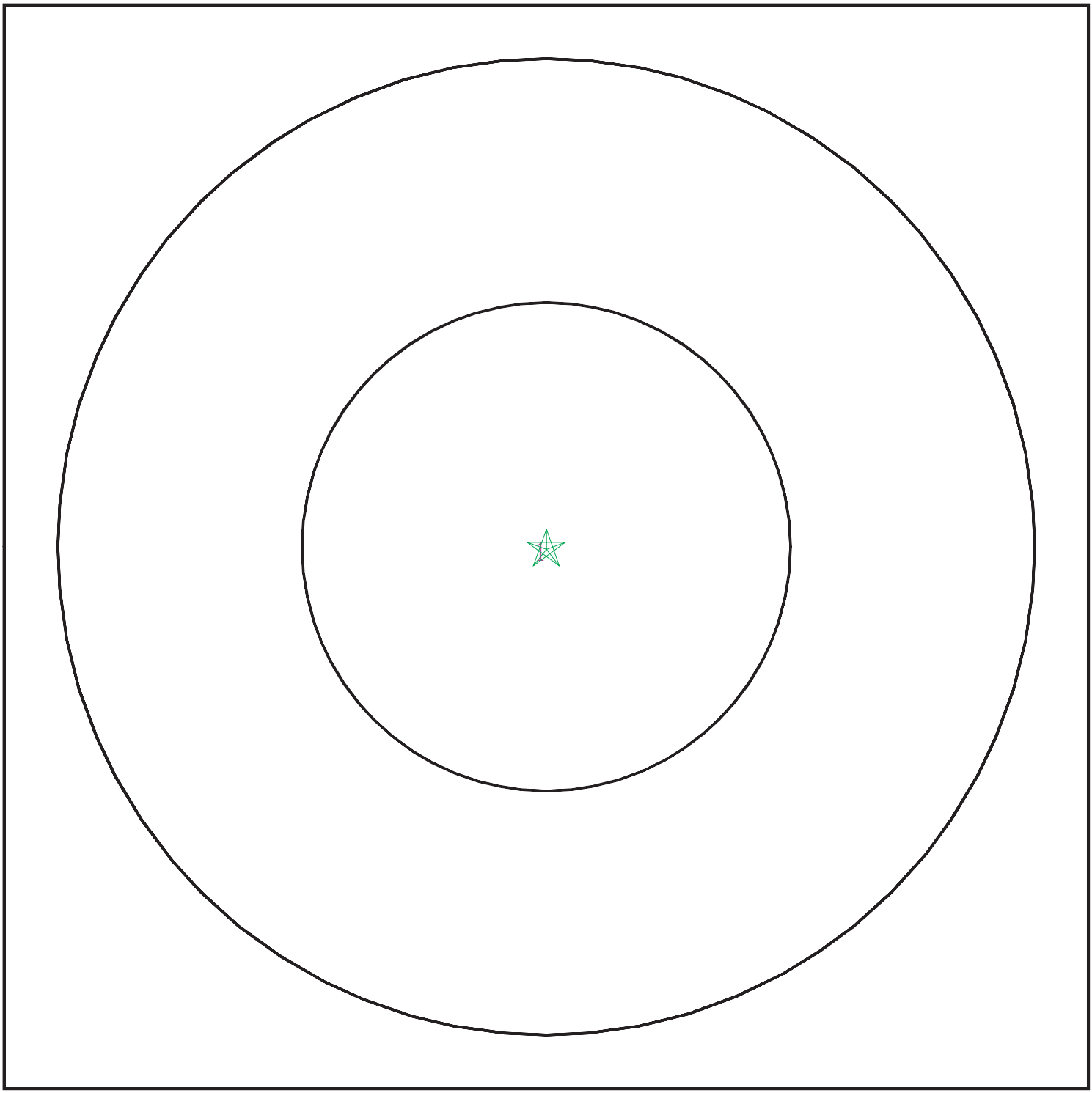
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7936069.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Tustin USD - District Office and Outdoor Area	CLIENT:	Padre Associates, Inc
ADDRESS:	NW of Valencia Ave and Legacy Rd Tustin CA 92782	CONTACT:	Alan Klein
		INQUIRY #:	7936069.2s
LAT/LONG:	33.710962 / 117.82073	DATE:	March 24, 2025 7:45 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CHINO

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	24 inches	silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	24 inches	59 inches	sandy clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C9	USGS40000137277	1/2 - 1 Mile WNW
D11	USGS40000137288	1/2 - 1 Mile ENE
E14	USGS40000137350	1/2 - 1 Mile NW
F15	USGS40000136938	1/2 - 1 Mile ENE
G19	USGS40000137018	1/2 - 1 Mile SE
I24	USGS40000137017	1/2 - 1 Mile SE
G25	USGS40000137009	1/2 - 1 Mile SE
H43	USGS40000137304	1/2 - 1 Mile ENE
I49	USGS40000136994	1/2 - 1 Mile SE
I50	USGS40000136995	1/2 - 1 Mile SE
I51	USGS40000136977	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

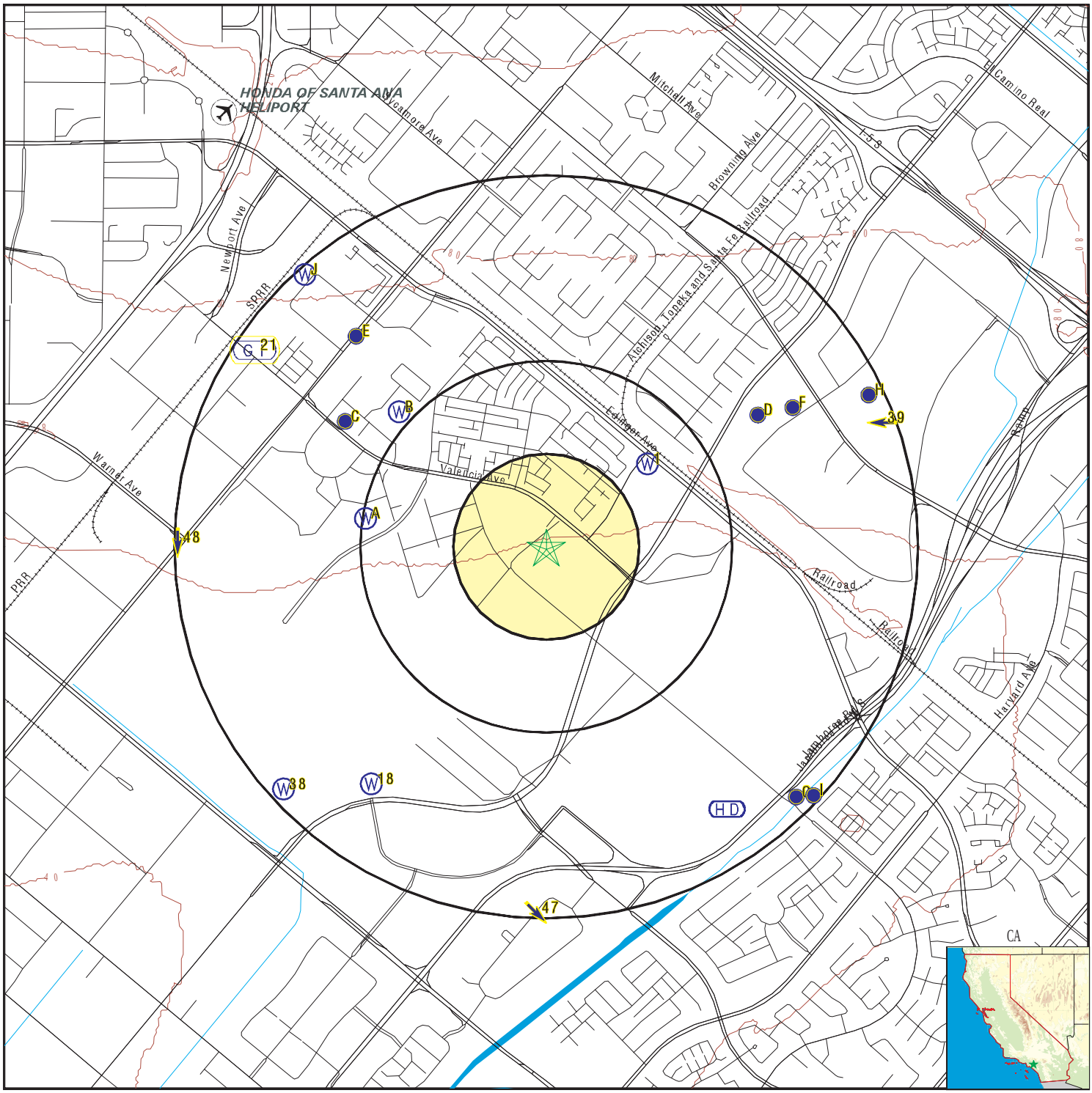
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR0000020749	1/4 - 1/2 Mile NE
A2	CAEDF0000039279	1/4 - 1/2 Mile West
A3	CAEDF0000080875	1/4 - 1/2 Mile West
A4	CAEDF0000125357	1/2 - 1 Mile West
B5	CAEDF0000040998	1/2 - 1 Mile NW
B6	CAEDF0000116313	1/2 - 1 Mile NW
B7	CAEDF0000143267	1/2 - 1 Mile NW
C8	CAUSGSN00014243	1/2 - 1 Mile WNW
C10	CADWR0000014279	1/2 - 1 Mile WNW
D12	CAUSGSN00001536	1/2 - 1 Mile ENE
C13	CADWR9000005125	1/2 - 1 Mile WNW
F16	CAUSGSN00016325	1/2 - 1 Mile ENE
E17	CADWR9000005144	1/2 - 1 Mile NW
18	CAEDF0000052881	1/2 - 1 Mile SW
G20	CAUSGSN00008318	1/2 - 1 Mile SE

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H22	CADWR9000005135	1/2 - 1 Mile ENE
H23	CADWR0000010639	1/2 - 1 Mile ENE
G26	CADWR9000004993	1/2 - 1 Mile SE
G27	CADWR9000004994	1/2 - 1 Mile SE
G28	CADWR9000004992	1/2 - 1 Mile SE
G29	CADWR9000004990	1/2 - 1 Mile SE
G30	CADWR9000004991	1/2 - 1 Mile SE
G31	CADWR9000004995	1/2 - 1 Mile SE
G32	CADWR9000004999	1/2 - 1 Mile SE
G33	CADWR9000005000	1/2 - 1 Mile SE
G34	CADWR9000004998	1/2 - 1 Mile SE
G35	CADWR9000004996	1/2 - 1 Mile SE
G36	CADWR9000004997	1/2 - 1 Mile SE
G37	CAUSGSN00009309	1/2 - 1 Mile SE
38	CADWR9000005004	1/2 - 1 Mile SW
I40	CAUSGSN00004123	1/2 - 1 Mile SE
G41	CADWR9000004988	1/2 - 1 Mile SE
H42	CAUSGSN00003441	1/2 - 1 Mile ENE
J44	CADWR9000005154	1/2 - 1 Mile NW
J45	CADWR9000005155	1/2 - 1 Mile NW
J46	CADWR9000005156	1/2 - 1 Mile NW
I52	CAUSGSN00000230	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 7936069.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Tustin USD - District Office and Outdoor Area	CLIENT:	Padre Associates, Inc
ADDRESS:	NW of Valencia Ave and Legacy Rd Tustin CA 92782	CONTACT:	Alan Klein
		INQUIRY #:	7936069.2s
LAT/LONG:	33.710962 / 117.82073	DATE:	March 24, 2025 7:45 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **NE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADWR0000020749**

Well ID:	05S09W27D001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S09W27D001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=05S09W27D001S&store_num=		
GeoTracker Data:	Not Reported		

	Database	EDR ID Number
A2 **West** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000039279**

Well ID:	T0605902029-222PW13D	Well Type:	MONITORING
Source:	EDF	Other Name:	222PW13D
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902029&assigned_name=222PW13D&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902029&assigned_name=222PW13D		

	Database	EDR ID Number
A3 **West** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000080875**

Well ID:	T0605902029-222PW13S	Well Type:	MONITORING
Source:	EDF	Other Name:	222PW13S
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902029&assigned_name=222PW13S&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902029&assigned_name=222PW13S		

	Database	EDR ID Number
A4 **West** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000125357**

Well ID:	T0605902029-222EW13	Well Type:	MONITORING
Source:	EDF	Other Name:	222EW13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902029&assigned_name=222EW13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902029&assigned_name=222EW13		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B5
NW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000040998**

Well ID:	T0605902029-222MW01D	Well Type:	MONITORING
Source:	EDF	Other Name:	222MW01D
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902029&assigned_name=222MW01D&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902029&assigned_name=222MW01D		

B6
NW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000116313**

Well ID:	T0605902029-222MW01D2	Well Type:	MONITORING
Source:	EDF	Other Name:	222MW01D2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902029&assigned_name=222MW01D2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902029&assigned_name=222MW01D2		

B7
NW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000143267**

Well ID:	T0605902029-222MW01S	Well Type:	MONITORING
Source:	EDF	Other Name:	222MW01S
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902029&assigned_name=222MW01S&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902029&assigned_name=222MW01S		

C8
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00014243**

Well ID:	USGS-334257117494401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334257117494401	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334257117494401&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C9
WNW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000137277**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W28D001S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19420907	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	516
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	28	Level reading date:	1986-08-15
Feet below surface:	70.23	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1986-05-06	Feet below surface:	60.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-04	Feet below surface:	55.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-05	Feet below surface:	64.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-16	Feet below surface:	63.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-06	Feet below surface:	54.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-13	Feet below surface:	47.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-30	Feet below surface:	57.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-13	Feet below surface:	52.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-11	Feet below surface:	47.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-07	Feet below surface:	36.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-07	Feet below surface:	42.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-12	Feet below surface:	51.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	43.08
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-02-14	Feet below surface:	46.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-08	Feet below surface:	55.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-06	Feet below surface:	56.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-07	Feet below surface:	47.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-28	Feet below surface:	51.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-05	Feet below surface:	62.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-29	Feet below surface:	60.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-15	Feet below surface:	39.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-06	Feet below surface:	32.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-03	Feet below surface:	39.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-28	Feet below surface:	43.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-19	Feet below surface:	43.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-01-07	Feet below surface:	38.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-13	Feet below surface:	55.1
Feet to sea level:	Not Reported	Note:	Not Reported

C10
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000014279**

Well ID:	05S09W28D001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S09W28D001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=05S09W28D001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D11
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137288**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W27D001S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D12
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00001536**

Well ID:	USGS-334258117483601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334258117483601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334258117483601&store_num=		
GeoTracker Data:	Not Reported		

C13
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000005125**

State Well #:	05S09W28D001S	Station ID:	28776
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

E14
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137350**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W21P002S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	294

Well Hole Depth Units: ft

Ground water levels,Number of Measurements:	98	Level reading date:	1986-08-14
Feet below surface:	15.80	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1986-05-06	Feet below surface:	15.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-20	Feet below surface:	15.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-06	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-16	Feet below surface:	16.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-06	Feet below surface:	15.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-13	Feet below surface:	14.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-30	Feet below surface:	15.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-13	Feet below surface:	14.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-11	Feet below surface:	13.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-07	Feet below surface:	14.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-07	Feet below surface:	14.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-12	Feet below surface:	14.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	14.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-14	Feet below surface:	16.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-08	Feet below surface:	17.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-09	Feet below surface:	16.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-07	Feet below surface:	15.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-28	Feet below surface:	15.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-05	Feet below surface:	16.10

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-29	Feet below surface:	15.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-15	Feet below surface:	15.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-06	Feet below surface:	16.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-03	Feet below surface:	16.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-28	Feet below surface:	16.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-08	Feet below surface:	16.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-11	Feet below surface:	16.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-08	Feet below surface:	18.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-06	Feet below surface:	20.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-31	Feet below surface:	20.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-01	Feet below surface:	19.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	20.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-27	Feet below surface:	22.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-28	Feet below surface:	22.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-28	Feet below surface:	25.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-02	Feet below surface:	24.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-29	Feet below surface:	24.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-21	Feet below surface:	24.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-25	Feet below surface:	23.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-30	Feet below surface:	23.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-02-27	Feet below surface:	23.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-08	Feet below surface:	22.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-03	Feet below surface:	23.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-04	Feet below surface:	23.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-26	Feet below surface:	22.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-01	Feet below surface:	22.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-04	Feet below surface:	30.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-30	Feet below surface:	23.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-25	Feet below surface:	23.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-04	Feet below surface:	23.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-01	Feet below surface:	23.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-02	Feet below surface:	22.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-19	Feet below surface:	21.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	21.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-02	Feet below surface:	21.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-24	Feet below surface:	20.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-09	Feet below surface:	20.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-10	Feet below surface:	19.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-05	Feet below surface:	19.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-11	Feet below surface:	20.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-02	Feet below surface:	20.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-09-06	Feet below surface:	19.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-11	Feet below surface:	19.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-04	Feet below surface:	18.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-01	Feet below surface:	17.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-12	Feet below surface:	17.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-11-05	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-08-31	Feet below surface:	16.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-07-14	Feet below surface:	15.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-06-14	Feet below surface:	15.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-05-04	Feet below surface:	15.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-13	Feet below surface:	15.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-04	Feet below surface:	14.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-12-15	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-11-03	Feet below surface:	15.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-09-30	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-09-02	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-08-07	Feet below surface:	14.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-07-08	Feet below surface:	14.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-06-02	Feet below surface:	14.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-04	Feet below surface:	14.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-02	Feet below surface:	13.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1970-03-09	Feet below surface:	14.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-02-04	Feet below surface:	14.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-02	Feet below surface:	14.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-04	Feet below surface:	14.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-06	Feet below surface:	14.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-09-03	Feet below surface:	14.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-07-01	Feet below surface:	13.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-06-09	Feet below surface:	15.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-05	Feet below surface:	13.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-08	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-11-27	Feet below surface:	16.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-10-29	Feet below surface:	16.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-10-09	Feet below surface:	16.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-16	Feet below surface:	16.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-07-16	Feet below surface:	15.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-06-12	Feet below surface:	14.50
Feet to sea level:	Not Reported	Note:	Not Reported

F15
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136938**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	USGS 334159117483001	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	14	Level reading date:	1985-07-02
Feet below surface:	12.32	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1985-06-20	Feet below surface:	12.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-01	Feet below surface:	12.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-05	Feet below surface:	12.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-01-16	Feet below surface:	12.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-20	Feet below surface:	11.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-10	Feet below surface:	12.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-21	Feet below surface:	12.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-10-28	Feet below surface:	14.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-31	Feet below surface:	11.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-07-21	Feet below surface:	12.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-20	Feet below surface:	11.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-18	Feet below surface:	11.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-29	Feet below surface:	14.08
Feet to sea level:	Not Reported	Note:	Not Reported

F16
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00016325**

Well ID:	USGS-334159117483001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334159117483001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334159117483001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E17
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000005144**

State Well #:	05S09W21P002S	Station ID:	5798
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

18
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000052881**

Well ID:	15519-EW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	EW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=15519&assigned_name=EW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=15519&assigned_name=EW-2		

G19
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000137018**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	USGS 334206117483201	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	12	Level reading date:	1985-06-20
Feet below surface:	9.21	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1985-04-11	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1985-01-16	Feet below surface:	9.48
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-08-20	Feet below surface:	9.55
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-02-10	Feet below surface:	10.14
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-11-28	Feet below surface:	9.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-10-28	Feet below surface:	11.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-31	Feet below surface:	8.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-07-21	Feet below surface:	9.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-19	Feet below surface:	9.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-18	Feet below surface:	9.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-03	Feet below surface:	8.85
Feet to sea level:	Not Reported	Note:	Not Reported

G20
SE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00008318**

Well ID:	USGS-334206117483201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334206117483201	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334206117483201&store_num=		
GeoTracker Data:	Not Reported		

21
NW
1/2 - 1 Mile
Higher

Site ID:	083002197T
Groundwater Flow:	SSW, W
Shallow Water Depth:	63.82
Deep Water Depth:	66.03
Average Water Depth:	Not Reported
Date:	10/28/1998

AQUIFLOW **69474**

H22
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000005135**

State Well #:	05S09W22Q001S	Station ID:	5800
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H23
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000010639**

Well ID:	05S09W22Q001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S09W22Q001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=05S09W22Q001S&store_num=		
GeoTracker Data:	Not Reported		

I24
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000137017**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	USGS 334206117482701	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	14	Level reading date:	1985-04-05
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		

Level reading date:	1985-01-16	Feet below surface:	4.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-20	Feet below surface:	4.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-22	Feet below surface:	6.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-10	Feet below surface:	6.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-01-04	Feet below surface:	5.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-21	Feet below surface:	5.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-10-28	Feet below surface:	4.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-31	Feet below surface:	3.88
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-07-21	Feet below surface:	5.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-20	Feet below surface:	4.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-18	Feet below surface:	3.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-03	Feet below surface:	2.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-28	Feet below surface:	3.53
Feet to sea level:	Not Reported	Note:	Not Reported

G25
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000137009**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	USGS 334205117482801	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	9	Level reading date:	1985-07-01
Feet below surface:	4.40	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1985-06-20	Feet below surface:	4.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-01-16	Feet below surface:	3.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-20	Feet below surface:	6.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-22	Feet below surface:	8.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-10	Feet below surface:	8.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-01-04	Feet below surface:	6.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-21	Feet below surface:	6.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-03	Feet below surface:	6.98
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004993**

State Well #:	05S09W27P024S	Station ID:	39994
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G27
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004994**

State Well #:	05S09W27P025S	Station ID:	28773
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G28
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004992**

State Well #:	05S09W27P023S	Station ID:	39317
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G29
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004990**

State Well #:	05S09W27P020S	Station ID:	27595
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G30
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004991**

State Well #:	05S09W27P022S	Station ID:	6356
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G31
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004995**

State Well #: 05S09W27P026S
Well Name: Not Reported
Well Use: Unknown
Well Depth: 0
Station ID: 6357
Basin Name: Coastal Plain Of Orange County
Well Type: Unknown
Well Completion Rpt #: Not Reported

G32
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004999**

State Well #: 05S09W27P031S
Well Name: Not Reported
Well Use: Unknown
Well Depth: 0
Station ID: 6360
Basin Name: Coastal Plain Of Orange County
Well Type: Unknown
Well Completion Rpt #: Not Reported

G33
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000005000**

State Well #: 05S09W27P021S
Well Name: Not Reported
Well Use: Unknown
Well Depth: 0
Station ID: 6355
Basin Name: Coastal Plain Of Orange County
Well Type: Unknown
Well Completion Rpt #: Not Reported

G34
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004998**

State Well #: 05S09W27P029S
Well Name: Not Reported
Well Use: Unknown
Well Depth: 0
Station ID: 6359
Basin Name: Coastal Plain Of Orange County
Well Type: Unknown
Well Completion Rpt #: Not Reported

G35
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004996**

State Well #: 05S09W27P027S
Well Name: Not Reported
Well Use: Unknown
Well Depth: 0
Station ID: 28774
Basin Name: Coastal Plain Of Orange County
Well Type: Unknown
Well Completion Rpt #: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
G36 **SE** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000004997**

State Well #:	05S09W27P028S	Station ID:	6358
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G37
SE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00009309**

Well ID:	USGS-334205117482801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334205117482801	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334205117482801&store_num=		
GeoTracker Data:	Not Reported		

38
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000005004**

State Well #:	05S09W28Q001S	Station ID:	25144
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

39
ENE
1/2 - 1 Mile
Higher

AQUIFLOW **38658**

Site ID:	083001504T
Groundwater Flow:	W
Shallow Water Depth:	13.29
Deep Water Depth:	13.62
Average Water Depth:	Not Reported
Date:	12/13/1991

I40
SE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00004123**

Well ID:	USGS-334206117482701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334206117482701	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334206117482701&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G41
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000004988**

State Well #:	05S09W27P030S	Station ID:	28775
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

H42
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00003441**

Well ID:	USGS-334300117481601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334300117481601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334300117481601&store_num=		
GeoTracker Data:	Not Reported		

H43
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137304**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W22Q001S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J44
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000005154**

State Well #:	05S09W21M001S	Station ID:	47324
Well Name:	IDM-2/MP1	Basin Name:	Coastal Plain Of Orange County
Well Use:	Observation		
Well Type:	Part of a nested/multi-completion well		
Well Depth:	1450	Well Completion Rpt #:	349329,30,32

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
J45 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000005155**

State Well #:	Not Reported	Station ID:	47325
Well Name:	IDM-2/MP5	Basin Name:	Coastal Plain Of Orange County
Well Use:	Observation		
Well Type:	Part of a nested/multi-completion well		
Well Depth:	1450	Well Completion Rpt #:	349329,30,32

	Database	EDR ID Number
J46 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000005156**

State Well #:	Not Reported	Station ID:	47326
Well Name:	IDM-2/MP8	Basin Name:	Coastal Plain Of Orange County
Well Use:	Observation		
Well Type:	Part of a nested/multi-completion well		
Well Depth:	1450	Well Completion Rpt #:	349329,30,32

			Database	EDR ID Number
47 **South** **1/2 - 1 Mile** **Lower**	Site ID:	083002669T	**AQUIFLOW**	**69455**
	Groundwater Flow:	SE		
	Shallow Water Depth:	5.28		
	Deep Water Depth:	7.56		
	Average Water Depth:	Not Reported		
	Date:	11/26/1996		

			Database	EDR ID Number
48 **West** **1/2 - 1 Mile** **Higher**	Site ID:	083000552T	**AQUIFLOW**	**64559**
	Groundwater Flow:	S		
	Shallow Water Depth:	6.45		
	Deep Water Depth:	8.21		
	Average Water Depth:	Not Reported		
	Date:	04/25/1997		

	Database	EDR ID Number
I49 **SE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000136994**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	USGS 334204117482601	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1983-10-05
Feet below surface:	10.53	Feet to sea level:	Not Reported
Note:	Not Reported		

I50 **FED USGS** **USGS40000136995**
SE
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W27P021S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	20
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1985-04-05
Feet below surface:	12.92	Feet to sea level:	Not Reported
Note:	Not Reported		

I51 **FED USGS** **USGS40000136977**
SE
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	USGS 334203117482701	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	13	Level reading date:	1985-07-01
Feet below surface:	8.28	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1985-06-20	Feet below surface:	8.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-01	Feet below surface:	9.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-05	Feet below surface:	8.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-01-16	Feet below surface:	8.05
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-08-20	Feet below surface:	7.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-10	Feet below surface:	8.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-21	Feet below surface:	8.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-10-28	Feet below surface:	8.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-31	Feet below surface:	7.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-07-21	Feet below surface:	7.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-20	Feet below surface:	7.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-18	Feet below surface:	6.73
Feet to sea level:	Not Reported	Note:	Not Reported

I52
SE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00000230**

Well ID:	USGS-334204117482601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334204117482601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334204117482601&store_num=		
GeoTracker Data:	Not Reported		

1G
NW
1/2 - 1 Mile
Lower

AQUIFLOW **69474**

Site ID:	083002197T
Groundwater Flow:	SSW, W
Shallow Water Depth:	63.82
Deep Water Depth:	66.03
Average Water Depth:	Not Reported
Date:	10/28/1998

2G
ENE
1/2 - 1 Mile
Lower

AQUIFLOW **38658**

Site ID:	083001504T
Groundwater Flow:	W
Shallow Water Depth:	13.29
Deep Water Depth:	13.62
Average Water Depth:	Not Reported
Date:	12/13/1991

3G
West
1/2 - 1 Mile
Lower

AQUIFLOW **64559**

Site ID:	083000552T
Groundwater Flow:	S
Shallow Water Depth:	6.45
Deep Water Depth:	8.21
Average Water Depth:	Not Reported
Date:	04/25/1997

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
4G **South** **1/2 - 1 Mile** **Lower**	Site ID:	083002669T	**AQUIFLOW**	**69455**
	Groundwater Flow:	SE		
	Shallow Water Depth:	5.28		
	Deep Water Depth:	7.56		
	Average Water Depth:	Not Reported		
	Date:	11/26/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92782	24	4

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX G

QUALIFICATION OF THE ENVIRONMENTAL ASSESSORS

ENVIRONMENTAL ASSESSOR QUALIFICATIONS

The environmental professionals responsible for conducting or reviewing this Phase I ESA and preparing the report include:

Alan J. Klein, R.E.P.A., C.P.E.S.C., QSD/QSP, is a Associate, Senior Environmental Scientist with Padre Associates, Inc. He holds a Bachelor of Arts degree in Environmental Studies and Planning from California State University, Sonoma, 1985. Mr. Klein obtained a Professional Certificate in Hazardous Materials Management from the University of California, Santa Barbara in 1992. Mr. Klein is a Registered Environmental Property Assessor; a Certified Professional in Erosion and Sediment Control; and a State of California Qualified SWPPP Developer and Practitioner. Mr. Klein has over 25 years of professional experience performing Phase I environmental site assessments; soil and groundwater assessments; soil and groundwater remediation projects; preliminary endangerment assessments (PEAs); removal actions; risk assessments; preparation and implementation of Storm Water Pollution Prevention Plans (SWPPPs).

Alan Churchill, P.G., is a Senior Geologist with Padre Associates, Inc. He holds a Bachelor of Science degree in Geology and a Minor Degree in Hydrologic Science from the University of California, Davis, March 1996. Mr. Churchill has 20 years of professional experience performing soil, groundwater, and soil gas investigation/remediation projects, underground storage tanks (USTs) removal projects, well abandonments, and soil/ groundwater modeling (environmental fate transport). His responsibilities include specification of project scope, regulatory agency negotiation and compliance, proposal and workplan preparation, field investigation, documentation, risk assessments, and reporting.

DECLARATION

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional*, as defined in §312.10 of 40 CFR §312. I have specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Additionally, the subject Phase I ESA has been performed in conformance with the scope and limitations of ASTM Practice E1527-21.

PALEONTOLOGICAL RESOURCES ASSESSMENT REPORT

TUSTIN UNIFIED SCHOOL DISTRICT EDUCATION CENTER PROJECT

City of Tustin
Orange County, California

For Submittal to:

Tustin Unified School District
1302 Service Road
Tustin, CA 92780

Prepared for:

HANA Resources
20361 Hermana Circle
Lake Forest, CA 92630

Prepared by:

Ron C. Schmidtling, Principal Paleontologist
Elizabeth Beckner, Report Writer
CRM TECH
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

Michael Hogan, Principal Investigator
Bai Tang, Principal Investigator

June 29, 2025
Revised September 4, 2025

Approximately nine acres
USGS Tustin, Calif., 7.5' quadrangle
Tract 46, T5S R9W, San Bernardino Baseline and Meridian
CRM TECH Project No. 4252P

EXECUTIVE SUMMARY

Between March and June 2025, at the request of HANA Resources, CRM TECH performed a paleontological resource assessment on approximately nine acres of undeveloped land in the City of Tustin, Orange County, California. The subject property of the study is located at the southwest corner of Legacy Road and Valencia Avenue, within the former boundaries of the decommissioned Marine Corps Air Station Tustin. It comprises a portion of Tract 46, Township 5 South, Range 9 West, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey Tustin, California, 7.5' quadrangle.

The study is a part of the environmental review process for the proposed construction of offices and outdoor event space for the Tustin Unified School District (TUSD). As the lead agency for the project, the TUSD required the study in compliance with the California Environmental Quality Act (CEQA). The purpose of the study is to provide the TUSD with the necessary information and analysis to determine whether the proposed project would adversely affect any significant, nonrenewable paleontological resources, as required by CEQA, and to design a paleontological mitigation program, if necessary.

In order to identify any paleontological resource localities that may exist in or near the project area and to assess the probability for such resources to be encountered during the project, CRM TECH initiated a records search at the appropriate repository, conducted a literature review, and carried out a systematic field survey of the project area. The results of these research procedures indicate no known fossil localities within the project area or a one-mile radius but suggest that the younger surface soils in the vicinity lie upon Pleistocene alluvial fan deposits that are known to be fossiliferous. Therefore, the project's potential to impact significant, nonrenewable paleontological resources appears to be low in the surface soils but high in the Pleistocene sediments occurring at unknown depths.

Based on these findings, CRM TECH recommends that a paleontological resource impact mitigation program be developed and implemented during the project to prevent impacts on significant, nonrenewable paleontological resources or reduce the impacts to a level less than significant. As a part of the mitigation program, earth-moving operations reaching beyond the previously disturbed surface soils, generally three feet in depth, should be monitored periodically by a qualified paleontological monitor to ensure the timely identification of potentially fossil-bearing sediments when they are encountered. Once potentially fossiliferous sediments are exposed, all further earth-moving operations will need to be monitored continuously. Under these conditions, CRM TECH further recommends that the proposed project may be cleared to proceed in compliance with CEQA provisions on paleontological resources.

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INTRODUCTION

Between March and June 2025, at the request of HANA Resources, CRM TECH performed a paleontological resource assessment on approximately nine acres of undeveloped land in the City of Tustin, Orange County, California (Fig. 1). The subject property of the study is located at the southwest corner of Legacy Road and Valencia Avenue, within the former boundaries of the decommissioned Marine Corps Air Station (MCAS) Tustin. It comprises a portion of Tract 46, Township 5 South, Range 9 West, San Bernardino Baseline and Meridian, as depicted in the United States Geological Survey (USGS) Tustin, California, 7.5' quadrangle (Figs. 2, 3).

The study is a part of the environmental review process for the proposed construction of offices and outdoor event space for the Tustin Unified School District (TUSD). As the lead agency for the project, the TUSD required the study in compliance with the California Environmental Quality Act (CEQA; PRC §21000, et seq.). The purpose of the study is to provide the TUSD with the necessary information and analysis to determine whether the proposed project would adversely affect any significant, nonrenewable paleontological resources, as required by CEQA, and to design a paleontological mitigation program, if necessary.

In order to identify any paleontological resource localities that may exist in or near the project area and to assess the probability for such resources to be encountered during the project, CRM TECH initiated a records search at the appropriate repository, conducted a literature review, and carried out a systematic field survey of the project area. The following report is a complete account of the methods, results, and final conclusion of this study. Personnel who participated in the study are named in the appropriate sections below, and their qualifications are provided in Appendix 1.

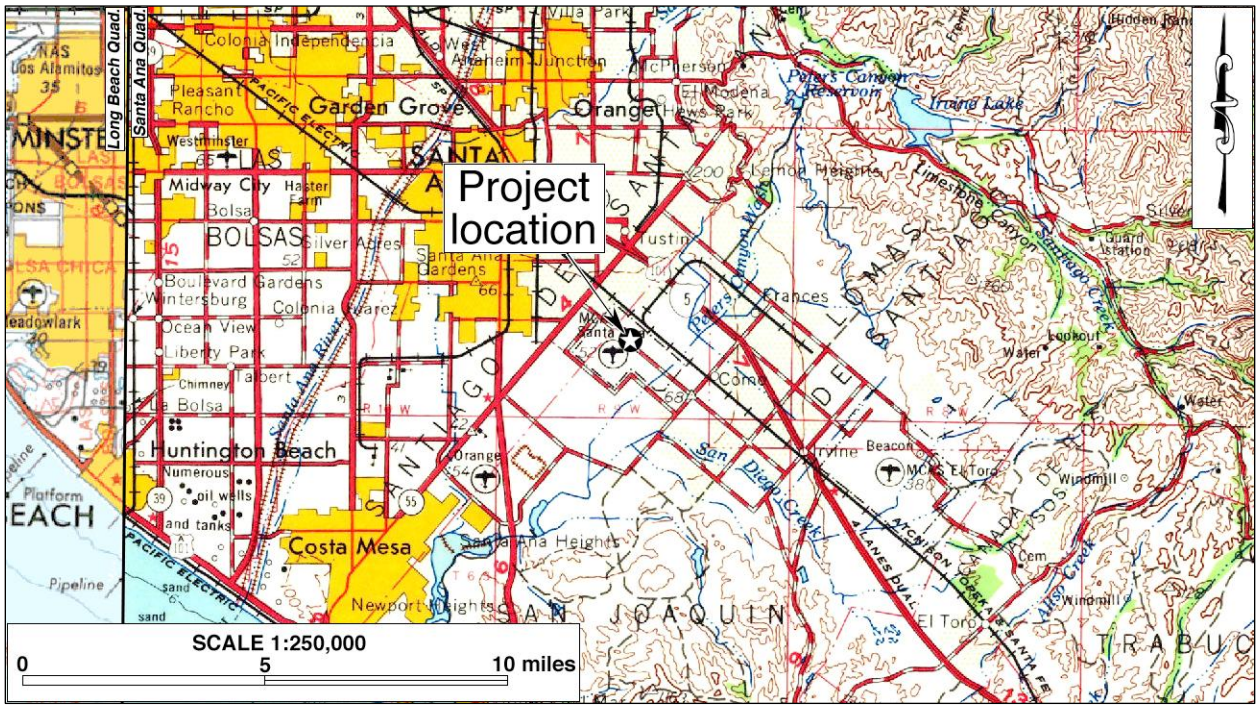


Figure 1. Project vicinity. (Based on USGS Long Beach and Santa Ana, Calif., 120'x60' quadrangles,1978/1979 edition)

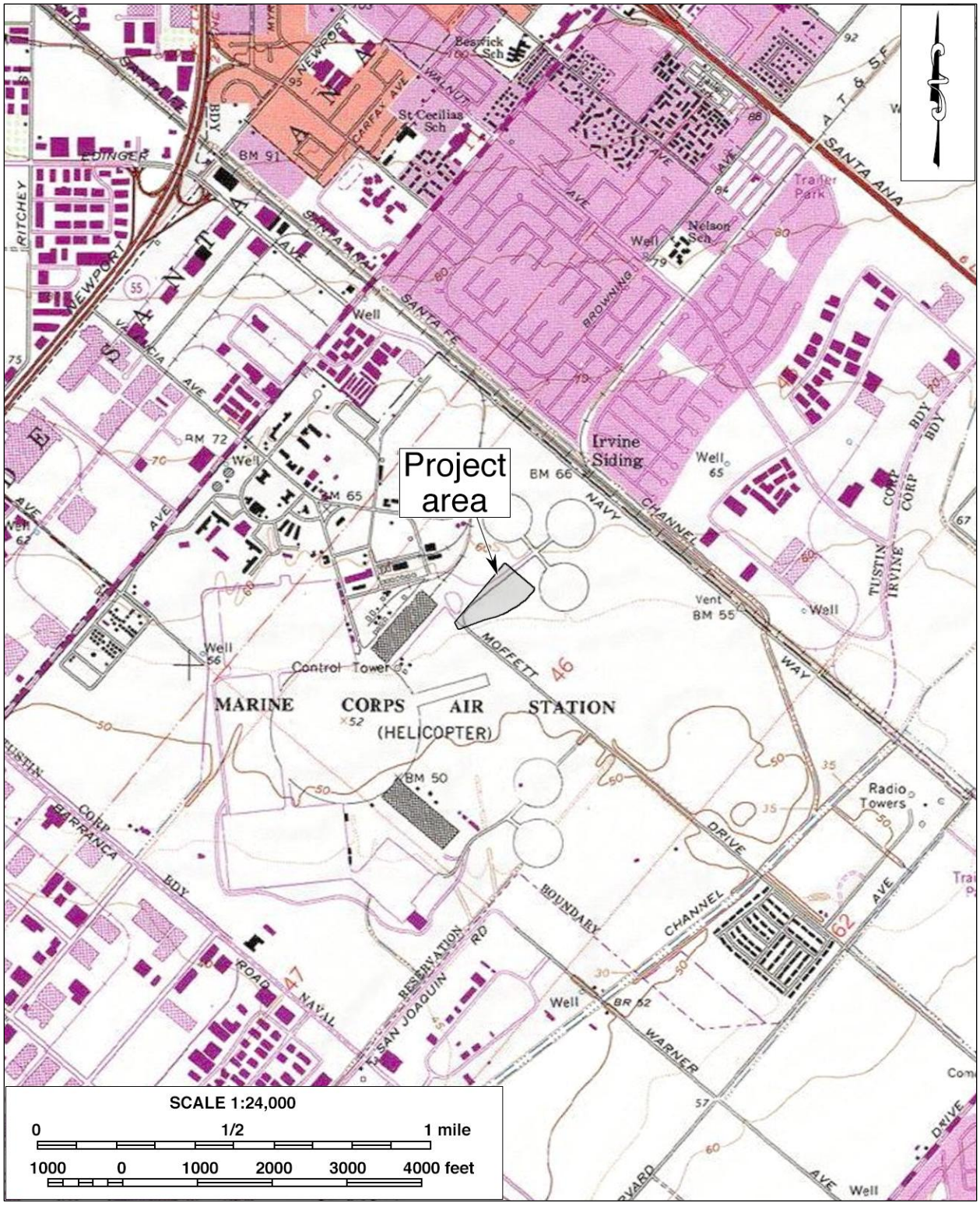


Figure 2. Project location. (Based on USGS Tustin, Calif., 7.5' quadrangle, 1981 edition).



Figure 3. Recent satellite image of the project area.

PALEONTOLOGICAL RESOURCES

The following section presents an overview of common paleontological resource types, along with criteria used in assessing resource significance and paleontological sensitivity.

DEFINITION

Paleontological resources represent the remains of prehistoric life, exclusive of any human remains, and include the localities where fossils were collected as well as the sedimentary rock formations in which they were found. The defining character of fossils or fossil deposits is their geologic age, typically older than recorded human history and/or older than the middle Holocene Epoch, which dates to circa 5,000 radiocarbon years (Society of Vertebrate Paleontology 2010:11).

Common fossil remains include marine and freshwater mollusk shells; the bones and teeth of fish, amphibians, reptiles, and mammals; leaf imprint assemblages; and petrified wood. Trace fossils, another type of paleontological resource, include internal and external molds (impressions) and casts, such as footprints, created by these organisms. These items can serve as important guides to the age of the rocks and sediments in which they are contained and may prove useful in determining the temporal relationships between rock deposits from one area and those from another as well as the timing of geologic events. They can also provide information regarding evolutionary relationships, development trends, and environmental conditions.

Fossil resources generally occur only in areas of sedimentary rock (e.g., sandstone, siltstone, mudstone, claystone, or shale). Because of the infrequency of fossil preservation, fossils, particularly vertebrate fossils, are considered nonrenewable paleontological resources. Occasionally fossils may be exposed at the surface through the process of natural erosion or because of human disturbances; however, they generally lay buried beneath the surficial soils. Thus, the absence of fossils on the surface does not preclude the possibility of their being present within subsurface deposits, while the presence of fossils at the surface is often a good indication that more remains may be found in the subsurface.

SIGNIFICANCE CRITERIA

According to guidelines proposed by Scott and Springer (2003:6), paleontological resources can be considered to be of significant scientific interest if they meet one or more of the following criteria:

1. The fossils provide information on the evolutionary relationships and developmental trends exhibited among organisms, living or extinct;
2. The fossils provide data useful in determining the age(s) of the rock unit or sedimentary stratum, including data important in determining the depositional history of the region and the timing of geologic events therein;
3. The fossils provide data regarding the development of biological communities or the interactions between paleobotanical and paleozoological biotas;
4. The fossils demonstrate unusual or spectacular circumstances in the history of life; and/or
5. The fossils are in short supply and/or in danger of being depleted or destroyed by the elements, vandalism, or commercial exploitation, and are not found in other geographic locations.

PALEONTOLOGICAL SENSITIVITY

The fossil record is unpredictable, and the preservation of organic remains is rare, requiring a particular sequence of events involving physical and biological factors. Skeletal tissue with a high percentage of mineral matter is the most readily preserved within the fossil record; soft tissues not intimately connected with the skeletal parts, however, are the least likely to be preserved (Raup and Stanley 1978). For this reason, the fossil record contains a biased selection not only of the types of organisms preserved but also of certain parts of the organisms themselves. As a consequence, paleontologists are unable to know with certainty, the quantity of fossils or the quality of their preservation that might be present within any given geologic unit.

Sedimentary units that are paleontologically sensitive are those geologic units (mappable rock formations) with a high potential to contain significant nonrenewable paleontological resources. More specifically, these are geologic units within which vertebrate fossils or significant invertebrate fossils have been determined by previous studies to be present or are likely to be present. These units include, but are not limited to, sedimentary formations that contain significant paleontological resources anywhere within their geographical extent as well as sedimentary rock units temporally or lithologically amenable to the preservation of fossils.

A geologic formation is defined as a stratigraphic unit identified by its lithic characteristics (e.g., grain size, texture, color, and mineral content) and stratigraphic position. There is a direct relationship between fossils and the geologic formations within which they are enclosed and, with sufficient knowledge of the geology and stratigraphy of a particular area, it is possible for paleontologists to reasonably determine the formation's potential to contain significant nonrenewable vertebrate, invertebrate, marine, or plant fossil remains.

The paleontological sensitivity for a geologic formation is determined by the potential for that formation to produce significant nonrenewable fossils. This determination is based on what fossil resources the particular geologic formation has produced in the past at other nearby locations. Determinations of paleontologic sensitivity must consider not only the potential to yield a large collection of fossil remains but also the potential to yield a few fossils that can provide new and significant taxonomic, phylogenetic, and/or stratigraphic data.

The Society of Vertebrate Paleontology issued a set of standard guidelines intended to assist paleontologists to assess and mitigate any adverse effects/impacts to nonrenewable paleontological resources. The guidelines defined four categories of paleontological sensitivity for geologic units that might be impacted by a proposed project, as listed below (Society of Vertebrate Paleontology 2010:1-2):

- **High Potential**: Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered.
- **Undetermined Potential**: Rock units for which little information is available concerning their paleontological content, geologic age, and depositional environment.
- **Low Potential**: Rock units that are poorly represented by fossil specimens in institutional collections, or based on general scientific consensus only preserve fossils in rare circumstances.
- **No Potential**: Rock units that have no potential to contain significant paleontological resources, such as high-grade metamorphic rocks and plutonic igneous rocks.

SETTING

REGIONAL GEOLOGY

The City of Tustin is situated on the southeastern rim of the Los Angeles Basin, a structural basin that, according to most sources, lies at the northwestern end of the Peninsular Ranges province, which at its deepest point is filled by more than 30,000 feet of middle Miocene and younger sedimentary rock (Yerkes et al. 1965:A4; Jenkins 1980:40-41). Norris and Webb (1976:170) also place the portion of the Los Angeles Basin around the project location in the Peninsular Ranges province. Harden (2004:435), however, considers the Los Angeles Basin to be more closely related to the Transverse Ranges province than the Peninsular Ranges province, while Harms (1996:150-151) considers the basin to be so different geologically from both the Peninsular and Transverse Ranges provinces as to constitute a separate province.

Yerkes et al. (1965:A5) show the Los Angeles Basin to be bounded on the north by the Transverse Ranges and on the east by the Chino-Elsinore Fault and the Santa Ana Mountains while extending westward under the Pacific Ocean. The basin is divided into four well-defined structural blocks by the Santa Monica-Raymond Hill-Cucamonga Faults, the Whittier-Elsinore Faults and the Newport-Inglewood Fault (Yerkes et al. 1965:A5; Harms 1996:151). Harden (2004:435) also divides the Los Angeles Basin into four individual structural blocks, but bases the divisions on the Palos Verdes Fault, the Newport-Inglewood Fault, and the Whittier-Elsinore Fault Systems.

CURRENT ENVIRONMENTAL SETTING

Situated in the southwestern portion of the City of Tustin, the project area is surrounded by residential neighborhoods and commercial buildings to the northeast, the Legacy Magnet Academy to the south, and remaining structures of the decommissioned MCAS Tustin to the west (Figs. 3). Within the project area, there is a stockpile of soil that spans the length of the project area as well as several soil mounds near the southern and northern boundaries, likely spoils from recent construction nearby. Elevations on the property range around 55 feet above mean sea level. In its native state, the project area would be a part of the California Coastal Scrub Plant Community, but vegetation observed includes primarily invasive species such as foxtails and black mustard (Fig. 4).

METHODS AND PROCEDURES

RECORDS SEARCHES

The paleontological records search service for this study was provided by the Natural History Museum of Los Angeles County (NHMLA) in Los Angeles, which maintains files of regional paleontological localities as well as supporting maps and documents. The records search results were used to identify known previously performed paleontological resource assessments as well as known paleontological localities within a one-mile radius of the project area. A copy of the records search results is attached to this report in Appendix 2.



Figure 4. Typical landscape in the project area. Photograph taken on May 9, 2025; view to the southwest.

LITERATURE REVIEW

In conjunction with the records search, CRM TECH report writer Elizabeth Beckner reviewed geological literature pertaining to the project vicinity under the direction of principal paleontologist Ron C. Schmidtling. Sources consulted during the review include primarily topographic, geologic, and soil maps of the Tustin area, published geologic literature pertaining to the project location, aerial and satellite images available at the Nationwide Environmental Title Research (NETR) Online website and through Google Earth software, and other materials in the CRM TECH library, including unpublished reports produced during similar surveys in the vicinity.

FIELD SURVEY

On May 9, 2025, CRM TECH paleontological surveyor Melissa Portilla carried out the field survey of the project area under the direction of Ron Schmidtling. The survey was completed on foot at an intensive level by walking a series of parallel transects oriented northeast-southwest and spaced 15 meters (approximately 50 feet) apart. In this way, the ground surface in the entire project area was systematically and closely examined to determine soil types, verify the geological formations, and search for indications of paleontological remains. Ground visibility was generally poor (5-10%) in much of the project area due to either thick vegetation or the presence of soil stockpiles (Fig. 4). In light of the extent of past ground disturbances in the vicinity, however, the visibility level was not considered a major hindrance to the survey effort.

RESULTS AND FINDINGS

RECORDS SEARCHES

The records search results provided by the NHMLA identified no paleontological localities within the project area or within a one-mile radius but indicated the presence of such localities discovered elsewhere in southern California in sediment lithologies similar to those known to occur at the project location (Bell 2025; see App. 2). These localities have produced fossil remains that include rodent and sheep but also marine specimens such as school shark, eagle ray, goby, midshipmen, croaker, flatfish, cusk-eel, skate, angelshark, and sculpin from Quaternary deposits, as well as a dugong clade and sloth from the Vaqueros Formation.

The locations of these known fossil localities range from as close as the former Marine Corps Air Station El Toro in Irvine to as distant as Huntington Beach (*ibid*.). Although two of the fossil localities were recovered from unknown depths, two were recovered at 25 feet and 150-350 feet below ground surface, which far exceeds typical depths required for building construction. According to the NHMLA, potentially fossil-bearing soil units are present within the project area either at the surface or subsurface and, therefore, a full paleontological assessment was warranted (*ibid*.).

LITERATURE REVIEW

The surface geology in the project area was mapped by Rogers (1965) as *Qal*, or alluvium of recent age. Morton and Miller (2006) mapped the surface geology in the project area as Qyf_{sa} (Fig. 5), which is described as young alluvial-fan deposits that consist of "slightly to moderately consolidated silt, sand, and coarse-grained sand to bouldery alluvial-fan deposits having moderately dissected surfaces," dating to the early Holocene and late Pleistocene. Both of these geologic maps confirm the presence of younger sediments on the surface in the immediate vicinity of the project area.

Wachtell (1978:Map Sheet 10) mapped the surface soils in the project area as 140 (Chino silty clay loam, drained; 0 to 2 percent slopes). This soil type belongs to the Chino Series and consists of "somewhat poorly drained soils on alluvial fans" (*ibid.:*20). Also typical of the Chino Series is a 24-inch gray silty clay loam surface layer, with the underlying material extending to a depth of 60 inches or more and consisting of "grayish brown, gray, and light gray silty clay loam in places mottled with light brownish gray" (*ibid.*).

Historical aerial and satellite images indicate that the ground surface in and around the project area has been extensively disturbed since at least the 1940s, when the forerunner of MCAS Tustin was established. During the mid- and late 20th century, the project area was partially occupied by two of the main roads of the MCAS, while the rest of the property was covered by lawn grass (NETR Online 1946-2022; Google Earth 1994-2025). After the closure of the base in 1999, the entire project area was cleared in 2016-2017, although no further development has occurred (*ibid.*).

FIELD SURVEY

The field survey produced negative results for potential paleontological resources, and no fossilized faunal or floral remains were observed on the surface. Field observations confirmed that the ground

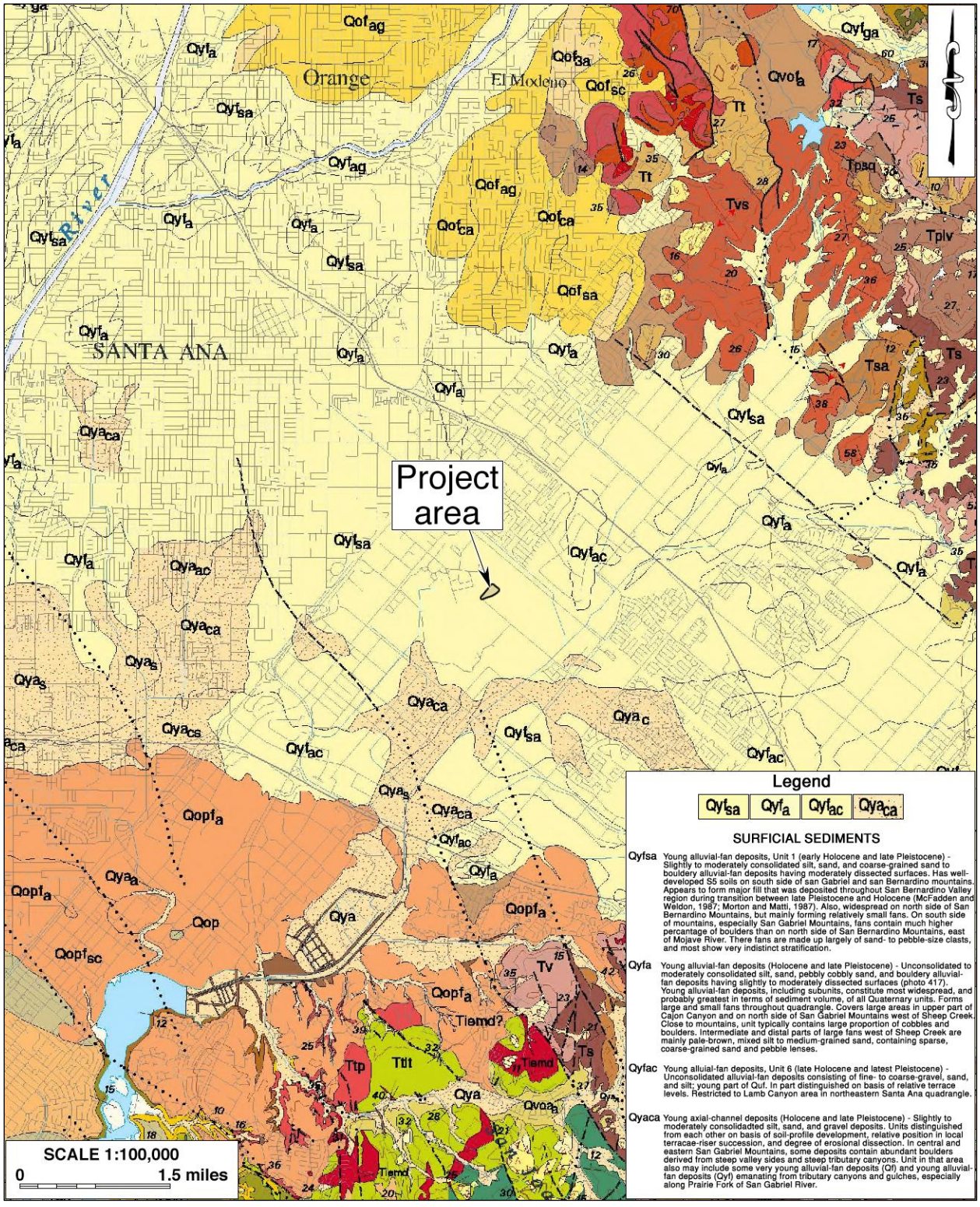


Figure 5. Geological map of the project area and vicinity. (Source: Morton and Miller 2006)

surface in the project area had been disturbed in the past, most recently in relation to nearby construction activities, with little vestige of the natural landscape remaining today (Fig. 4).

CONCLUSION AND RECOMMENDATIONS

CEQA guidelines (Title 14 CCR App. G, Sec. V(c)) require that public agencies in the State of California determine whether a proposed project would "directly or indirectly destroy a unique paleontological resource" during the environmental review process. The present study, conducted in compliance with this provision, is designed to identify any significant, non-renewable paleontological resources that may exist within or adjacent to the project area, and to assess the possibility for such resources to be encountered in future excavation and construction activities.

Based on the research results presented above, no fossil localities have been identified within the project area or a one-mile radius, but the younger surface soils in the vicinity evidently lie upon Pleistocene alluvial fan deposits that are known to be fossiliferous. Therefore, the project's potential to impact significant, nonrenewable paleontological resources appears to be low in the surface soils but high in the Pleistocene sediments occurring at unknown depths. Based on these findings, CRM TECH recommends that a paleontological resource impact mitigation program be developed and implemented during the project to prevent impacts on significant, nonrenewable paleontological resources or reduce the impacts to a level less than significant. The mitigation program should be developed in accordance with the provisions of CEQA (Scott and Springer 2003) as well as the proposed guidelines of the Society of Vertebrate Paleontology (2010) and should include but not be limited to the following:

- Earth-moving operations reaching beyond the previously disturbed surface soils, generally three feet in depth, should be monitored periodically, or "spot-checked," by a qualified paleontological monitor to ensure the timely identification of potentially fossil-bearing sediments. The frequency of the field visits by the paleontological monitor will be dictated by the pace of the project and on-site assessment of the exposed sediments observed during each visit.
- Once potentially fossil-bearing sediments are exposed, continuous monitoring will become necessary. The monitor should be prepared to quickly salvage fossils, if they are unearthed, to avoid construction delays, but must be authorized to temporarily halt or divert construction equipment to allow for removal of abundant or large specimens.
- During continuous monitoring in the paleontologically sensitive sediments, samples of sediments should be collected and processed to recover small fossil remains.
- Recovered specimens should be identified and curated at a repository with permanent retrievable storage that would allow for further research in the future.
- A report of findings, including an itemized inventory of recovered specimens and a discussion of their significance when appropriate, should be prepared upon completion of the research procedures outlined above. The approval of the report and the inventory by the TUSD would signify completion of the mitigation program.

Under this condition, CRM TECH further recommends that the proposed project may be cleared to proceed in compliance with CEQA provisions on paleontological resources.

REFERENCES

Bell, Alyssa
2025 Paleontological Resources Records Search for the Tustin USD District Offices Project (CRM TECH No. 4252P). Prepared for CRM TECH by the Natural History Museum of Los Angeles County, Los Angeles, California.

Harden, Deborah R.
2004 *California Geology*. Prentice Hall, Upper Saddle River, New Jersey.

Harms, Nancy S.
1996 *A Precollegate Teachers Guide to California Geomorphic/Physiographic Provinces*. National Association of Geoscience Teachers, Far West Section, Concord, California.

Jenkins, Olaf P.
1980 Geomorphic Provinces Map of California. *California Geology* 32(2):40-41.

Morton, Douglas M., and Fred K. Miller
2006 Geologic Map of the San Bernardino and Santa Ana 30'x60' quadrangles, California. United States Geological Survey Open-File Report 2006-1217. Digital preparation by Pamela M. Cossette and Kelly R. Bovard. http://pubs.usgs.gov/of/2006/1217.

Norris, Robert M., and Robert W. Webb
1976 *Geology of California*. John Wiley and Sons, New York.

Raup, David M., and Steven M. Stanley
1978 *Principle of Paleontology*. W.H. Freeman and Company, San Francisco.\

Rogers, Thomas H.
1965 Geological Map of California, Santa Ana Sheet (1:250,000). California Division of Mines and Geology, Sacramento.

Scott, Eric, and Kathleen Springer
2003 CEQA and Fossil Preservation in California. *Environmental Monitor* Fall:4-10. Association of Environmental Professionals, Sacramento, California.

Society of Vertebrate Paleontology
2010 Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources. http://vertpaleo.org/Membership/Member-Resources/SVP_ Impact_Mitigation_Guidelines.aspx.

Wachtell, John K.
1978 *Soil Survey of Orange County and Western Part of Riverside County, California*. U.S. Department of Agriculture, Soil Conservation Service, and U.S. Forest Service, in cooperation with the University of California Agricultural Experiment Station.

Yerkes, R.F., T.H. McCulloh, J.E. Schoellhamer, and J.G. Vedder
1965 *Geology of the Los Angeles Basin, California: An Introduction*. U.S. Geological Survey Professional Paper 420-A. Washington, D.C.

APPENDIX 1
PERSONNEL QUALIFICATIONS

PRINCIPAL PALEONTOLOGIST
Ron Schmidtling, M.S.

Education

1995	M.S., Geology, University of California, Los Angeles.
1991	Pasadena City College, Pasadena, California.
1985	B.A., Archaeology, Paleontology, Ancient Folklore, and Art History, University of Southern Mississippi, Hattiesburg.

Professional Experience:

2020-	Principal Paleontologist, CRM TECH, Colton, California.
2014-	Instructor of Earth Science, History of Life, Ecology, and Evolutionary Biology, Columbia College Hollywood, Reseda, California.
2013, 2015	Volunteer, excavation of a camarasaur and a diplodocid in southern Utah, Natural History Museum of Los Angeles County, California.
1993-2014	Consultant, Getty Conservation Institute, Brentwood, California. • Geological Consultant on the Renaissance Bronze Project, characterizing constituents of bronze core material; • Paleontological Consultant for Antiquities/Conservation, identifying the foraminifera and mineral constituents of a limestone torso of Aphrodite; • Scientific Consultant on the Brentwood Site Building Project, testing building materials for their suitability in the museum galleries.
1999-2001	Archaeological and Paleontological Monitor, Michael Brandman Associates, Irvine, California.
1997	Department of Archaeology, University of California, Los Angeles.
1994	Scientific Illustrator and Teaching Assistant, Department of Earth and Space Sciences and Department of Biological Sciences, University of California, Los Angeles.

Memberships

AAPS (Association of Applied Paleontological Sciences), USA; CSEOL (Center for the Study of Evolution and the Origin of Life), Department of Earth Sciences, University of California, Los Angeles.

Publications and Reports

Author, co-author, and contributor on numerous paleontological publications and paleontological resource management reports.

REPORT WRITER
Elizabeth L. Beckner, Ph.D.

Education

2024	Ph.D., Anthropology, University of California, Riverside.
2017	M.A., Anthropology, University of California, Riverside.
2016	B.A., Anthropology, University of California, Riverside.

Professional Experience

2024-	Project Archaeologist, CRM TECH, Colton, California.
2024-	Lecturer, California State University, San Bernardino.
2019-	Adjunct Instructor, Chaffey College, Rancho Cucamonga, California.
2019	Archaeologist, Dudek, Pasadena, California
2017-2019	Teaching Assistant, University of California, Riverside.
2018	Archaeologist, Proyecto Sacbé Cobá-Yaxuna (Sacbé Cobá-Yaxuna Project), Cobá, Quintana Roo, Mexico.
2016-2017	Field Assistant, Proyecto de Interacción Política del Centro de Yucatán (Political Interaction Project of Central Yucatan), Yaxuna, Yucatan, Mexico.
2015-2017	Information Officer, Eastern Information Center, Riverside, California.

Publication

2023 T.W. Stanton, Traci Ardren, Nicolas C. Barth, Juan C. Fernandez Diaz, Steph J. Miller, Karl A. Taube, Patrick Rohrer, Elizabeth Beckner;, and Aline Magnoni: Roads, Temples, and the Community Boundaries of Cobá, Quintana Roo. In T.H. Guderjan and J.P. Mathews (eds.): *Construction of Maya Space: Causeways, Walls, and Open Areas from Ancient to Modern Times*; pp. 71-98. University of Arizona Press, Tucson.

PALEONTOLOGICAL SURVEYOR
Melissa A. Portilla, B.A.

Education

2023	A.A. (*cum laude*), Anthropology, Fullerton College.
2019	B.A., Ancient History: Classics, University of Hawaii, Manoa.

Professional Experience

2023-	Project Archaeologist, CRM TECH, Colton, California.
2023-2024	Project Archaeologist, Psomas, Pasadena, California.
2020-2020	Collections Assistant, Museum of Us, San Diego, California.

APPENDIX 2

RECORDS SEARCH RESULTS

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007
tel 213.763.DINO
www.nhm.org

Research & Collections

e-mail: paleorecords@nhm.org

March 30, 2025

CRM TECH
Attn: Eulices Lopez

re: Paleontological resources records search for the Tustin USD District Offices Project (CRM TECH No. 4252P)

Dear Eulices:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Tustin USD District Offices project area as outlined on the portion of the Tustin USGS topographic quadrangle map that you sent to me via e-mail on March 24, 2025. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that may occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

Locality Number	Location	Formation	Taxa	Depth
LACM VP 7867	Former El Toro Marine Base	Unknown formation (Pleistocene)	Rodent (rodentia)	25 feet bgs
LACM VP 7712-7713	City of Irvine south of I-405 & northeast of Sand Canyon Reservoir	Vaqueros Formation (fine-grained siltstone)	Dugong clade (Dugongidae), sloth (Mylodontidae?)	Unknown
LACM VP 1652	Rio Vista Avenue south of Lincoln Avenue	Alluvium (Pleistocene)	Sheep (*Ovis*)	Unknown (excavations for housing project)

Table continued on next page

Locality Number	Location	Formation	Taxa	Depth
LACM VP 7657-7659	Ellis Avenue & Patterson Lane, Huntington Beach	Unknown Formation (Pleistocene; gray siltstone)	School shark (*Galeorhinus*), eagle ray *(Myliobatus*), goby (*Lepidogobius, Leptocottus*), midshipmen (*Porichthys*), croaker (*Seriphus*), flatfish (*Citharichthys*), cusk-eel (*Otophidium*), skate (*Raja*), angelshark (*Squatina*), sculpin (Cottidae)	150 - 350 ft bgs

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Federal (43 Code of Federal Regulations Part 49.110) or Society of Vertebrate Paleontology standards.

Sincerely,

Alyssa Bell

Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
DISTRICT OFFICES AND OUTDOOR EVENT CENTER
TUSTIN, ORANGE COUNTY, CALIFORNIA



Prepared for:

Tustin Unified School District
And
PlaceWorks

DECEMBER 2025

padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

December 10, 2025
Project Number: 2501-0092

Mr. Tom Rizzuti
Director of Facilities and Planning
Tustin Unified School District
300 South C Street
Tustin, CA 92780

Subject: Phase II ESA Report for the District Offices and Outdoor Event Center
Tustin, Orange County, California

Dear Mr. Rizzuti:

Padre Associates (Padre) on behalf of Tustin Unified School District and PlaceWorks has prepared this report documenting the results of the Phase II environmental site assessment (ESA) activities completed for the District Offices and Outdoor Event Center, located southwest of the intersection of Valencia Avenue and Legacy Road in Tustin, Orange County, California (Project Site).

The Phase II ESA was completed in general accordance with Padre's field sampling plan and health & safety plan dated September 2025. Based on the findings of the Phase II ESA, Padre concludes that soil gas and groundwater have been impacted from historic operations of the former Marine Corps Air Station (MCAS) facility located west and adjacent to the Project Site.

If you have any questions or require additional information, please contact the undersigned at (916) 333-5920, ext. 250/240.

Sincerely,
PADRE ASSOCIATES

Alan Churchill, P.G.
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Cc: Mariana Zimmerman, Associate Principal, PlaceWorks
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APPENDIX C: DRILL HOLE LOGS

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1.0 INTRODUCTION

Padre Associates (Padre), on behalf of Tustin Unified School District (USD) and PlaceWorks, has completed a Phase II environmental site assessment (ESA) for the District Offices and Outdoor Event Center, located southwest of the intersection of Valencia Avenue and Legacy Road in Tustin, Orange County, California (Project Site). The location of the Project Site is illustrated on **Plate 1**, and a site map is presented as **Plate 2**.

1.1 Purpose and Objectives

The purpose of the Phase II ESA to assess potential impacts to soil, soil gas, and groundwater related to the former Marine Corps Air Station (MCAS) facility located west and adjacent to the Project Site. The former MCAS facility reportedly has a contaminated groundwater plume (OU-1B North), containing solvents and polyfluoroalkyl substances (PFAS), which reportedly has migrated towards the northwest property boundary of the Project Site. In addition, there are approximately 30 to 40 soil piles located near the south-central portion of the Project Site. These soil piles are considered undocumented fill material and require characterization.

The objective of the Phase II ESA was to collect soil, soil gas, and groundwater samples at the Project Site and compare the results to established regulatory environmental screening levels.

1.2 Background

Padre prepared the document titled: *Phase I Environmental Site Assessment, District Offices and Outdoor Event Center, Northwest of Valencia Ave and Legacy Rd, Tustin, Orange County, California (Padre, May 2025)*. The findings of the Phase I ESA identified the following recognized environmental conditions (RECs):

- The former MCAS facility has a contaminated groundwater plume (OU-1B North), containing solvents and PFAS, which reportedly has migrated towards the northwest property boundary of the Project Site; and
- Approximately 30 to 40 soil piles reportedly generated from other school district properties are located near the south-central portion of the Project Site. These soil piles are considered undocumented fill material and need to be characterized.

Subsurface investigations at the former MCAS identified a large solvent groundwater plume (OU-1B North) located northwest of the Project Site, which is indicated to extend beneath the western portion of the Project Site. In addition, the OU-1B North groundwater plume was discovered to contain per- and PFAS. Through groundwater monitoring and additional groundwater investigations several PFAS groundwater plumes were identified at the former MCAS. The OU-1B North groundwater plume is considered a potential REC to the Project Site. Information regarding the Tustin MCAS – Legacy project is presented in **Appendix A**.

During the Padre site reconnaissance, approximately 30 to 40 grass covered soil piles (undocumented fill material), were observed near the south-central portion of the Project Site. According to Tustin USD, these soil piles were generated from various projects located at other school district properties.

2.0 SITE DESCRIPTION

The Project Site consists of an approximately 9-acre vacant lot located within the City of Tustin, Tustin Legacy Specific Plan, Neighborhood D, within the former MCAS Tustin Base. Currently, the Project Site is covered with grass and secured with a chain-link fence.

The Project Site is owned by the Tustin USD and is identified by Orange County as assessor's parcel number (APN): 430-391-76. A small portion of the Project Site (approx. 0.8 acres) is identified by Orange County to be a portion of APN: 430-381-90.

The Project Site is bordered to the north and northeast by Valencia Avenue, beyond which is a residential development; to the south by Legacy Road, beyond which is the Legacy Magnet Academy; to the southeast beyond Valencia Avenue by a commercial shopping center; and to the west and northwest by land areas of the former MCAS.

2.1 Topography

Based on a review of the USGS 7.5-minute topographic quadrangle – Tustin, California (2021), the Project Site is situated at an approximate elevation of 60-feet above mean sea level (amsl). The Project Site consisted of a relatively level grass-covered vacant lot, that is situated approximately 2- to 3-feet higher than the surrounding area. The Project Site slopes downward towards street level at the property perimeter. Typically, rainfall would infiltrate into the vegetated surface area, and surface drainage from excessive precipitation would flow to storm drain inlets located in adjacent streets.

2.2 Geology

The Subject Property is located within the Peninsular Ranges Geomorphic Province of California. The Peninsular Ranges stretch approximately 900 miles from the Los Angeles Basin to the southern tip of the Baja California Peninsula and are bounded to the east by the Colorado Desert. The Peninsular Ranges Province is divided into three major fault bounded tectonic blocks within the San Andreas Fault System, consisting of the Santa Anna, Perris, and San Jacinto Blocks. The ranges are seismically active and include parts of four major northwest-striking, right-lateral strike slip Pacific and North American plate boundary fault zones. These include the Elsinore fault zone to the east, the Newport-Inglewood-Rose Canyon offshore fault zone to the west, and the Coronado Bank fault, and San Diego Trough fault zone to the southwest (Norris and Webb, 1990).

According to the California Division of Mines and Geology, *Geologic Map of the Santa Ana Sheet, California, (1:250,000)*, 1965 (second printing 1973), the Subject Property is underlain by Quaternary-aged alluvium.

2.3 Soils

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Services (NRCS), Web Soil Survey of Orange County and Part of Riverside County (Websoil, 2025), the surface soil at the Project Site consists of Chino silty clay loam, drained. This soil unit consists of alluvium derived from sedimentary sources. A typical profile consists of silty clay loam to 60-inches. Chino silty clay loam has slopes of 0 to 2 percent and is somewhat poorly drained.

2.4 Groundwater

The Project Site is located within the Coastal Plain of Orange County groundwater basin. The Coastal Plain of Orange County groundwater basin underlies a coastal alluvial plain in northwestern Orange County. The basin is bound on the northwest and the north by the Los Angeles-Orange County line. The Whittier fault zone and consolidated rocks of the Puente Hills and Chino Hills bound the northeast extent of the basin. The basin is bound on the east by consolidated rocks of the Santa Ana Mountains and on the south by consolidated rocks of the Laguna Hills and San Joaquin Hills. The Pacific Ocean is the southwest extent of the basin.

During Phase II site assessment activities, shallow groundwater was initially encountered at approximate depths ranging from 11- top 28-feet below ground surface (bgs). In general the groundwater flow direction in the area of the Project Site is to the southwest.

3.0 SCOPE OF WORK

3.1 Field Sampling Plan

Padre prepared the document titled *Field Sampling Plan and Health & Safety Plan, Phase II Environmental Site Assessment, District Offices and Outdoor Event Center, Tustin, Orange County, California* dated September 2025.

The Field Sampling Plan (FSP) portion of the document presented the technical approach, procedures, protocols, materials, equipment, and laboratory analytical program that was utilized during the sampling activities. The HSP portion of the document presented the necessary procedures that were employed to protect worker and community health and safety throughout the course of the sampling project.

3.2 Clearance of Underground Utilities and Permits

Padre completed a pre-assessment site visit prior to the scheduled start of field activities. During the course of the pre-assessment site visit, Padre demarcated the surface location of each proposed drill hole location with a painted white symbol. Underground Services Alert (USA) was notified a minimum of two working days prior to the planned work including the location and number of drill holes. Additionally, Padre subcontracted with (SoCal Locators of Fontana, California in an attempt to locate underground utilities in the area of the planned assessment using geophysical methods included ground penetrating radar.

The Orange County Environmental Health Division (EHD) reviews all subsurface drilling permit applications for environmental and geotechnical purposes. Padre submitted the permit application and associated fee for APN 430-391-76 which included six (6) drill hole locations to EHD for review and approval.

On September 22, 2025 Padre was informed by EHD that one of the drill hole locations was located on APN 430-381-90 and would need to be permitted separately, moved to the permitted APN area, or omitted. Based on the drilling schedule, the drill hole location on APN 430-381-90 was omitted, and the permit was amended to include five (5) drill locations. The approved drill hole permit (No. 29-05-30) along with EHD correspondence is presented in **Appendix B**.

3.3 Sample Locations

The Phase II sampling activities were conducted in general accordance with the FSP/HSP (Padre, Sept 2025). The sample locations and presented on **Plate 3** and **Plate 4**. On September 16, 2025 Padre staff collected soil samples to characterize approximately 200 cubic yards of undocumented fill material located at the Project Site. In addition, on September 25 and 26, 2025, Padre staff along with the drilling subcontractor completed the soil gas and groundwater assessment activities. The drilling contractor was Cascade Drilling of Santa Ana, California (C-57 #1069034).

The field sampling schedule is presented in **Table 1**, and the sample collection information is presented in **Table 2**. Sample locations were identified using an EOS Arrow 100 handheld electronic navigating device operating with the United States Government's Global Positioning Satellite (GPS) system. In addition, the soil pile sample locations were staked using wood lathe.

3.4 Soil Gas Sample Collection

The soil gas investigation was performed in general accordance with DTSC's *Advisory - Active Soil Gas Investigations* dated July 2015. A direct push drill rig was utilized to collect soil gas samples at five (5) locations across the Project Site. Temporary soil vapor wells were completed to depths of approximately 5-feet and 10-feet. The HSP/FSP proposed to collection of soil gas samples at 5-feet and -15-feet, however based on tight soils (stiff clay) encountered at 15-feet, soil vapor could not be obtained at this depth.

A soil vapor probe was constructed within each temporary well using sand-pack and hydrated with bentonite to the surface to seal the well. The temporary well was completed with a gas tight fitting well cap and sample port. After a minimum of two hours, a soil gas sample was collected at each location using a 1-Liter summa canister and fittings provided by the analytical laboratory and chemically analyzed for the presence of VOCs.

Soil gas sample containers were sealed, initialed, labeled with the time and date of collection, project number, and a unique sample identification number, and then delivered to the analytical laboratory under chain-of-custody protocol. Initial and final sample container pressures were recorded on the chain-of-custody.

3.5 Groundwater Sample Collection

Groundwater samples were collected utilizing a direct push drilling rig to install temporary wells to collect groundwater samples at five (5) locations across the Project Site. The temporary groundwater wells were constructed of slotted PVC piping, and water samples were collected using Teflon tubing fitted with a check-valve.

Groundwater samples were transferred to appropriate sample containers and submitted for chemical analysis by a California certified laboratory for the presence of VOCs and PFAS. Groundwater sample containers were sealed, initialed, labeled with the time and date of collection, project number, and a unique sample identification number, and then placed on ice, in a cooler, for delivery to the analytical laboratory under chain-of-custody protocol.

Upon completion of sample collection, each drill hole was abandoned using neat cement introduced through a tremmie pipe to approximately 1-foot bgs. The remaining foot was filled with surrounding soil to existing surface grade.

3.6 Soil Sample Collection – Soil Piles

Based on DTSC's *Information Advisory for Clean Imported Fill Material* (October 2001), Padre staff collected four (4) representative soil samples to characterize approximately 200 cubic yards of undocumented import fill material located at the Project Site.

At each sample location, four (4) discrete soil samples were collected by Padre. The discrete soil samples were made into a 4-point composite (4:1) soil sample by the analytical laboratory for a total of four composite soil samples. The composite soil samples were chemically analyzed for organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), CAM 17 Metals, and VOCs

Soil samples were collected in pre-cleaned 2-inch x 6-inch stainless steel sampling sleeves using hand-held sampling equipment. The sample sleeves will be sealed with Teflon sheets and plastic end caps, initialed, labeled with the time and date of collection, project number, and a unique sample identification number, and then placed on ice, in a cooler, for delivery to the analytical laboratory under chain-of-custody protocol.

3.7 Decontamination Procedures

Sampling equipment that came into contact with potentially contaminated soil was decontaminated to assure the quality of samples collected. Disposable equipment intended for one time use was not decontaminated but packaged for appropriate disposal. Decontamination occurred prior to and after each use of a piece of equipment. For soil sampling related to the soil piles, sampling devices used were decontaminated using the following procedures:

- Non-phosphate detergent and tap water wash, in a 5-gallon plastic bucket, using a brush;

- Deionized/distilled water rinse, in a 5-gallon plastic bucket; and
- Final deionized/distilled water rinse in a 5-gallon plastic bucket.

Due to the analysis of PFAS in groundwater samples, decontamination of equipment during drilling activities consisted of a dry method. This included using brushes and wiping drilling rods to remove visible soil after removal from each drill hole.

Investigative derived waste (soil) was placed in separate 55-gallon drums and temporarily stored at the Project Site pending approval for offsite transportation and disposal. The drums will be transported and disposed of by a licensed waste hauler to a properly licensed disposal facility. Once removed from the Project Site, documentation will be provided under separate cover.

3.8 Laboratory Analytical Program

All collected soil, soil gas, and groundwater samples were delivered under chain-of-custody procedures to a State of California-certified laboratory for chemical analyses. Collected soil samples were chemically analyzed for the presence of the following constituents:

Soil Gas -

- VOCs by U.S. EPA Method TO-15.

Groundwater -

- VOCs by U.S. EPA Method 8260; and
- PFAS by U.S. EPA Method 1633.

Soil Piles-

- OCPs by U.S. EPA Method 8081B;
- TPH by U.S. EPA Method 8015M; and
- VOCs by U.S. EPA Method 8260.
- CAM 17 Metals by U.S. EPA Method 6020/7000 series; and
- PCBs by U.S. EPA Method 8082.

4.0 FIELD OBSERVATIONS AND ANALYTICAL RESULTS

4.1 Field Observations

In general soils encountered at the Project Site consisted of medium dense, fine grained silty sand in the upper 3- to 4-feet. From approximately 4- to 25-feet bgs soil consisted of a moderately stiff sandy lean clay with thin lenses and silt and sand. No indications (visual, olfactory) of contamination were observed in any of the drill holes. Groundwater was encountered at depths ranging depths ranging from approximately 11- to 28-feet bgs. A Project Site geologic cross-section is presented as **Plate 7**. Drill hole logs are presented in **Appendix C**.

4.2 VOCs in Soil Gas

At five locations across the Project Site (SV-1 through SV-5) soil gas samples were collected from approximate depths of 5- and 10-feet and chemically analyzed for the presence of VOCs. The results are summarized in **Table 3** and below. Benzene concentrations in soil gas are presented on **Plate 4**.

- Acetone concentrations ranged from 37 to 160 micrograms per cubic meter (µg/m^3);
- Benzene concentrations ranged 12 to 24 µg/m^3;
- Bromomethane was reported at a concentration of 1.3J µg/m^3;
- Carbon disulfide concentrations ranged from 1.7J to 580 µg/m^3;
- Carbon tetrachloride concentrations ranged from 1.1J to 1.2J µg/m^3;
- Chloroethane was reported at a concentration of 0.80J µg/m^3;
- Chloroform was reported at a concentration of 3.8 µg/m^3;
- Chloromethane concentrations ranged from 0.87J to 4.0J µg/m^3;
- Dichlorodifluoromethane concentrations ranged from 2.0J to 2.3J µg/m^3;;
- Ethylbenzene concentrations ranged from 1.7J to 4.4 µg/m^3;
- t-Butyl Alcohol (TBA) concentrations ranged from 3.4J to 5.5J µg/m^3;
- Tetrachloroethene (PCE) concentrations ranged from 1.8J to 6.9 µg/m^3;
- Toluene concentrations ranged from 1.7J to 33 µg/m^3;
- Trichlorofluoromethane concentrations ranged from 1.7J to 2.3J µg/m^3;
- Vinyl acetate concentrations ranged from 5.3J to 14 µg/m^3;
- Vinyl chloride was reported at a concentration of 0.99J µg/m^3;
- o-Xylene concentrations ranged from 1.5J to 3.9 µg/m^3;
- m,p-Xylene concentrations ranged from 3.2J to 10 µg/m^3;
- 1,2,4-Trimethlbenzene concentrations ranged from 2.1J to 2.8J µg/m^3;
- 2-Butanone concentrations ranged from 11 to 55 µg/m^3;
- 2-Hexanone concentrations ranged from 3.0J to 9.3 µg/m^3; and
- All other VOCs were not identified at or above their respective reporting limits.

4.3 VOCs in Groundwater

At five locations across the Project Site (GW-1 through GW-5) groundwater samples were collected from the temporary groundwater wells and chemically analyzed for the presence of VOCs. Results of the laboratory analysis are summarized in **Table 4** and below.

- Acetone concentrations ranged from 8.9J to 14 micrograms per Liter (µg/L);
- Benzene was reported at a concentration of 0.25J µg/L; and
- All other VOCs were not reported at or above their respective reporting limits.

4.4 PFAS in Groundwater

At five locations across the Project Site (GW-1 through GW-5) groundwater samples were collected from the temporary groundwater wells and chemically analyzed for the presence of PFAS. Results of the laboratory analysis are summarized in **Table 5** and below. PFOA and PFOS concentrations are presented on **Plate 5**.

- PFBA concentrations ranged from 79 to 2,100 nanograms per Liter (ng/L);
- PFPeA concentrations ranged from 130 to 4,100 ng/L;
- PFHxA concentrations ranged from 94 to 3,900 ng/L;
- PFHpA concentrations ranged from 35 to 1,100 ng/L;
- PFOA concentrations ranged from 220 to 3,000 ng/L;
- PFNA concentrations ranged from 6.3 to 95 ng/L;
- PFDA concentrations ranged from 0.75J to 0.98J;
- PFBS concentrations ranged from 70 to 1,700 ng/L;
- PFPeS concentrations ranged from 42 to 1,200 ng/L;
- PFHxS concentrations ranged from 230 to 6,800 ng/L;
- PFHpS concentrations ranged from 6.0 to 130 ng/L;
- PFOS concentrations ranged from 150 to 5,000 ng/L;
- PFNS was reported at a concentration of 0.63J ng/L;
- 6:2 FTS concentrations ranged from 56 to 1,300 ng/L;
- 8:2 FTS concentrations ranged from 1.3J to 15 ng/L;
- PFOSA concentrations ranged from 0.99J to 1.3J; and

- All other PFAS were not reported at or above their respective reporting limits.

4.5 OCPs in Soil Piles

At each sample location, four (4) discrete soil samples were collected by Padre. The discrete soil samples were made into a 4-point composite (4:1) soil sample by the analytical laboratory for a total of four composite soil samples and chemically analyzed for OCPs. Results of the laboratory analyses are summarized in **Table 6** and below:

- OCPs were not reported at or above their respective reporting limits.

4.6 TPH in Soil Piles

At each sample location, four (4) discrete soil samples were collected by Padre. The discrete soil samples were made into a 4-point composite (4:1) soil sample by the analytical laboratory for a total of four composite soil samples and chemically analyzed for TPH. Results of the laboratory analyses are summarized in **Table 7** and below:

- TPH was not reported at or above their respective reporting limits

4.7 VOCs in Soil Piles

At each sample location, four (4) discrete soil samples were collected by Padre. The discrete soil samples were made into a 4-point composite (4:1) soil sample by the analytical laboratory for a total of four composite soil samples and chemically analyzed for VOCs. Results of the laboratory analysis are summarized in **Table 7** and below.

- Acetone was reported at concentrations ranging from 0.01J to 0.017J; and
- All other VOCs were not reported at or above their respective reporting limits.

Note: The symbol “J” denotes an approximate value by the analytical laboratory.

4.8 CAM 17 Metals in Soil Piles

At ten locations, discrete soil samples (DH-1 through DH-10) were collected from the first encountered surface soil (native material) and chemically analyzed for presence of CAM 17 Metals. Results of the laboratory analysis are summarized in **Table 4** and below.

- Antimony concentrations ranged from 0.298J to 0.323J milligrams per kilogram (mg/kg)
- Arsenic concentrations ranged from 5.1 to 5.46mg/kg;
- Barium concentrations ranged from 149 to 168 mg/kg;
- Beryllium concentrations ranged from 0.671 to 0.746 mg/kg;
- Cadmium concentrations ranged from 0.32J to 0.399J mg/kg;

- Chromium concentrations ranged from 21.3 to 24.1mg/kg;
- Cobalt concentrations ranged from 8.10 to 12.6 mg/kg;
- Copper concentrations ranged from 15.1 to 16.1 mg/kg;
- Lead concentrations ranged from 9.51 to 9.88 mg/kg;
- Mercury concentrations ranged from 0.029J to 0.048J mg/kg;
- Molybdenum concentrations ranged from 0.859 to 1.03 mg/kg;
- Nickel concentrations ranged from 15.1 to 17.4 mg/kg;
- Selenium concentrations ranged from 1.37 to 1.67 mg/kg;
- Silver was not identified above its' respective reporting limit;
- Thallium concentrations ranged from 0.186J to 0.193J mg/kg;;
- Vanadium concentrations ranged from 41.1 to 42.8 mg/kg; and
- Zinc concentrations ranged from 52.7 to 57.2 mg/kg.

4.9 PCBs in Soil Piles

At ten locations, discrete soil samples (DH-1 through DH-10) were collected from the first encountered surface soil (native material) and chemically analyzed for presence of CAM 17 Metals. Results of the laboratory analysis are summarized in **Table 4** and below.

- PCBs were not reported at or above their respective reporting limits.

4.10 Quality Assurance /Quality Control (QA/QC)

Eurofins Calscience (Eurofins) located in Tustin, California provided the required chemical analyses for soil and water samples collected at the Project Site. Eurofins is certified (No. 2944) by the State of California Environmental Laboratory Accreditation Program (ELAP) Branch to provide the required chemical analyses.

A cover letter with the signature of the project manager for Eurofins accompanied the laboratory the laboratory report received for this project. According to the project manager, samples were analyzed utilizing U.S. EPA or other ELAP approved methodologies, and that the results are in compliance both technically and for completeness. The data quality objectives (DQO) met by laboratory for this project was level II. Copies of the Eurofins laboratory reports are presented in **Appendix D.**

5.0 EVALUATION OF FINDINGS

The findings of the Phase II ESA for soil, soil gas, and groundwater samples collected at the Project Site were evaluated using appropriate regulatory screening levels which included the San Francisco Bay Regional Water Quality Control Board's Environmental Screening Levels (RWQCB ESLs, revised April 2025), the California Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Note No.3 (revised April 2025), or the US EPA's Region 9 Screening Levels (RSLs) updated in November 2024. The following is an evaluation of the Phase II ESA findings:

Soil Piles

TPH-g, TPH-mo, and VOCs concentrations in soil were not identified at or above their respective regulatory screening levels.

OCPs and PCBs concentrations in soil were not identified at or above their respective DTSC screening levels.

CAM17 Metals concentrations in soil were not identified at or above their respective DTSC-modified screening levels, nor above established background levels.

Soil Gas

Concentrations of benzene in all soil gas samples ranged from 12 to 24 µg/m^3 across the Project Site. The residential ESL for benzene in soil gas is 3.2 µg/m^3.

No other VOCs were identified in collected soil gas samples at or above their respective environmental screening levels.

Groundwater

Two PFAS compounds were identified were identified above RWQCBs ESLs in all five (5) groundwater samples collected across the Project Site. Concentrations of PFOA ranged from 220 to 3,000 ng/L. The ESL for PFOA is 0.0027 ng/L. Concentrations of PFOS ranged from 150 to 5,000 ng/L. The ESL for PFOS is 2 ng/L.

VOCs in groundwater were not identified at or above their respective regulatory screening levels.

5.1 Conclusions and Recommendations

Based on the findings of the Phase II ESA, Padre concludes that soil gas and groundwater located beneath the Project Site have been impacted from historic operations of the former Marine Corps Air Station (MCAS) facility, which is located west and adjacent to the Project Site.

Soil Gas

The presence of relatively low levels of benzene in soil gas beneath the Project Site can be mitigated with a passive vapor intrusion mitigation (VIM) system. This approach typically

includes the installation of a sub-slab vapor barrier during building construction and is used in combination with passive venting system.

Groundwater

The presence of two PFAS compounds in groundwater beneath the Project Site does not present a potential exposure scenario to site occupants for the reason that: 1) PFAS are not volatile, and 2) both potable water and irrigation water to the Project Site will be provided by municipal sources.

Soil Piles

Based on these findings, Padre concludes that the approximately 200 cubic yards of undocumented import fill material (soil piles) at the Project Site can be characterized as "*clean fill material*." This soil characterization was conducted for environmental purposes, only. The suitability of the soil for geotechnical purposes was not included as part of the scope of work for this report.

Closing

The findings of the Phase II ESA, Padre concludes that soil gas and groundwater located beneath the Project Site have been impacted from historic operations of the former Marine Corps Air Station (MCAS) facility, which is located west and adjacent to the Project Site.

According to the previously prepared Phase I ESA report (Padre, May 2025), the former Marine Corps Air Station (MCAS) facility is documented to have a contaminated groundwater plume (OU-1B North) containing solvents and PFAS, and which is inferred to extend beneath the western portion of the Project Site. On the State Water Resources Control Board (SWRCB) GeoTracker website, the MCAS is listed as an "open-remediation" site, which has been in the process of remediating the subject groundwater contaminate plume since 2007.

The California Department of Toxic Substances Control (DTSC) provides guidance on designing and installing vapor intrusion mitigation systems (VIMS). Padre recommends contacting an engineering firm that has expertise in designing VIMS to be incorporated into the planned construction of new buildings at the Project Site.

6.0 LIMITATIONS

This report has been prepared for the sole benefit of Tustin Unified School District and PlaceWorks. No other persons may rely on the findings of this report without the expressed written consent of the client and Padre Associates.

In performing our professional services, we have attempted to apply present engineering and scientific judgment and use a level of effort consistent with the standard of practice measured on the date of work and in locale of the project site for similar type studies. Padre Associates makes no warranty, express or implied. The analyses and interpretations presented in this report have been developed based on the results from the review of existing information pertaining to the Project Site.

7.0 REFERENCES

Advanced Environmental Concepts, Inc., *Final" Preliminary Endangerment Report, Tustin Unified School District, MCAS-Tustin, Parcel 17, Proposed High School Site, Tustin, California*, January 2007.

_____, *"Final" Preliminary Endangerment Report, Tustin Unified School District, MCAS-Tustin, Parcel 17, Proposed High School Site, Tustin, California*, December 2015.

_____, *Supplemental Site Investigation Workplan, Tustin Unified School District, MCAS-Tustin, Portions of Parcels 16 & 17, Southwest Intersection of Tustin Ranch Road and Valencia Avenue, Tustin, California*, March 2016.

CalEPA, DTSC, *Advisory, Active Soil Gas Investigations,* July 2015.

CalEPA, DTSC, *Human Health Risk Assessment (HHRA) Note 3: DTSC-modified Screening Levels (DTSC-SLs)*, Released June 2020 – Revised April 2025.

CalEPA, DTSC *Information Advisory for Clean Imported Fill Material*, October 2011.

CalEPA, OEHHA (OEHHA - Office of Environmental Health Hazard Assessment).

California Regional Water Quality Control Board – San Francisco Bay Region, Environmental Screening Levels (ESLs), 2025 (Rev. 2).

CH2M Hill, Inc., *Final Work Plan Groundwater Flow and Transport Modeling, Former Marine Corps Air Station (MCAS) El Toro, Irvine, California and Former MCAS Tustin, Tustin, California*, June 2023.

Norris, R. M., & R. W. Webb, 1976 (Second Edition 1990), *Geology of California*, John Wiley & Sons, New York, pp. 412-427.

Orange, County of, Environmental Health Division.

Padre Associates, Inc. *Phase I Environmental Site Assessment, District Offices and Outdoor Event Center, Northwest of Valencia Ave. and Legacy Rd., Tustin, Orange County, California*, May 2025.

Padre Associates, Inc. *Field Sampling Plan and Health & Safety Plan, District Offices and Outdoor Event Center, Tustin, Orange County, California*, September 2025.

State Water Resources Control Board Geotracker website (http://geotracker.swrcb.ca.gov)

State Water Resources Control Board, *MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants*, Updated September 2025.

U.S. EPA, *Regional Screening Levels (Region 9 RSLs)*, November 2024.

TABLES

Table 1 - Sampling Schedule

Test Method	Sample Depth	Number of Samples	Sample Location	Submittal Status
Soil Gas				
VOCs U.S. EPA Method TO-15	5 feet	5 (discrete)	SV-1, -2, -3, -4, and -5	Analyze
	10 feet	5 (discrete)	SV-1, -2, -3, -4, and -5	Analyze
Groundwater				
VOCs U.S. EPA Method 8260B	20 feet (anticipated)	5 (grab)	GW-1, -2, -3, -4, and -5	Analyze
PFAS U.S. EPA Method 1633		5 (grab)	GW-1, -2, -3, -4, and -5	Analyze
Soil Piles				
OCPs U.S. EPA Method 8081A PCBs U.S. EPA Method 8082 TPH (g,d,mo) U.S. EPA Method 8015M CAM 17 Metals U.S. EPA Method 6000/7000 VOCs U.S. EPA Method 8260B	Grab Sample(s)	4 Composite(s) (16 discrete soil samples made into 4:1 composite samples by the lab)	CS-1: SS-1A, SS-1B, SS-1C, SS-1D CS-2: SS-2A, SS-2B, SS-2C, SS-2D CS-3: SS-3A, SS-3B, SS-3C, SS-3D CS-4: SS-4A, SS-4B, SS-4C, SS-4D	Analyze All (composites)

Note:

VOC – Volatile Organic Compounds
PFAS - Polyfluoroalkyl Substances
OCP – Organochlorine Pesticides
PCB – Polychlorinated Biphenyls
TPH – Total Petroleum Hydrocarbons

Table 2 - Sample Collection Information

Sample Matrix and Test Method	Container	Preservative	Holding Time From Sample Collection to Extraction
Soil Gas			
VOCs U.S. EPA Method TO-15	Summa Canister (1 Liter)	None	30 days
Groundwater			
VOCs U.S. EPA Method 8260	Three, 40 mL VOAs	HCl / Ice	14 days
PFAS U.S. EPA Method 1633	Two, 500 mL HDPE One, 125 mL HDPE	None	28 days
Soil			
OCPs U.S. EPA Method 8081A	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	14 days
PCBs U.S. EPA Method 8082	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	14 days
TPH-g, -d, -mo U.S. EPA Method 8015m	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	14 days
CAM 17 Metals U.S. EPA Method 6000/7000	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	180 days
VOCs U.S. EPA Method 8260	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	14 days

Notes:

VOC – Volatile Organic Compounds
VOA – Volatile Organic Analysis
PFAS - polyfluoroalkyl Substances
OCP – Organochlorine Pesticides
PCB – Polychlorinated Biphenyls
TPH – Total Petroleum Hydrocarbons

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Table 3 - Soil Gas Results for VOCs by EPA Method TO-15 (µg/m^3 of Vapor)

Sample Identification	Date Collected	Sample Depth (feet)	Acetone	Benzene	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	Ethylbenzene	tert-Butyl Alcohol (TBA)	Tetrachloroethene	Toluene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	o-Xylene	m,p-Xylene	1,2,4-Trimethylbenzne	2-Butanone (MEK)	2-Hexanone	Isopropyl alcohol (LCC)
SV-1	9-26-25	5	**160**	**12**	<1.9	**12**	<3.1	<1.3	<2.4	<1.0	**2.0J**	**3.7**	**4.0J**	**3.9**	**15**	<5.6	**7.1**	<1.3	**1.7J**	**3.9J**	<7.4	**55**	**4.2J**	<12
SV-1	9-26-25	10	**79**	**20**	<1.9	**36**	**1.2J**	<1.3	**3.8**	**0.87J**	<2.5	**2.8**	<6.1	<3.4	**26**	<5.6	<7.0	<1.3	**1.5J**	**3.2J**	<7.4	**23**	<6.1	<12
SV-2	9-26-25	5	**72**	**14**	<1.9	**24**	<3.1	<1.3	<2.4	<1.0	**2.3J**	**4.4**	**5.2J**	**2.3J**	**24**	<5.6	**14**	<1.3	**3.1**	**8.0J**	**2.8J**	**25**	**9.3**	<12
SV-2	9-26-25	10	**96**	**15**	**1.3J**	**250**	<3.1	<1.3	<2.4	<1.0	**2.3J**	**3.6**	**4.8J**	**2.1J**	**17**	**1.7J**	<7.0	<1.3	**3.4**	**3.6J**	<7.4	**33**	<6.1	<12
SV-3	9-26-25	5	**46**	**17**	<1.9	**7.6**	<3.1	<1.3	<2.4	<1.0	**2.2J**	**3.7**	**4.5J**	**1.8J**	**33**	<5.6	<7.0	<1.3	**3.6**	**10**	**2.1J**	**11**	<6.1	**8.4J**
SV-3 DUPE	9-26-25	5	**48**	**24**	<1.9	**33**	<3.1	<1.3	<2.4	<1.0	**2.2J**	**3.9**	**4.2J**	<3.4	**31**	<5.6	**5.3J**	<1.3	**3.9**	**10**	<7.4	**12**	<6.1	**9.5J**
SV-3	9-26-25	10	**79**	**19**	<1.9	**580**	**1.1J**	<1.3	<2.4	**4.0J**	**2.3J**	**3.2**	**4.3J**	<3.4	**31**	**2.3J**	<7.0	**0.99J**	**3.0**	**7.9J**	<7.4	**17**	<6.1	<12
SV-4	9-26-25	5	**37**	**14**	<1.9	**21**	<3.1	**0.80J**	<2.4	**1.1**	**2.1J**	**1.9J**	**5.5J**	**1.8J**	**13**	<5.6	<7.0	<1.3	**1.9J**	**4.6J**	<7.4	**13**	<6.1	<12
SV-4	9-26-25	10	**58**	**21**	<1.9	**1.7J**	<3.1	<1.3	<2.4	<1.0	**2.3J**	<2.2	<6.1	<3.4	**1.7J**	<5.6	**5.9J**	<1.3	<2.2	<8.7	<7.4	**12**	<6.1	**7.9J**
SV-5	9-26-25	5	**140**	**12**	<1.9	**11**	<3.1	<1.3	<2.4	<1.0	**2.2J**	**1.7J**	**3.4J**	<3.4	**14**	<5.6	<7.0	<1.3	**1.7J**	**3.9J**	<7.4	**45**	**3.0J**	<12
SV-5	9-26-25	10	**110**	**20**	<1.9	**27**	<3.1	<1.3	<2.4	<1.0	<2.5	**2.3**	<6.1	**6.9**	**18**	<5.6	<7.0	<1.3	**1.7J**	**3.8J**	<7.4	**34**	<6.1	**8.2J**
Screening Level			31,000	0.097	5	730	0.47	94	0.12	94	100	1.1	5,200	0.46	440	1,300	210	0.32	100	100	63	5,200	31	--
Screening Level with 0.03 Attenuation Factor			1,033,333	3.2	167	24,333	16	3,133	4	3,133	3,333	37	173,333	15	14,667	43,333	7,000	10	3,333	3,333	2,100	173,333	1,033	--
Screening Level Source			ESL	SL	RSL	RSL	RSL	RSL	RSL	RSL	RSL	RSL	ESL	SL	SL	SL	RSL	ESL	RSL	RSL	RSL	RSL	RSL	--

Notes:

µg/m^3 – micrograms per cubic meter.
LCC – Leak check compound.
Only detected VOCs are listed. See laboratory report for full list of analytes and method detection limits.
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
ESL - SF Bay Regional Water Quality Control Board, Tier 1 Environmental Screening Level (2025, Rev 2)
SL – DTSC, Human Health Risk Assessment Note #3, Table 3 (Revised April 2025).
RSL – USEPA Regional Screening Level (November 2024).
"--" - not established.
XX – Concentration at or above screening level.

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Table 4 - Groundwater Results – VOCs
(results in µg/L)

Sample Identification	Date Collected	Acetone	Benzene	Toluene	Ethyl benzene	Total Xylenes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	All Other VOCs
U.S. EPA Method		8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
GW-1	9-26-25	**8.9J**	<0.50	<1.0	<1.0	<2.0	<1.0	<1.0	ND
GW-1 DUPE	9-26-25	<10	<0.50	<1.0	<1.0	<2.0	<1.0	<1.0	ND
GW-2	9-25-25	<10	<0.50	<1.0	<1.0	<2.0	<1.0	<1.0	ND
GW-3	9-25-25	<10	**0.25J**	<1.0	<1.0	<2.0	<1.0	<1.0	ND
GW-4	9-25-25	**14**	<0.50	<1.0	<1.0	<2.0	<1.0	<1.0	ND
GW-5	9-26-25	<10	<0.50	<1.0	<1.0	<2.0	<1.0	<1.0	ND
Screening Level		1,500	0.43	40	3.5	20	0.64	1.2	Varies
Screening Level Source		ESL	ESL	ESL	ESL	ESL	ESL	ESL	--

Notes:

TPH – Total Petroleum Hydrocarbons
VOCs – Volatile Organic Compounds
µg/L – micrograms per liter
Only detected VOCs are listed. See laboratory report for full list of analytes and method detection limits.
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
ND – not detected
ESL – SF Bay Regional Water Quality Control Board, Environmental Screening Levels (2025, Rev 2)

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Table 5: Groundwater Results for PFAS
(results in ng/L)

Sample Identification	Date Collected	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid((PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnA)	Perfluorododecanoic acid (PFDoA)	Pefluorotridecanoic acid (PFTrDa)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptanesulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorododecanesulfonic acid (PFDoS)	4:2 FTS	6:2 FTS	8:2 FTS
GW-1	9-26-25	**410**	**870**	**800**	**230**	**410**	<18	<18	<18	<18	<18	<18	**610**	**450**	**1500**	**24**	**220**	<18	<18	<18	<36	**64**	<36
GW-1 DUPE	9-26-25	**390**	**970**	**720**	**220**	**390**	<17	<17	<17	<17	<17	<17	**660**	**470**	**1,600**	**27**	**230**	<17	<17	<17	<34	**56**	<34
GW-2	9-25-25	**140**	**210**	**180**	**63**	**310**	**6.3**	**0.98J**	<2.0	<2.0	<2.0	<2.0	**150**	**82**	**320**	**7.4**	**340**	**0.63J**	<2.0	<2.0	<4.1	**130**	**15**
GW-3	9-25-25	**2100**	**4100**	**3900**	**1100**	**3000**	**95**	<18	<18	<18	<18	<18	**1700**	**1200**	**6800**	**130**	**5000**	<18	<18	<18	<36	**1300**	<36
GW-4	9-25-25	**960**	**1800**	**1700**	**390**	**1300**	**36**	<18	<18	<18	<18	<18	**1000**	**690**	**2500**	**59**	**950**	<18	<18	<18	<36	**360**	<36
GW-5	9-26-25	**79**	**130**	**94**	**35**	**220**	**9.7**	**0.75J**	<1.8	<1.8	<1.8	<1.8	**70**	**42**	**230**	**6.0**	**150**	<1.8	<1.8	<1.8	<3.7	**480**	**1.3J**
ESL		18000	--	9900	--	0.0027	59	0.04	6000	1000	--	20000	500	--	3	--	2	--	--	--	--	--	--
US EPA MCL		--	--	--	--	4	10	--	--	--	--	--	--	--	10		4	--	--	--	--	--	--
OEHHA Public Health Goal		--	--	--	--	0.007	--	--	--	--	--	--	--	--			1	--	--	--	--	--	--

Notes:

ng/L –nanograms per Liter
XX – Concentration at or above screening level
ESL - SF Bay Regional Water Quality Control Board, Direct Exposure Human Health Risk Levels (Table GW-1), Environmental Screening Levels (2025, Rev 2)
US EPA MCL –US Environmental Protection Agency Maximum Contaminant Level for drinking water (updated September 2025)
OEHHA Public Health Goal – California Office of Health Hazard Assessment Public Health Goal (April 2024).
-- - Not established.

Table 5: Groundwater Results for PFAS (cont')
(results in pg/g)

Sample Identification	Date Collected	Perfluorooctanesulfonamide (PFOSA)	NMeFOSA	NEtFOSA	NMeFOSAA	NEtFOSAA	NMeFOSE	NEtFOSE	HFPO-DA (Gen X)	ADONA	PFMPA	PFMBA	NFDHA	9Cl-PF3ONS	11Cl-PF3OUdS	PFEESA	3:3 FTCA	5:3 FTCA	7:3 FTCA
GW-1	9-26-25	<18	<18	<18	<18	<18	<89	<89	<13	<18	<18	<18	<18	<18	<18	<18	<36	<89	<89
GW-1 DUPE	9-26-25	<17	<17	<17	<17	<17	<86	<86	<13	<17	<17	<17	<17	<17	<17	<17	<34	<86	<86
GW-2	9-25-25	**1.3J**	<2.0	<2.0	<2.0	<2.0	<10	<10	<1.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	<10	<10
GW-3	9-25-25	<18	<18	<18	<18	<18	<90	<90	<14	<18	<18	<18	<18	<18	<18	<18	<36	<90	<90
GW-4	9-25-25	<18	<18	<18	<18	<18	<90	<90	<14	<18	<18	<18	<18	<18	<18	<18	<36	<90	<90
GW-5	9-26-25	**0.99J**	<1.8	<1.8	<1.8	<1.8	<9.2	<9.2	<1.4	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<3.7	<9.2	<9.2
ESL		--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--
US EPA MCL		--	--	--	--	--	--	--	10	--	--	--	--	--	--	--	--	--	--
OEHHA Public Health Goal		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

ng/L –nanograms per Liter
XX – Concentration at or above screening level
ESL - SF Bay Regional Water Quality Control Board, Direct Exposure Human Health Risk Levels (Table GW-1), Environmental Screening Levels (2025, Rev 2)
US EPA MCL –US Environmental Protection Agency Maximum Contaminant Level for drinking water (updated September 2025)
OEHHA Public Health Goal – California Office of Health Hazard Assessment Public Health Goal (April 2024).
-- - Not established.

Table 6: Soil Piles Results for OCPs
(results in µg/kg)

Sample Identification	Date Collected	Aldrin	alpha-BHC	beta-BHC	delta-BHC	Gamma-BHC	Chlordane-technical	DDD	DDE	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
CS-1 (SS-1A, -B, -C, -D)	9-16-25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
CS-2 (SS-2A, -B, -C, -D)	9-16-25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
CS-3 (SS-3A, -B, -C, -D)	9-16-25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
CS-4 (SS-4A, -B, -C, -D)	9-16-25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
Screening Level		39	86	300	3.8(	570	1,700	1,900	2,000	1,900	34	450,000[a]	450,000[a]	380,000	19,000	19,000[b]	19,000[b]	130	70	320,000	450
Screening Level Source		DTSC	DTSC	DTSC	RSL	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC

Notes:

µg/kg –micrograms per kilogram
DTSC - HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised April 2025)
RSL - USEPA Regional Screening Level (November 2024)
(a) – Screening Level for Endosulfan (HHRA Note #3, Revised April 2025)
(b) – Screening Level for Endrin (HHRA Note #3, Revised April 2025)

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Table 7: Soil Piles Results for TPH and VOCs
(results in mg/kg)

Sample Identification	Date Collected	TPH by EPA Method 8015B			VOCs by EPA Method 8260D					
		TPH as Gasoline (C_6 –C_{12})	TPH as Diesel (C_{10}-C_{28})	TPH as Motor Oil (C_{17}-C_{44})	Benzene	Toluene	Ethylbenzene	Total Xylenes	Acetone	All Other VOCs
CS-1 (SS-1A,-B -C -D)	9-16-25	<0.099	<4.9	<25	<0.00096	<0.00096	<0.00096	<0.0019	**0.015J**	ND
CS-2 (SS-2A, -B, -C, -D)	9-16-25	<0.096	<4.9	<25	<0.00096	<0.00096	<0.00096	<0.0019	**0.01J**	ND
CS-3 (SS-3A, -B, -C, -D)	9-16-25	<0.096	<4.9	<25	<0.00096	<0.00096	<0.00096	<0.0019	**0.011**	ND
CS-4 (SS-4A, -B, -C, -D)	9-16-25	<0.098	<5.0	<25	<0.00097	<0.00097	<0.00097	<0.0019	**0.017J**	ND
Screening Level		100	200	1,600	0.33	1,400	0.43	2.1	0.91	--
Screening Level Source		ESL	ESL	ESL	SL	SL	ESL	ESL	RSL	--

Notes:

TPH – Total Petroleum Hydrocarbons
VOC – Volatile Organic Compound
mg/kg – milligrams per kilogram
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
ND – Not Detected
ESL – SF Bay Regional Water Quality Control Board, Environmental Screening Levels (2025)
SL – DTSC, HHRA Note #3, Table 1 - DTSC-Recommended Screening Levels for Soil Analytes (Revised April 2025)
RSL - USEPA Regional Screening Level (November 2024)

Table 8: Soil Piles Results CAM 17 Metals
(results in mg/kg)

Sample Identification	Date Collected	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
CS-1 (SS-1A, -B, -C, -D)	9-16-25	**0.299J**	**5.36**	**149**	**0.671**	**0.332J**	**21.3**	**8.59**	**15.1**	**9.51**	<0.08	**0.936**	**15.2**	**1.58**	<0.84	**0.191J**	**41.1**	**52.7**
CS-2 (SS-2A, -B, -C, -D)	9-16-25	**0.283J**	**5.28**	**155**	**0.704**	**0.399J**	**22.6**	**10.8**	**16.1**	**9.88**	**0.048J**	**1.03**	**16.4**	**1.37**	<1.03	**0.186J**	**41.2**	**54.1**
CS-3 (SS-3A, -B, -C, -D)	9-16-25	**0.323J**	**5.10**	**168**	**0.731**	**0.383J**	**24.1**	**12.6**	**15.9**	**9.79**	**0.029J**	**0.918**	**17.4**	**1.67**	<0.899	**0.193J**	**42.8**	**57.2**
CS-4 (SS-4A, -B, -C, -D)	9-16-25	**0.298J**	**5.46**	**155**	**0.746**	**0.32J**	**22.5**	**8.10**	**15.4**	**9.72**	**0.03J**	**0.859**	**15.1**	**1.59**	<1.03	**0.188J**	**42.6**	**55.2**
Screening Level		31	12	15,000	16	7.1	120,000	23	3,100	80	0.67	390	820	390	390	1.6	390	23,000
Screening Level Source		RSL	DTSC	RSL	DTSC	DTSC	RSL	RSL	RSL	DTSC	DTSC	RSL	DTSC	RSL	RSL	RSL	RSL	RSL

Notes:

mg/kg – milligrams per kilogram
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
DTSC – HHRA Note #3, DTSC-Recommended Screening Level (Revised April 2025)
RSL - USEPA Regional Screening Level (November 2024)

Table 9: Soil Piles Results for PCBs
(results in mg/kg)

Sample Identification	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs Total
CS-1 (SS-1A, -B, -C, -D)	9-16-25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
CS-2 (SS-2A, -B, -C, -D)	9-16-25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
CS-3 (SS-3A, -B, -C, -D)	9-16-25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
CS-4 (SS-4A, -B, -C, -D)	9-16-25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Screening Level		6.6	0.20	0.17	0.23	0.23	0.24	0.24	0.23
Screening Level Source		DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC	DTSC

Notes:
PCBs – Polychlorinated biphenyls
mg/kg – milligrams per kilogram
DTSC – HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised April 2025)

PLATES



padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

DISTRICT OFFICES / OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 1

SITE LOCATION



padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (11/23)

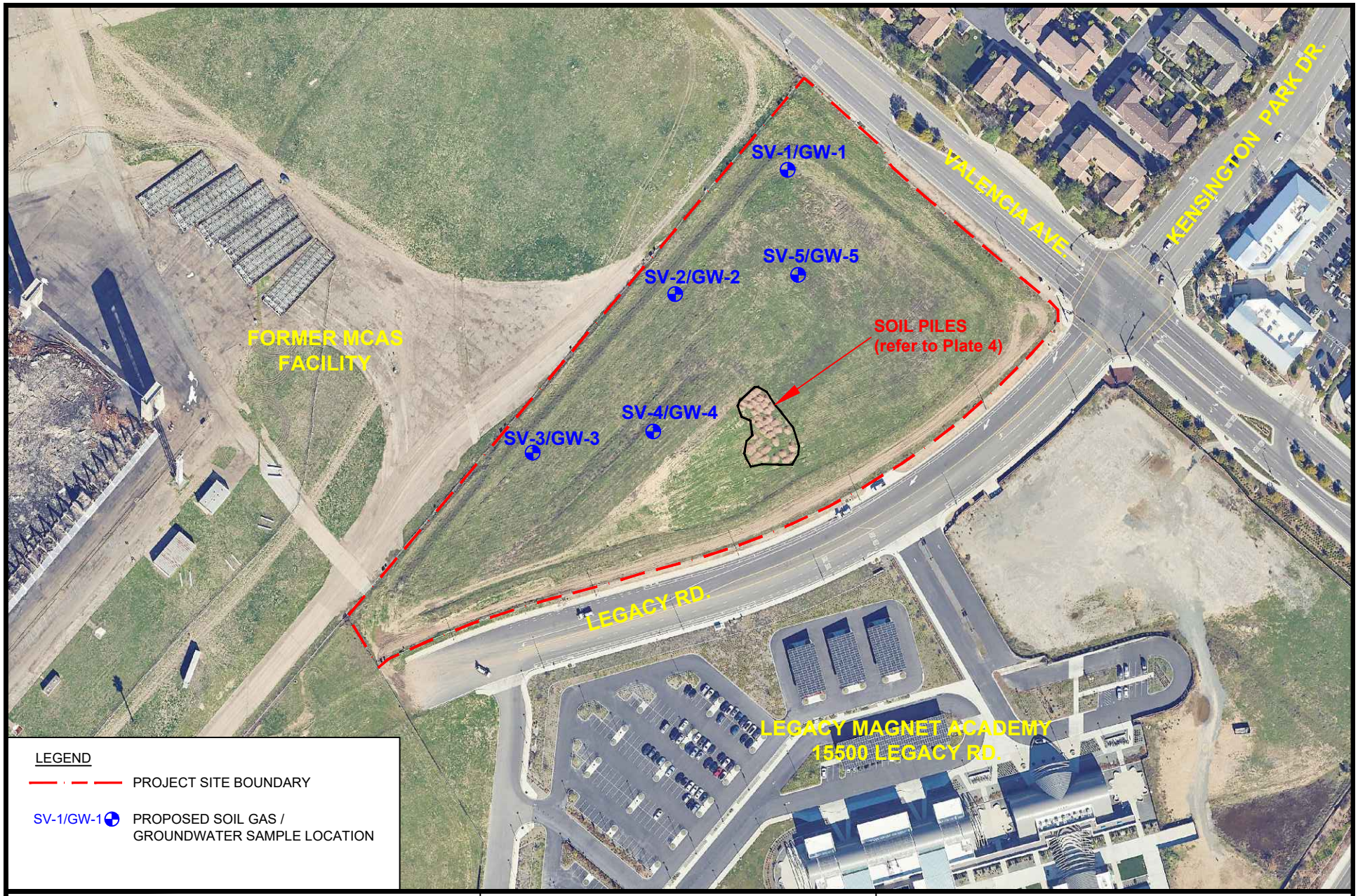
0 300
FEET

DISTRICT OFFICES / OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 2

SITE MAP



padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (11/23)

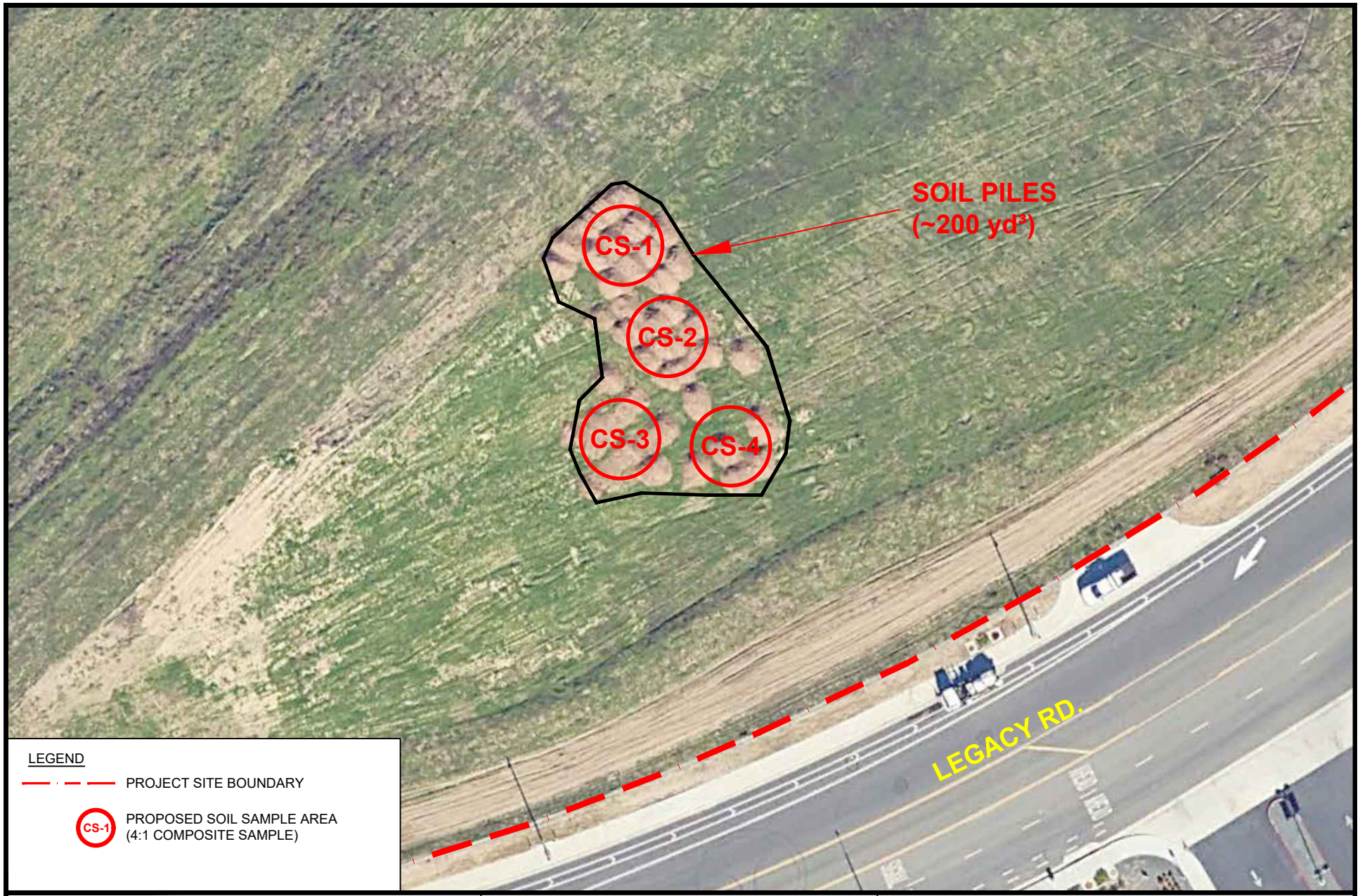
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FEET

DISTRICT OFFICES/OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 3

SAMPLING PLAN
(SOIL GAS AND GROUNDWATER)



padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (11/23)

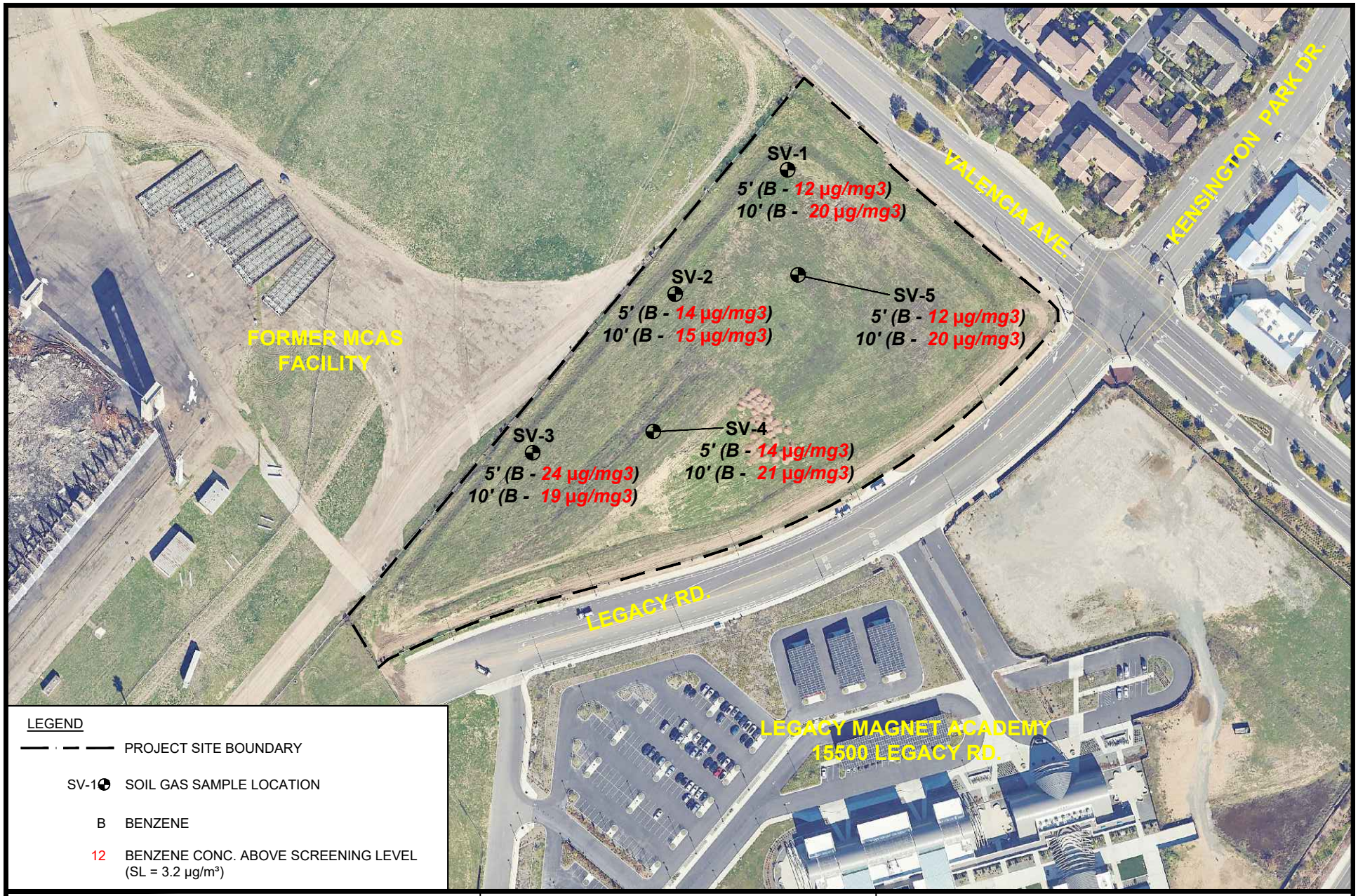
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FEET

DISTRICT OFFICES / OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 4

SAMPLING PLAN
(SOIL PILES)



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GOOGLE EARTH IMAGERY (11/23)

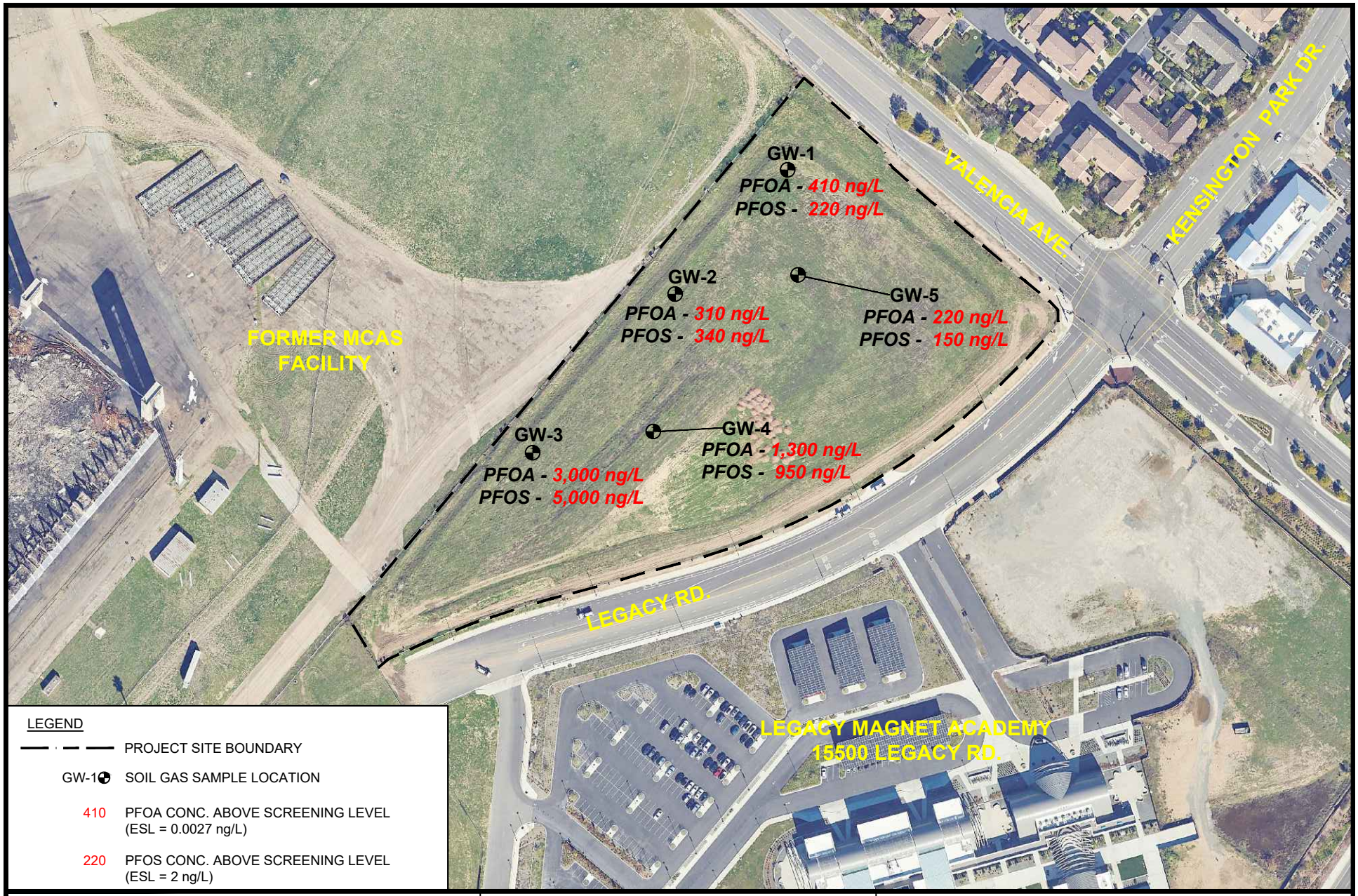
0 200
FEET

DISTRICT OFFICES/OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 5

SOIL GAS RESULTS (BENZENE)



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ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (11/23)

0 200
FEET

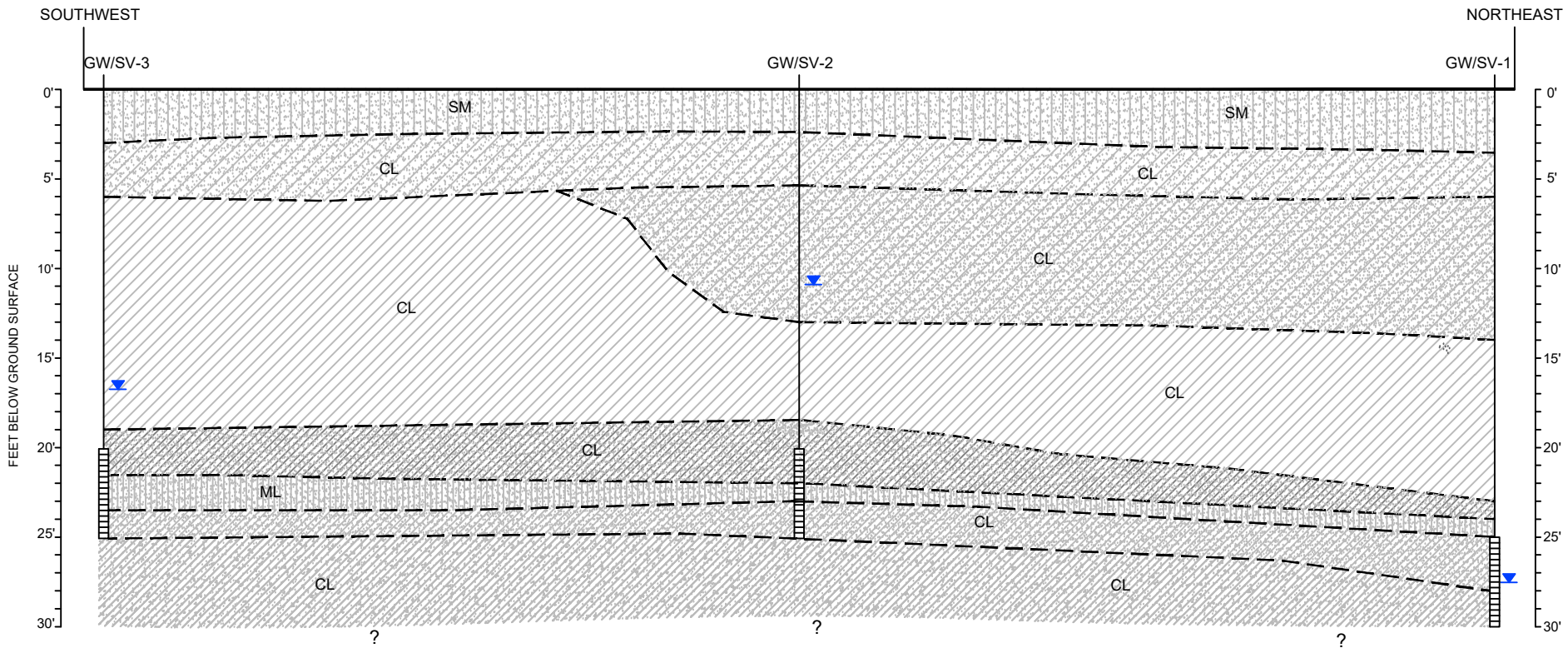
DISTRICT OFFICES/OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 6

GROUNDWATER RESULTS (PFOA and PFOS)

GENERALIZED PROJECT SITE CROSS-SECTION



LEGEND

- *Depth to Initial Water*
- *Screened Interval*
- *Gradational contact (approximate)*

Refer to the Drill Hole logs for soil descriptions

padre associates
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

DISTRICT OFFICES/OUTDOOR CENTER
VALENCIA AVENUE AND LEGACY ROAD
TUSTIN, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
2501-0092	11/5/25	AC	AJK

PLATE 7

PROJECT SITE CROSS-SECTION

APPENDIX A

TUSTIN MCAS – LEGACY INFORMATION

US MARINE CORPS AIR STATION TUSTIN - OU-1B - IRP-12 DRUM STORAGE AREA NO. 2 (DOD100395500) - (MAP)

SIGN UP FOR EMAIL ALERTS

COPELAND
TUSTIN, CA 92710
ORANGE COUNTY
MILITARY CLEANUP SITE (INFO)
OPEN - REMEDIATION AS OF 12/4/2007 - DEFINITION
ASSOCIATED ENVIROSTOR PROJECTS
PRINTABLE CASE SUMMARY / CSM REPORT

CLEANUP OVERSIGHT AGENCIES
DEPARTMENT OF TOXIC SUBSTANCES CONTROL *(LEAD)* - *CASE #: 30970002*
SANTA ANA RWQCB (REGION 8) *(LEAD)* - *CASE #: 165-81 -- 9*
CASE MANAGER: ***PATRICIA HANNON***

Summary Cleanup Action Report Regulatory Activities *Environmental Data (ESI)* Site Maps / Documents Community Involvement *Related Cases*

Regulatory Profile

PRINTABLE CASE SUMMARY

MILITARY BASE
TUSTIN MCAS

CLEANUP STATUS - DEFINITIONS
OPEN - REMEDIATION AS OF 12/4/2007 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
OTHER CHLORINATED HYDROCARBONS, PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS), TRICHLOROETHYLENE (TCE)

POTENTIAL MEDIA OF CONCERN
AQUIFER USED FOR DRINKING WATER SUPPLY, OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER), SOIL

FILE LOCATION
REGIONAL BOARD

DESIGNATED GROUNDWATER BENEFICIAL USE(S) - DEFINITIONS
MUN, AGR, IND, PROC

DWR GROUNDWATER SUB-BASIN NAME
Coastal Plain Of Orange County (8-001)

CALWATER WATERSHED NAME
Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)

Site History

Installation Restoration Program (IRP) Site 12 was located in the northwestern portion of the Former MCAS Tusitn, along Copeland Street. Site 12 occupies 3.5 acres and includes two buildings (90 and 20B) and several former drum storage areas once used to manage hazardous wastes, including assorted unidentified solvents, motor oil, and hydraulic fluids. Site 12 also includes a former underground storage tank site as well as 8 Areas of Concern. Three subareas within the site reportedly used for drum storage from the mid-1960s until 1975 and experienced leaks or releases. These release included: assorted organic liquids, including solvents, motor oil, and hydraulic fluids.

Site 12 was identified as a potential location of hazardous substance release during the 1983-1984 Initial Assessment Study. A Site Inspection was

conducted from 1990 through 1993 to confirm contaminate release at potential release locations. In 1994 through 1995 an expanded site characterization which included installation groundwater monitoring wells was completed. A Remedial Investigation was conducted from 1995 through 1997 to determine the nature and extend of contamination at IRP sites, including Site 12. Site 12 was placed into Operable Unit 1B. Based on the Remedial Investigation the most commonly and widespread contaminant detected in soil and groundwater was tricholoethene (TCE). Several other common solvents and or breakdown products of TCE were identified at trace levels in site soils.

The Final Record of Decision for Operable (OU) Unit 1B, dated October 2004 selected hot spot removal and off-site disposal for contaminated soil, extraction and treatment for contaminated groundwater, and institutional controls.

From July 29 through October 13, 2005, 3,356 cubic yards of solvent-contaminated soil from six locations was excavated and transported off-site for disposal.

The groundwater remediation system for OU-1A/-1B consist of groundwater extraction well, groundwater conveyance system, groundwater treatment systems, treated effluent discharge systems, and a groundwater monitoring network. Site 12 has 3 extraction wells were completed in the first water bearing zone (WBZ), 1 extraction well was completed in the second WBZ, 1 extraction well was completed as ﷺhot spot wells, and remaining wells were completed for hydraulic control. Primary extracted groundwater treatment utilizes activated carbon absorption. The effluent is discharge to the sanitary sewer system. The remedial system started operation on July 29, 2005.

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CASE SUMMARY

REPORT DATE
1/2/1965

HAZARDOUS MATERIAL INCIDENT REPORT FILED WITH OES?

I. REPORTED BY -

UNKNOWN

CREATED BY

UNKNOWN

III. SITE LOCATION

FACILITY NAME
US Marine Corps Air Station Tustin - OU-1B - IRP-12 Drum Storage Area No. 2

FACILITY ID

FACILITY ADDRESS
Copeland
Tustin, CA 92710
ORANGE COUNTY

ORIENTATION OF SITE TO STREET

CROSS STREET
Valencia Avenue

V. SUBSTANCES RELEASED / CONTAMINANT(S) OF CONCERN

OTHER CHLORINATED HYDROCARBONS
TRICHLOROETHYLENE (TCE)
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

VI. DISCOVERY/ABATEMENT

DATE DISCHARGE BEGAN

DATE DISCOVERED

HOW DISCOVERED
Site Assessment/Site Investigation

DESCRIPTION

DATE STOPPED

STOP METHOD
Change Operating Procedures
Other Means

DESCRIPTION

VII. SOURCE/CAUSE

SOURCE OF DISCHARGE

CAUSE OF DISCHARGE

DISCHARGE DESCRIPTION

VIII. CASE TYPE

CASE TYPE

Aquifer used for drinking water supply

Other Groundwater (uses other than drinking water)

Soil

IX. REMEDIAL ACTION

REMEDIAL ACTION	BEGIN DATE	END DATE	DESCRIPTION
Pump & Treat (P&T) Groundwater	7/29/2005	10/13/2005	Water from excavations treated at the treatment systems at UST 222 and IRP13S
Excavation	7/29/2005	10/13/2005	Soil was excavated from six locations
Pump & Treat (P&T) Groundwater	12/4/2007	12/30/2008	Final remedy installed and operational. Extracted groundwater is treated with granular activated carbon filters to remove the volatile organic compounds (VOCs) and is discharged to the sanitary sewer.
Pump & Treat (P&T) Groundwater	1/1/2008	12/31/2008	Flow volume is total for OU-1A/1B treatment system. Mass removal estimate is for total VOC for IRP Site 12.
Pump & Treat (P&T) Groundwater	1/1/2009	12/31/2009	Flow volume is total treated by the OU1A/1B treatment system. Mass removed is IRP Site 12 specific.
Pump & Treat (P&T) Groundwater	1/1/2010	12/31/2010	
Pump & Treat (P&T) Groundwater	1/1/2011	12/31/2011	
Pump & Treat (P&T) Groundwater	1/1/2012	12/31/2012	
Pump & Treat (P&T) Groundwater	1/1/2013	12/31/2013	
Pump & Treat (P&T) Groundwater	1/1/2013	12/31/2013	
Pump & Treat (P&T) Groundwater	1/1/2014	12/31/2014	
Pump & Treat (P&T) Groundwater	1/1/2015	12/31/2015	1.81 million gal. of groundwater extracted and treated
Pump & Treat (P&T) Groundwater	1/1/2020	12/31/2020	
Pump & Treat (P&T) Groundwater	1/1/2021	12/31/2021	
Pump & Treat (P&T) Groundwater	1/1/2022	12/31/2022	0.02 pounds of TCE was removed in 2022.
Pump & Treat (P&T) Groundwater	1/1/2023	12/31/2023	

X. GENERAL COMMENTS

Installation Restoration Program (IRP) Site 12 was located in the northwestern portion of the Former MCAS Tusitn, along Copeland Street. Site 12 occupies 3.5 acres and includes two buildings (90 and 20B) and several former drum storage areas once used to manage hazardous wastes, including assorted unidentified solvents, motor oil, and hydraulic fluids. Site 12 also includes a former underground storage tank site as well as 8 Areas of Concern. Three subareas within the site reportedly used for drum storage from the mid-1960s until 1975 and experienced leaks or releases. These release included: assorted organic liquids, including solvents, motor oil, and hydraulic fluids.

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XI. CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION REPORTED HEREIN IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

XII. REGULATORY USE ONLY

LOCAL AGENCY CASE NUMBER	REGIONAL BOARD CASE NUMBER
30970002	165-81 -- 9

LOCAL AGENCY

UNKNOWN

REGIONAL BOARD

CONTACT NAME	INITIALS	ORGANIZATION_NAME	EMAIL ADDRESS
PATRICIA HANNON	PAH	SANTA ANA RWQCB (REGION 8)	patricia.hannon@waterboards.ca.gov

ADDRESS
3737 MAIN STREET, SUITE 500
RIVERSIDE, CA 925013348

CONTACT DESCRIPTION

PHONE TYPE	PHONE NUMBER	EXTENSION
office	(951)-782-4498	

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Scale: 1" = 445'



Areas Requiring Institutional Controls - Groundwater
Areas Requiring Institutional Controls - Vapor Intrusion
TCE in Groundwater (2013)
Parcels to be donated by City of Tustin
Proposed Soil Gas Location (SG)
Proposed Soil, Soil Gas, and Groundwater Sampling Location
Former Proposed Boundary
MCAS Extraction Well
MCAS Monitoring Well

ADVANCED ENVIRONMENTAL CONCEPTS INC

220 East Truxtun Avenue
Bakersfield, California 93305
(661) 395-1646

Proposed Soil, Soil Gas, and Groundwater Sampling Locations

Tustin MCAS - Legacy
City of Tustin Donation Parcel(s)
County of Orange ● Tustin, California

FIGURE

2

APPENDIX B

ORANGE COUNTY PERMIT

APPLICATION FOR WELL/EXPLORATORY BORING PERMIT

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION
OFFICE: 1241 E. DYER ROAD, SUITE 120 SANTA ANA, CA 92705-5611
EHOCWELLS@OCHCA.COM
714-433-6000

WELL PERMIT NO. **25-09-30**

For multiple cities, addresses, or locations, complete a separate permit application. **PROPOSED START DATE** 09/25/2025

CITY: TUSTIN

WELL LOCATION / STREET INTERSECTION: **APN 430-391-76** **FIELD** WEST OF VALENICA AVE. AND LEGACY RD.

RECEIVED/ACCOUNTING SEP - 2 2025 ENVIRONMENTAL HEALTH

LATITUDE (DECIMAL): 33.710986

LONGTITUDE (DECIMAL): -117.820686

OVERSIGHT AGENCY (if applicable):

EMAIL PERMIT TO: ALAN CHURCHILL

■ Consultant ☐ Driller ☐ Well Owner

SERVICE ■ **Construction** ☐ **Destruction** (Fee is per well)

WATER WELLS (complete one permit application for per water well)
☐ Public Domestic/Municipal ☐ Private Domestic & No. of connections ___ ☐ Irrigation

☐ CATHODIC WELL (complete one permit application for per cathodic well)

NON-PRODUCTION WELLS (fee is the same as monitoring well construction) Total No. of Wells _____

☐ Monitoring ____ ☐ Air Sparge ____ ☐ Soil Vapor Extraction ___ ☐ Electrical Grounding Well ____

☐ Water Extraction ____ ☐ Inclinometer ____ ☐ Injection/Recharge ____ ☐ Geothermal Heat Exchange ___

☐ Piezometer ____ ☐ Horizontal ____ ☐ Soil Vapor Probes ____ (non-Direct Push) ☐ Other _____ _____

EXPLORATORY BORINGS
(complete separate permits for probe survey and soil boring. Also complete the WELL & EXPLORATORY BORING DESTRUCTION section on the next page.)

■ Probe Survey (CPT or Direct Push Only) 6 (flat fee)
■ Probe Survey Soil Vapor Probes (Direct Push) 6 (flat fee)
☐ Soil Boring (hollow stem auger, mud rotary, sonic, or bucket auger, etc...) ___
(Fee for soil borings is same as Monitoring Well)

FOR ACCOUNTING USE ONLY
HSO NO 444595 PAYMENT METHOD CC # 14823
DATE 09/12/25 AMOUNT 788.00
INTL kaA

APPROVAL BY OTHER AGENCIES
JURISDICTION **CA WELL STANDARDS & OC WELL ORDINANCE**
REMARKS

THE SOIL VAPOR PROBES (SVPs) WERE APPROVED AND PERMITTED WITH EXEMPTIONS FROM THE MINIMUM CONSTRUCTION STANDARDS FOR MONITORING WELLS. THEREFORE, THEY ~~REQUIRE OVERDRILLING OUT WITHIN 2 WEEKS OF COMPLETION.~~ THE REMAINING BOREHOLES SHALL BE BACKFILLED WITH AN APPROVED SEALING MATERIAL FROM BOTTOM TO WITHIN 5 FEET B.G.S.

AUTHORIZED SIGNATURE DATE

FOR OFFICE USE ONLY
NO PERMIT IS DEEMED COMPLETED UNTIL THE FOLLOWING ARE MARKED AND SIGNED OFF:
☐ NOTIFICATION OF COMPLETION RECEIVED
☐ FINAL INSPECTION
☐ ALL REQUIRED DOCUMENTS RECEIVED

PRINT NAME PHONE NUMBER

DISPOSITION OF PERMIT (FOR OFFICE USE ONLY)
X APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
NOTIFY THIS AGENCY AT LEAST 48 HOURS:
X PRIOR TO ANY CHANGES OF THE WORK PLAN.
☐ PRIOR TO SEALING THE ANNULAR SPACE.
☐ PRIOR TO FILLING OF CONDUCTOR CASING.
X SUBMIT TO THIS AGENCY, WITHIN 30 DAYS OF COMPLETION OF WORK, A COPY OF THE WELL COMPLETION REPORT(S) AND/OR DRILLING LOG(S). PLEASE REFERENCE PERMIT NO.
X SECURE ALL WELLS TO PREVENT TAMPERING.
X NOTIFY WHEN ALL WORK IS COMPLETED AND INCLUDE THE DEPTH TO FIRST ENCOUNTERED WATER, PHOTO DOCUMENTATION, AND/OR COPIES OF CEMENT TICKETS/CALCULATIONS.
☐ WORK COMPLETED PRIOR TO SUBMITTING PERMIT APPLICATION TO THIS AGENCY
X OTHER **PERMIT EXPIRES ON 09-23-2026**

Juan Anzora 09-19-2025
PERMIT ISSUED BY DATE

JUAN ANZORA **714-433-6287**
PRINT NAME PHONE NUMBER

WHEN SIGNED BY AN ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A VALID PERMIT.
(R01/22)

I hereby agree to comply with all applicable requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones. A violation of the California Well Standards and the local Well Ordinances may constitute a misdemeanor (County Well Ordinance Sec. 4-5-31).

WELL OWNER

WELL OWNER'S NAME	EMAIL ADDRESS
TUSTIN UNIFIED SCHOOL DISTRICT	trizzuti@tustin.k12.ca.us
WELL OWNER'S ADDRESS / CITY / STATE/ ZIP CODE	**TELEPHONE NUMBER**
300 SOUTH C ST., TUSTIN, CA 92780	949-293-4850
WELL OWNER'S SIGNATURE	**DATE**
Tom Rizzuti — Digitally signed by Tom Rizzuti DN: C=US, E=trizzuti@tustin.k12.ca.us, O=Tustin Unified School District, CN=Tom Rizzuti Reason: I am approving this document Date: 2025.09.08 14:04:58-07'00'	09/09/2025

CONSULTING FIRM

NAME OF CONSULTING FIRM	BUSINESS ADDRESS/CITY/STATE/ZIP CODE	PROFESSIONAL LICENSE NUMBER
PADRE ASSOCIATES	1861 KNOLL DR., VENTURA, CA 93003	PG 9378

CONSULTANT'S SIGNATURE	DATE	EMAIL ADDRESS
Alan Churchill — Digitally signed by Alan Churchill Date: 2025.09.08 14:58:56 -07'00'	09/09/2025	achurchill@padreinc.com

DRILLING CONTRACTOR

NAME OF DRILLER	EMAIL ADDRESS	C-57 LICENSE NUMBER
CASCADE Remediation Services	aamort@cascade-env.com	1069034
DRILLER'S SIGNATURE		**DATE**
Alexander Amort — Digitally signed by Alexander Amort DN: CN=Alexander Amort, E=aamort@cascade-env.com, C=US Reason: I am the author of this document Location: Date: 2025.09.08 11:21:26-07'00' Foxit PDF Editor Version: 2025.1.0		09/09/2025

REQUIRED DOCUMENTS

WATER & STORMWATER DRY INJECTION WELL CONSTRUCTION

☐ An approval from the Division of Drinking Water (DDW) for public or municipal water wells.

☐ A cross-section well diagram detailing total depth, borehole diameter, depth and thickness of the sanitary seal(s), type(s) of casing(s), and length(s) of screen(s) / slotting. A top view is required for nested wells that demonstrate the radial thickness separation.

☐ Indicate the number of water aquifers the well will be screened through.

☐ A site map using a 250-foot radius from the proposed water well location that includes locations and distances to:

- All existing, active, inactive, and/or abandoned water wells.
- All existing, abandoned, and/or proposed sewer lines, recycled water lines, and storm drain lines.
- All active and/or abandoned leach fields, cesspits, and septic tanks.
- All animal enclosures (e.g., stables, coops, kennels, etc.).
- All water courses and/or bodies of water, including, but not limited to: rivers, creeks, ponds, retention ponds, and/or swimming pools.
- All other underground storage tanks and open (regulated) remediation sites.
- All nearby structures (e.g., commercial and residential buildings, houses, storage sheds) sanitary hazards and their locations.

NON-PRODUCTION WELL CONSTRUCTION

☐ Written work plan. For regulated sites, an approved work plan by the overseeing regulatory agency must be included for the installation of any type of nested well.

☐ Site map(s) showing the locations of the proposed wells (no topographical maps).

☐ A cross-section well diagram detailing total depth, borehole diameter, depth and thickness of the sanitary seal(s), type(s) of casing(s), and length(s) of screen(s) / slotting. A top view is required for nested wells that demonstrates a 2-inch radial thickness separation between casings and casing and wall of the borehole.

WELL & EXPLORATORY BORING DESTRUCTION

■ Written work plan. For regulated sites, an approval of the work plan by the overseeing regulatory agency must be included.

■ Site map(s) showing the locations of the wells to be destroyed (no topographical maps).

■ Type and amount of sealant (show calculations for water wells):

Total depth ~210 feet Borehole diameter 3 inches Sealing material NEAT CEMENT

■ Method of destruction:

☐ Pressure grout / removal of top 5 feet casing / removal of well boxes ■ Overdrill ☐ Excavation

■ Other vapor wells will be overdrilled within 2 weeks of sampling; direct push probes will be tremmie grouted.

(R01/22)

25-09-30 TEMPORARY NESTED SOIL VAPOR PROBE CONSTRUCTION PERMIT

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION
HEALTH SERVICE ORDER

M53525 Wells 444595

Date 9,12,25 Initials MA

Client Name Tustin Unified School District

Address 300 South C. St. Tustin, CA 92780 Ph# _____

Paid By Padre Associates, Inc. Engineer Geologists & Environmental Scientists

Address 1861 Knoll Drive. Ventura, CA 93003 Ph# _____

Please circle the respective service code(s)

01	FSP /HSF (Acct/Bat# _____)	$_____
02	FSP Plan Check/Foods (PC# _____)	$_____
03	PSP Plan Check/Pools (PC# _____)	$_____
04	Food Vehicles Cat _____	$_____
	Decal No(s) _____ _____	
05	FSP/ PSP Restitution or Judgement	$_____
	Name _____	
	Case# _____	
06	Hotels/Motels (Acct/Bat# _____)	$_____
07	Massage Parlor (Acct/Bat# _____)	$_____
08	PSP Pool Safety Program	$_____
09	Liquid Waste Hauler	$_____
11	Aboveground Petroleum Storage Act	$_____
12	Hazardous Waste (Acct/Bat# _____)	$_____
13	CUPA Administrative Enforcement Orders	$_____
14	Hazardous Waste Restitution/Judgment	$_____
	Name _____	
	Case# _____	
15	Hazardous Waste Clean-up _____	$_____
16	Medical Waste/Body Art _____)	$_____
17	UST/HSF (Acct/Bat# _____)	$_____
18	UST Plan Check (PC# _____)	$_____
19	UST State Surcharge	$_____
20	UST Restitution/Judgment	$_____
	Name _____	
	Case# _____	
(21)	Wells (Const X Recon____ Destr _____)	$ 788.00
	Water____ Cath____ Init. Monit. _____)	
	Add. Monit.____ #Wells 6 TEMP. NESTED SVP	
	Driller CASCADE REMEDIATION SERVICES	
	Consultant PADRE ASSOCIATES	
22	Backflow/Cross Connection _____	$_____
	Client(s) _____	
	_____	
23	Small Water Systems	$_____
24	CUPA - Base Fee	$_____
25	CUPA - CalArp	$_____
26	FOG- OC Sanitation District	$_____
27	Tierred Permitting	$_____
43	Haz Mat Disclosure	$_____
__	OTHER _____	$_____
__	OTHER _____	$_____
__	OTHER _____	$_____
__	OTHER _____	$_____

PAID BY CHECK NO: 14823

07/04/25

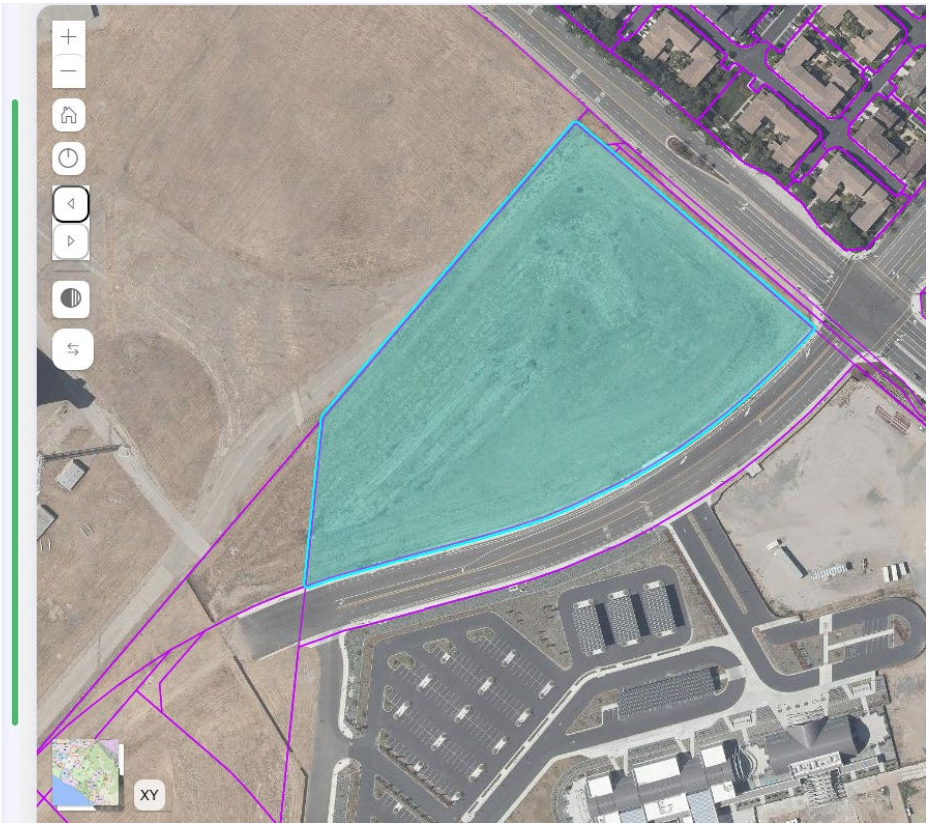
From: EH OC Wells
To: Alan Churchill; Alex Amort
Cc: trizzuti@tustin.k12.ca.us; EH OC Wells
Subject: RE: Permit Status - Tustin, Ca
Date: Monday, September 22, 2025 2:17:45 PM
Attachments: image001.png
image003.png
image002.png
image005.png
image004.png
25-09-30 Temp. Nested SVP Construction Permit.pdf

Good afternoon,

Included with this message is a PDF attachment of the approved temporary nested soil vapor probe (SVP) construction permit application for the sites located within the field west of Valencia Ave. and Legacy Rd. in Tustin. Please note the HCA's well permitting section issues well and exploratory boring permits per discrete APN or site address. This permit is valid for APN 430-391-76 and does not cover the area where SV-4/GW-4 is proposed to be drilled (APN 430-381-90). This SVP will need to be permitted separately, moved to the permitted APN area, or omitted from the work plan (see APN map below):

APN	430-391-76
Map No.	MD
Doc No.	201700456342
Lot Type	Lot
Lot No.	A
Legal Description	TR 17026 LOT 35 POR OF AND TR 17404 POR OF LOTS IIIII & JJJJJ
Doc. Ref. Date	
Doc. Ref. No.	201700456342
Landuse	601
Owner Names	TUSTIN UNIFIED SCHOOL DISTRICT
Mail Address	300 S C TUSTIN 92780-3695
Site Address	
City/State	
Zipcode	
Land Value	7323053
Improved Value	
Assessed Amount	
Legal Start Date	10/26/2017
Zone Class	
Zoning Detail	
Zoning Desc.	

Area: 334,881.96 sqft





https://webapps.ocgis.com/oclandinsights/map-viewer?id=2

Approval of the permit application is contingent on the following requirements:

- All notifications and document submittals shall be via e-mail. Use the permit number on the subject line and on the documents for reference.
- Notify this Agency at least 2 business days prior to start.
- Notify this Agency of any changes to the work plan at least 2 business days prior to start to review and approve the changes.
- **Install the nested SVPs in a manner that will allow for their proper destruction via overdrilling to total depth and backfilling the remaining borings with an approved sealing material from bottom to within 5 feet b.g.s.**
  - **All nested SVPs shall be removed/destroyed within 2 weeks of completion.**
- Notify this Agency when all work is completed and include the depth to first encountered groundwater.
- Submit copies of the boring logs within 30 days of completion of work.
- This permit will expire on 09-23-2026 at 11:59 p.m. No extensions shall be granted.
- Failure to adhere to the permitting requirements is a violation of the California Well Standards and the Well Ordinance, and constitutes a misdemeanor.
  - Violations may affect future well permitting with this Agency until they are either corrected or mitigated.
  - Violations may also be referred to the WSAB, the BPELSG, and/or the CSLB for further disciplinary actions.

If you have comments or questions regarding the permit, you may reply to this e-mail.

Thank you,

Juan Anzora, REHS
Environmental Health Specialist
Environmental Health Division
Orange County Health Care Agency
Water Quality Program – Well Permitting Section

Office: (714) 433-6287 **Cell:** (714) 559-0103
1241 E. Dyer Road Santa Ana, CA 92705
www.ochealthinfo.com

From: Alan Churchill <achurchill@PadreInc.com>
Sent: Monday, September 22, 2025 9:57 AM
To: EH OC Wells <EHOCWells@ochca.com>
Subject: Permit Status - Tustin, Ca

Attention: This email originated from outside the County of Orange. Use caution when opening attachments or links.

Good morning,

I am checking the status of a permit application for the drilling of 6 temporary vapor wells and 6 temporary groundwater wells in Tustin, Ca.

The Site is located at the west intersection of Valencia Avenue and Legacy Road in Tustin, Ca. The work is being performed for the Tustin Unified School District.

Thank you.

Alan Churchill, P.G.
Padre Associates
350 University Ave., Suite 250
Sacramento, Ca 95825
916-333-5920, ext. 250
916-952-5421 (cell)

APPENDIX C

DRILL HOLE LOGS

padre

DRILL HOLE NUMBER GW-1

CLIENT: PlaceWorks **PERMIT #:** 25-09-30 **PROJECT NAME:** Tustin USD - Proposed District Offices

PROJECT NUMBER: 2501-0092 **PROJECT LOCATION:** Tustin, Orange County

DATE STARTED: 09-26-2025 **COMPLETED:** 09-26-2025 **POSITION:** N: 2206212.70 ft E: 6084107.77 ft (NAD83 SP Ca Zn 6 ft)

DRILLING CONTRACTOR: Cascade Drilling Inc. **GROUND ELEVATION:** 58.54 ft MSL **TOTAL DEPTH:** 30.0 ft

DRILLING METHOD: Direct Push **GROUNDWATER DEPTH**

EQUIPMENT: Geoprobe 7822DT ▽ **INTIAL:** 27.5 ft

HOLE DIAMETER (inches): 2.25 ▼ **STATIC:** Not Encountered

LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G. **BACKFILL:** Neat Cement

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): light olive brown (2.5Y 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<0.5in. diameter).	
5	54			Clayey SAND (SC): medium dense; olive gray (5Y 5/2); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; mottled with olive brown (2.5Y 4/4).	0.0
				Lean CLAY with sand (CL): moderately stiff; olive brown (2.5Y 4/3); slightly moist; no hydrocarbon stain; no hydrocarbon odor; mottled with dark brown (2.5Y 4/3).	
				trace rootlets, increase in silt	
10	49				0.0
				dark brown (10YR 3/3); decrease in silt	
				soft; brown (10YR 4/3)	
				Poorly graded SAND with silt (SP-SM): medium dense; dark yellowish brown (10YR 4/4); moist; very fine grained; no hydrocarbon stain; no hydrocarbon odor.	
15	44			Lean CLAY (CL): soft; very dark grayish brown (10YR 3/2); slightly moist; no hydrocarbon stain; no hydrocarbon odor.	0.0
				Sandy Lean CLAY (CL): moderately stiff; dark yellowish brown (10YR 4/4); slightly moist; no hydrocarbon stain; no hydrocarbon odor; trace oxidation staining, mottled with gray (10YR 5/1), trace silt.	
				increase in fine grained sand, trace subangular gravel (<0.25in diameter)	
20	39			Lean CLAY (CL): soft; brown (10YR 4/3); moist; no hydrocarbon stain; no hydrocarbon odor.	0.0
				moderately stiff	
				Sandy SILT (ML): moderately stiff; dark yellowish brown (10YR 4/4); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; oxidation staining.	
25	34			Sandy Lean CLAY (CL): stiff; brown (10YR 4/3); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace white deposits, trace silts.	0.0
				soft; moist; increase in sand	
				Sandy Lean CLAY with gravel (CL): stiff; light brownish gray (2.5Y 6/2); slightly moist; no hydrocarbon stain; no hydrocarbon odor; trace white deposits, subangular gravel (<0.25in. diameter).	
30	29			Total Depth = 30.0 ft.	0.0

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

padre

DRILL HOLE NUMBER GW-2

CLIENT: PlaceWorks **PERMIT #:** 25-09-30 **PROJECT NAME:** Tustin USD - Proposed District Offices

PROJECT NUMBER: 2501-0092 **PROJECT LOCATION:** Tustin, Orange County

DATE STARTED: 09-25-2025 **COMPLETED:** 09-25-2025 **POSITION:** N: 2206035.86 ft E: 6083939.83 ft (NAD83 SP Ca Zn 6 ft)

DRILLING CONTRACTOR: Cascade Drilling Inc. **GROUND ELEVATION:** 51.68 ft MSL **TOTAL DEPTH:** 25.0 ft

DRILLING METHOD: Direct Push **GROUNDWATER DEPTH**

EQUIPMENT: Geoprobe 7822DT ▽ **INTIAL:** 10.95 ft

HOLE DIAMETER (inches): 2.25 ▼ **STATIC:** Not Encountered

LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G. **BACKFILL:** Neat Cement

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Poorly graded SAND with silt (SP-SM): medium dense; grayish brown (10YR 5/2); dry; medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<2in. diameter).	
				Sandy Lean CLAY (CL): moderately stiff; dark grayish brown (10YR 4/2); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace silt. trace white deposits	
5	47				0.0
				Lean CLAY with sand (CL): moderately stiff; olive brown (2.5Y 4/3); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor. trace white deposits, increase in silt	
10	42		▽		0.0
				Lean CLAY (CL): moderately stiff; brown (10YR 5/3); slightly moist; no hydrocarbon stain; no hydrocarbon odor; mottled with very dark brown (10YR 2/2), trace silt, trace oxidation staining.	
15	37				0.0
				soft; moist Clayey SAND (SC): medium dense; brown (10YR 4/3); wet; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace subrounded gravel (<0.5in. diameter).	
20	32			Sandy Lean CLAY (CL): stiff; brown (10YR 4/3); moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace white deposits, trace subangular gravel (<0.5in. diameter). soft; decrease in sand	0.0
				Silty SAND (SM): medium dense; brown (10YR 5/3); wet; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor.	
				Sandy Lean CLAY (CL): stiff; light olive brown (2.5Y 5/3); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace white deposits, trace subrounded gravel (<0.5in. diameter).	
25	27			Total Depth = 25.0 ft.	0.0
30	22				

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

padre

DRILL HOLE NUMBER GW-3

CLIENT: PlaceWorks **PERMIT #:** 25-09-30 **PROJECT NAME:** Tustin USD - Proposed District Offices

PROJECT NUMBER: 2501-0092 **PROJECT LOCATION:** Tustin, Orange County

DATE STARTED: 09-25-2025 **COMPLETED:** 09-25-2025 **POSITION:** N: 2205796.44 ft E: 6083727.79 ft (NAD83 SP Ca Zn 6 ft)

DRILLING CONTRACTOR: Cascade Drilling Inc. **GROUND ELEVATION:** 53.91 ft MSL **TOTAL DEPTH:** 25.0 ft

DRILLING METHOD: Direct Push **GROUNDWATER DEPTH**

EQUIPMENT: Geoprobe 7822DT ▽ **INTIAL:** 16.91 ft

HOLE DIAMETER (inches): 2.25 ▼ **STATIC:** Not Encountered

LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G. **BACKFILL:** Neat Cement

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): medium dense; brown (10YR 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<0.5in. diameter).	
				slightly moist; trace clay	
				Sandy Lean CLAY (CL): stiff; brown (10YR 4/3); dry; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace silt, trace subangular gravel (<0.5in. diameter).	
5	49				0.0
				Lean CLAY (CL): moderately stiff; very dark grayish brown (10YR 3/2); slightly moist; no hydrocarbon stain; no hydrocarbon odor; trace silt.	
				very dark grayish brown (10YR 3/2); trace organics	
10	44			dark brown (10YR 3/3); no hydrocarbon stain; no hydrocarbon odor; trace oxidation staining	0.0
				black (10YR 2/1); trace organics, organic odor	
				Lean CLAY (CL): soft to moderately stiff; very dark gray (10YR 3/1); slightly moist; no hydrocarbon stain; no hydrocarbon odor.	
				trace silt	
15	39			brown (10YR 4/3) ▽	0.0
				Clayey SAND (SC): medium dense; brown (10YR 4/3); moist; fine grained; no hydrocarbon stain; no hydrocarbon odor.	
20	34				0.0
				Silty Lean CLAY (CL): soft; light olive brown (2.5Y 5/4); moist; no hydrocarbon stain; no hydrocarbon odor.	
				SILT with sand (ML): soft to moderately stiff; light olive brown (2.5Y 5/4); wet; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace clay.	
				very dark grayish brown (10YR 3/2); no hydrocarbon stain; no hydrocarbon odor; increase in clay	
				Sandy Lean CLAY (CL): moderately stiff; grayish brown (2.5Y 5/2); moist; fine grained; no hydrocarbon stain; no hydrocarbon odor.	
25	29				0.0
				Total Depth = 25.0 ft.	
30	24				

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

padre

DRILL HOLE NUMBER GW-4

CLIENT: PlaceWorks **PERMIT #:** 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-25-2025 **COMPLETED:** 09-25-2025
POSITION: N: 2205829.92 ft E: 6083912.49 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 53.24 ft MSL **TOTAL DEPTH:** 25.0 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
▽ **INTIAL:** 20.69 ft
HOLE DIAMETER (inches): 2.25
▼ **STATIC:** Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G.
BACKFILL: Neat Cement

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): medium dense; light olive brown (2.5Y 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<1in. diameter).	
				increase in silt and clay	
	49			Sandy Lean CLAY (CL): moderately stiff; brown (10YR 4/3); dry; fine grained; no hydrocarbon stain; no hydrocarbon odor; mottled with very dark grayish brown (10YR 4/2).	
5					0.0
				very dark brown (10YR 2/2); slightly moist; trace caliche, decrease in sand	
				trace fractured subrounded gravel (<1in. diameter)	
	44			Clayey SAND (SC): medium dense; brown (7.5YR 4/2); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; mottled with olive (5Y 4/4).	
10					0.0
				increase in clay	
				Sandy Lean CLAY (CL): moderately stiff; very dark grayish brown (10YR 3/2); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor.	
				trace organics, mottled with black (10YR 2/1)	
	39				
15					0.0
				Lean CLAY with sand (CL): moderately stiff; very dark grayish brown (10YR 3/2); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; mottled with gray (10YR 5/1).	
				Silty Lean CLAY (CL): soft to moderately stiff; brown (10YR 5/3); slightly moist; no hydrocarbon stain; no hydrocarbon odor; trace oxidation staining.	
	34				
20			▽		0.0
				soft; very dark grayish brown (10YR 3/2); moist	
	29			Poorly graded SAND with silt (SP-SM): medium dense; light olive brown (2.5Y 5/3); wet; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<0.25in. diameter).	
25				increase in silt	0.0
				Total Depth = 25.0 ft.	
	24				
30					

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

padre

DRILL HOLE NUMBER GW-5

CLIENT: PlaceWorks **PERMIT #:** 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-26-2025 **COMPLETED:** 09-26-2025
POSITION: N: 2206059.97 ft E: 6084120.39 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 56.14 ft MSL **TOTAL DEPTH:** 25.0 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
▽ **INTIAL:** 19.34 ft
HOLE DIAMETER (inches): 2.25
▼ **STATIC:** Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G.
BACKFILL: Neat Cement

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): medium dense; light olive brown (2.5Y 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace rootlets (<0.01in. diameter), trace subangular gravel (<0.5in. diameter).	
	52			Clayey SILT (ML): moderately stiff; dark grayish brown (2.5Y 4/2); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<1in. diameter), trace white deposits, trace sand.	
5				increase in clay	0.5
				Sandy Lean CLAY (CL): moderately stiff; brown (10YR 4/3); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor.	
	47			very dark brown (10YR 2/2); trace organics, trace organic odor	
				olive brown (2.5Y 4/4); decrease in sand	
10				very dark brown (10YR 2/2); increase in sand	1.3
				Lean CLAY (CL): moderately stiff; very dark brown (10YR 2/2); slightly moist; no hydrocarbon stain; no hydrocarbon odor.	
	42			olive brown (2.5Y 4/3); increase in silt, trace oxidation staining	
15				soft; moist	0.3
				SILT (ML): soft; olive brown (2.5Y 4/3); moist; no hydrocarbon stain; no hydrocarbon odor; trace clay.	
	37		▽		
20				Silty SAND (SM): medium dense; olive brown (2.5Y 4/3); wet; very fine grained; no hydrocarbon stain; no hydrocarbon odor; mottled with dark grayish brown (2.5Y 4/3).	0.0
				Sandy SILT (ML): soft; olive brown (2.5Y 4/3); very moist; very fine grained; no hydrocarbon stain; no hydrocarbon odor.	
				Lean CLAY with sand (CL): soft; dark gray (10YR 4/1); moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; slight organic odor.	
	32				
25				Total Depth = 25.0 ft.	0.5
	27				
30					

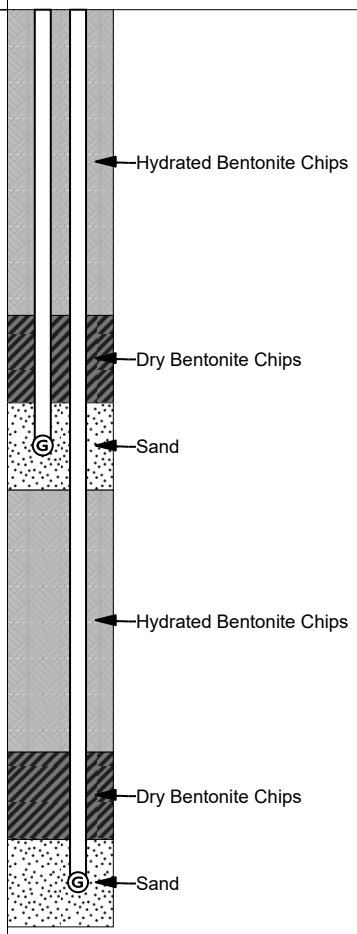
The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

DRILL HOLE / SOIL VAPOR WELL NUMBER SV-1

padre

CLIENT: PlaceWorks **PERMIT #:** 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-26-2025 **COMPLETED:** 09-26-2025
POSITION: N: 2206212.70 ft E: 6084107.77 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 58.54 ft MSL **TOTAL DEPTH:** 10.5 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
INTIAL: Not Encountered
HOLE DIAMETER (inches): 2.25
STATIC: Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G.
BACKFILL:

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): light olive brown (2.5Y 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<0.5in. diameter).	
				Clayey SAND (SC): medium dense; olive gray (5Y 5/2); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; mottled with olive brown (2.5Y 4/4).	
5	54				0.0
				Lean CLAY with sand (CL): moderately stiff; olive brown (2.5Y 4/3); slightly moist; no hydrocarbon stain; no hydrocarbon odor; mottled with dark brown (2.5Y 4/3).	
				trace rootlets, increase in silt	
10	49				0.0
				Total Depth = 10.5 ft.	
	44				
15					



The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

DRILL HOLE / SOIL VAPOR WELL NUMBER SV-2

padre

CLIENT: PlaceWorks **PERMIT #:** 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-25-2025 **COMPLETED:** 09-25-2025
POSITION: N: 2206035.86 ft E: 6083939.83 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 51.68 ft MSL **TOTAL DEPTH:** 10.5 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
▽ **INTIAL:** Not Encountered
HOLE DIAMETER (inches): 2.25
▼ **STATIC:** Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G.
BACKFILL:

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)	Soil Vapor Probe Diagram
				Poorly graded SAND with silt (SP-SM): medium dense; grayish brown (10YR 5/2); dry; medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<2in. diameter).		Hydrated Bentonite Chips
				Sandy Lean CLAY (CL): moderately stiff; dark grayish brown (10YR 4/2); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace silt. trace white deposits		Dry Bentonite Chips
5	47				0.0	Sand
				Lean CLAY with sand (CL): moderately stiff; olive brown (2.5Y 4/3); slightly moist; fine grained; no hydrocarbon stain; no hydrocarbon odor.		Hydrated Bentonite Chips
				trace white deposits, increase in silt		Dry Bentonite Chips
10	42				0.0	Sand
				Total Depth = 10.5 ft.		
15	37					

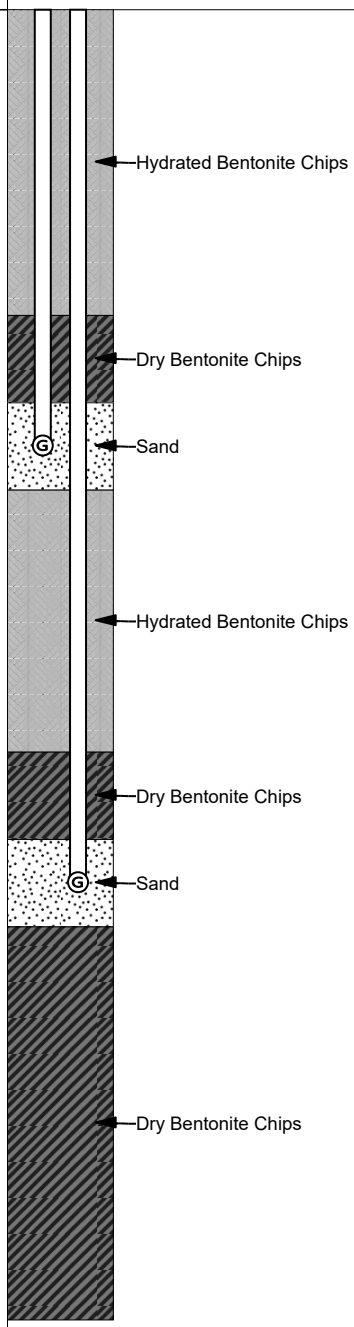
The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

DRILL HOLE / SOIL VAPOR WELL NUMBER SV-3

padre

CLIENT: PlaceWorks **PERMIT #:** 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-25-2025 **COMPLETED:** 09-25-2025
POSITION: N: 2205796.44 ft E: 6083727.79 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 53.91 ft MSL **TOTAL DEPTH:** 15.0 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
INTIAL: Not Encountered
HOLE DIAMETER (inches): 2.25
STATIC: Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G.
BACKFILL:

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): medium dense; brown (10YR 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<0.5in. diameter).	
				slightly moist; trace clay	
				Sandy Lean CLAY (CL): stiff; brown (10YR 4/3); dry; fine grained; no hydrocarbon stain; no hydrocarbon odor; trace silt, trace subangular gravel (<0.5in. diameter).	
5	49				0.0
				Lean CLAY (CL): moderately stiff; very dark grayish brown (10YR 3/2); slightly moist; no hydrocarbon stain; no hydrocarbon odor; trace silt.	
				very dark grayish brown (10YR 3/2); trace organics	
10	44			dark brown (10YR 3/3); no hydrocarbon stain; no hydrocarbon odor; trace oxidation staining	0.0
				black (10YR 2/1); trace organics, organic odor	
				Lean CLAY (CL): soft to moderately stiff; very dark gray (10YR 3/1); slightly moist; no hydrocarbon stain; no hydrocarbon odor.	
				trace silt	
15	39			Total Depth = 15.0 ft.	0.0



Soil Vapor Probe Diagram

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

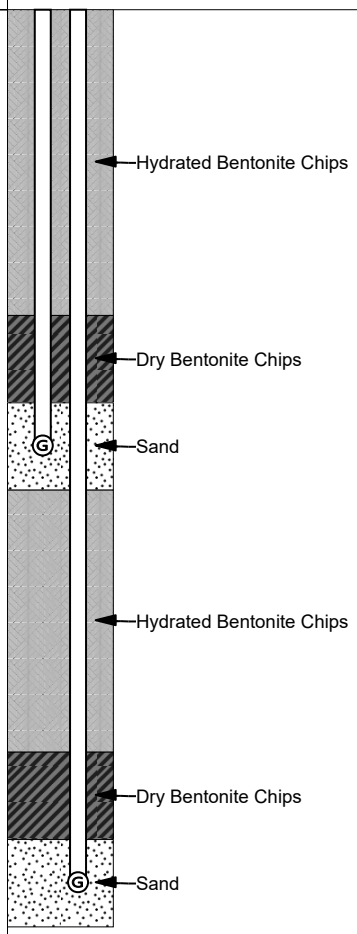
DRILL HOLE / SOIL VAPOR WELL NUMBER SV-4

padre

CLIENT: PlaceWorks
PERMIT #: 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-25-2025
COMPLETED: 09-25-2025
POSITION: N: 2205829.92 ft E: 6083912.49 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 53.25 ft MSL
TOTAL DEPTH: 10.5 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
INTIAL: Not Encountered
HOLE DIAMETER (inches): 2.25
STATIC: Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T.
CHECKED BY: A. Churchill, P.G.
BACKFILL:

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
0	53			Silty SAND (SM): medium dense; light olive brown (2.5Y 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<1in. diameter).	
				increase in silt and clay	
	49			Sandy Lean CLAY (CL): moderately stiff; brown (10YR 4/3); dry; fine grained; no hydrocarbon stain; no hydrocarbon odor; mottled with very dark grayish brown (10YR 4/2).	
5					0.0
				very dark brown (10YR 2/2); slightly moist; trace caliche, decrease in sand	
				trace fractured subrounded gravel (<1in. diameter)	
	44			Clayey SAND (SC): medium dense; brown (7.5YR 4/2); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; mottled with olive (5Y 4/4).	
10				increase in clay	0.0
				Total Depth = 10.5 ft.	
	39				
15					

Soil Vapor Probe Diagram



The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

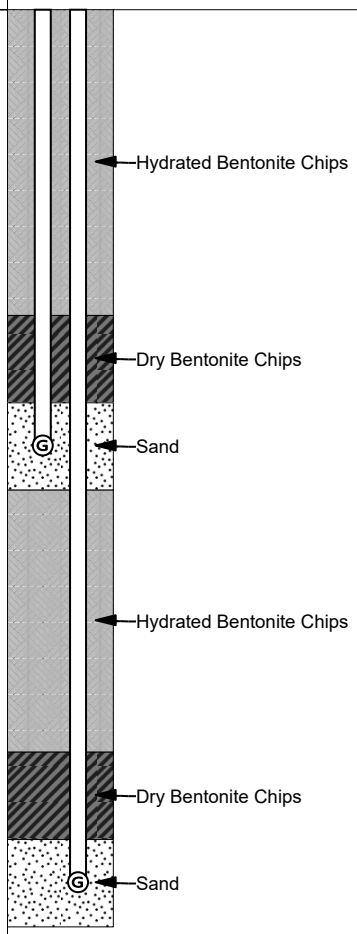
DRILL HOLE / SOIL VAPOR WELL NUMBER SV-5

padre

CLIENT: PlaceWorks **PERMIT #:** 25-09-30
PROJECT NAME: Tustin USD - Proposed District Offices
PROJECT NUMBER: 2501-0092
PROJECT LOCATION: Tustin, Orange County
DATE STARTED: 09-26-2025 **COMPLETED:** 09-26-2025
POSITION: N: 2206059.97 ft E: 6084120.39 ft (NAD83 SP Ca Zn 6 ft)
DRILLING CONTRACTOR: Cascade Drilling Inc.
GROUND ELEVATION: 56.14 ft MSL **TOTAL DEPTH:** 10.5 ft
DRILLING METHOD: Direct Push
GROUNDWATER DEPTH
EQUIPMENT: Geoprobe 7822DT
INTIAL: Not Encountered
HOLE DIAMETER (inches): 2.25
STATIC: Not Encountered
LOGGED BY: Lauren Alamillo, G.I.T. **CHECKED BY:** A. Churchill, P.G.
BACKFILL:

DEPTH (ft)	ELEVATION (ft MSL)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	GAS MONITOR MiniRAE 3000 (ppm)
				Silty SAND (SM): medium dense; light olive brown (2.5Y 5/3); dry; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace rootlets (<0.01in. diameter), trace subangular gravel (<0.5in. diameter).	
	52			Clayey SILT (ML): moderately stiff; dark grayish brown (2.5Y 4/2); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor; trace subangular gravel (<1in. diameter), trace white deposits, trace sand.	
5				increase in clay	0.5
				Sandy Lean CLAY (CL): moderately stiff; brown (10YR 4/3); slightly moist; fine to medium grained; no hydrocarbon stain; no hydrocarbon odor.	
				very dark brown (10YR 2/2); trace organics, trace organic odor	
	47			olive brown (2.5Y 4/4); decrease in sand	
10				very dark brown (10YR 2/2); increase in sand	1.3
				Total Depth = 10.5 ft.	
	42				
15					

Soil Vapor Probe Diagram



The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS)

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

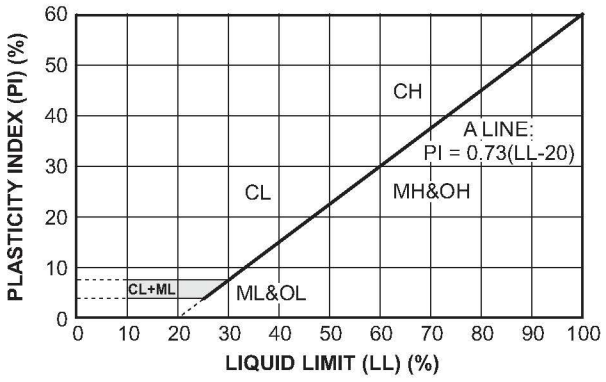
LABORATORY CLASSIFICATION CRITERIA

GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
GP	Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
GC	Atterberg limits above "A" line with P.I. greater than 7	
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
SP	Not meeting all gradation requirements for GW	
SM	Atterberg limits below "A" line or P.I. less than 4	Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
SC	Atterberg limits above "A" line with P.I. greater than 7	

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 percent ..... GW, GP, SW, SP
More than 12 percent ..... GM, GC, SM, SC
5 to 12 percent ..... Borderline cases requiring dual symbols

PLASTICITY CHART



APPENDIX D

LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Alan Churchill
Padre Associates, Inc.
350 University Ave Suite 250
Sacramento, California 95827

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JOB DESCRIPTION

Tustin USD/2501-0092

JOB NUMBER

570-248019-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

S14

my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Rossina Tomova, Project Manager I
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(657)210-6367

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Definitions/Glossary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exdeedance (ME) control limit range (± 4 SD from the mean).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-248019-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/26/2025 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.0°C.

Air - GC/MS VOA
Method TO15_PF: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-634493 recovered outside control limits for the following analytes: Benzyl chloride and chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method TO15_PF: The continuing calibration verification (CCV) associated with batch 570-634493 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 570-634493/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-3-10 — Lab Sample ID: 570-248019-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	17		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	79		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	19		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	1.1	J	3.1	1.0	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.2		2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	3.0		2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	7.9	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	4.3	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Toluene	31		1.9	0.80	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.3	J	5.6	1.3	ug/m3	1		TO-15	Total/NA
Vinyl chloride	0.99	J	1.3	0.67	ug/m3	1		TO-15	Total/NA
Carbon disulfide - DL	580		34	4.8	ug/m3	5.46875		TO-15	Total/NA
Chloromethane - DL	4.0	J	5.6	3.4	ug/m3	5.46875		TO-15	Total/NA

Client Sample ID: SV-3-5 — Lab Sample ID: 570-248019-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.1	J	7.4	2.1	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	11		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	46		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	17		1.6	0.63	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.7		2.2	0.90	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	8.4	J	12	7.8	ug/m3	1		TO-15	Total/NA
o-Xylene	3.6		2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	10		8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	4.5	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.8	J	3.4	1.5	ug/m3	1		TO-15	Total/NA
Toluene	33		1.9	0.80	ug/m3	1		TO-15	Total/NA
Carbon disulfide - RA	7.6		6.2	0.88	ug/m3	1		TO-15	Total/NA

Client Sample ID: Dupe — Lab Sample ID: 570-248019-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	12		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	48		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	24		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	33		6.2	0.88	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.9		2.2	0.90	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	9.5	J	12	7.8	ug/m3	1		TO-15	Total/NA
o-Xylene	3.9		2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	10		8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	4.2	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Toluene	31		1.9	0.80	ug/m3	1		TO-15	Total/NA
Vinyl acetate	5.3	J	7.0	2.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-4-10 — Lab Sample ID: 570-248019-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	12		4.4	1.8	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample ID: SV-4-10 (Continued)

Lab Sample ID: 570-248019-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	58		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	21		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.7	J	6.2	0.88	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	7.9	J	12	7.8	ug/m3	1		TO-15	Total/NA
Toluene	1.7	J	1.9	0.80	ug/m3	1		TO-15	Total/NA
Vinyl acetate	5.9	J	7.0	2.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-4-5

Lab Sample ID: 570-248019-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	13		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	37		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	14		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	21		6.2	0.88	ug/m3	1		TO-15	Total/NA
Chloroethane	0.80	J	1.3	0.77	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.9	J	2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	1.9	J	2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	4.6	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	5.5	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.8	J	3.4	1.5	ug/m3	1		TO-15	Total/NA
Toluene	13		1.9	0.80	ug/m3	1		TO-15	Total/NA
Chloromethane - RA	1.1		1.0	0.62	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-2-10

Lab Sample ID: 570-248019-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	33		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	96		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	15		1.6	0.63	ug/m3	1		TO-15	Total/NA
Bromomethane	1.3	J	1.9	0.96	ug/m3	1		TO-15	Total/NA
Carbon disulfide	250		6.2	0.88	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.6		2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	3.4		2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.6	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	4.8	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.1	J	3.4	1.5	ug/m3	1		TO-15	Total/NA
Toluene	17		1.9	0.80	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7	J	5.6	1.3	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-2-5

Lab Sample ID: 570-248019-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.8	J	7.4	2.1	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	25		4.4	1.8	ug/m3	1		TO-15	Total/NA
2-Hexanone	9.3		6.1	3.0	ug/m3	1		TO-15	Total/NA
Acetone	72		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	14		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	24		6.2	0.88	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3	J	2.5	1.5	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-2-5 (Continued) — Lab Sample ID: 570-248019-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4.4		2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	3.1		2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	8.0	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	5.2	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.3	J	3.4	1.5	ug/m3	1		TO-15	Total/NA
Toluene	24		1.9	0.80	ug/m3	1		TO-15	Total/NA
Vinyl acetate	14		7.0	2.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-5-10 — Lab Sample ID: 570-248019-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	34		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	110		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	20		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	27		6.2	0.88	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.3		2.2	0.90	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	8.2	J	12	7.8	ug/m3	1		TO-15	Total/NA
o-Xylene	1.7	J	2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.8	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	6.9		3.4	1.5	ug/m3	1		TO-15	Total/NA
Toluene	18		1.9	0.80	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-5-5 — Lab Sample ID: 570-248019-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	45		4.4	1.8	ug/m3	1		TO-15	Total/NA
2-Hexanone	3.0	J	6.1	3.0	ug/m3	1		TO-15	Total/NA
Acetone	140		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	12		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	11		6.2	0.88	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7	J	2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	1.7	J	2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.9	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	3.4	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Toluene	14		1.9	0.80	ug/m3	1		TO-15	Total/NA

Client Sample ID: SV-1-10 — Lab Sample ID: 570-248019-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	23		4.4	1.8	ug/m3	1		TO-15	Total/NA
Acetone	79		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	20		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	36		6.2	0.88	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	1.2	J	3.1	1.0	ug/m3	1		TO-15	Total/NA
Chloroform	3.8		2.4	1.1	ug/m3	1		TO-15	Total/NA
Chloromethane	0.87	J	1.0	0.62	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.8		2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	1.5	J	2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.2	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
Toluene	26		1.9	0.80	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-1-5

Lab Sample ID: 570-248019-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	55		4.4	1.8	ug/m3	1		TO-15	Total/NA
2-Hexanone	4.2	J	6.1	3.0	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.6	J	6.1	2.6	ug/m3	1		TO-15	Total/NA
Acetone	160		4.8	1.9	ug/m3	1		TO-15	Total/NA
Benzene	12		1.6	0.63	ug/m3	1		TO-15	Total/NA
Carbon disulfide	12		6.2	0.88	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0	J	2.5	1.5	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.7		2.2	0.90	ug/m3	1		TO-15	Total/NA
o-Xylene	1.7	J	2.2	0.89	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.9	J	8.7	2.4	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol (TBA)	4.0	J	6.1	1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.9		3.4	1.5	ug/m3	1		TO-15	Total/NA
Toluene	15		1.9	0.80	ug/m3	1		TO-15	Total/NA
Vinyl acetate	7.1		7.0	2.2	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-3-10

Date Collected: 09/26/25 08:39
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-1

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 17:47	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 17:47	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 17:47	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 17:47	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 17:47	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 17:47	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 17:47	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 17:47	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 17:47	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 17:47	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 17:47	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 17:47	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 17:47	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 17:47	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 17:47	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 17:47	1
2-Butanone (MEK)	**17**		4.4	1.8	ug/m3			10/02/25 17:47	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 17:47	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 17:47	1
Acetone	**79**		4.8	1.9	ug/m3			10/02/25 17:47	1
Benzene	**19**		1.6	0.63	ug/m3			10/02/25 17:47	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 17:47	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 17:47	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 17:47	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 17:47	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 17:47	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 17:47	1
Carbon tetrachloride	**1.1**	**J**	3.1	1.0	ug/m3			10/02/25 17:47	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 17:47	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 17:47	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 17:47	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 17:47	1
Dichlorodifluoromethane	**2.3**	**J**	2.5	1.5	ug/m3			10/02/25 17:47	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 17:47	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 17:47	1
Ethylbenzene	**3.2**		2.2	0.90	ug/m3			10/02/25 17:47	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 17:47	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 17:47	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/02/25 17:47	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 17:47	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 17:47	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 17:47	1
o-Xylene	**3.0**		2.2	0.89	ug/m3			10/02/25 17:47	1
m,p-Xylene	**7.9**	**J**	8.7	2.4	ug/m3			10/02/25 17:47	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 17:47	1
Styrene	ND		6.4	2.2	ug/m3			10/02/25 17:47	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-3-10
Date Collected: 09/26/25 08:39
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 17:47	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 17:47	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 17:47	1
tert-Butyl alcohol (TBA)	**4.3**	**J**	6.1	1.6	ug/m3			10/02/25 17:47	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 17:47	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/02/25 17:47	1
Toluene	**31**		1.9	0.80	ug/m3			10/02/25 17:47	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 17:47	1
Trichlorofluoromethane	**2.3**	**J**	5.6	1.3	ug/m3			10/02/25 17:47	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/02/25 17:47	1
Vinyl chloride	**0.99**	**J**	1.3	0.67	ug/m3			10/02/25 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 132*		*10/02/25 17:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/02/25 17:47*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/02/25 17:47*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**580**		34	4.8	ug/m3			10/03/25 18:44	5.46875
Chloromethane	**4.0**	**J**	5.6	3.4	ug/m3			10/03/25 18:44	5.46875

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*66 - 132*		*10/03/25 18:44*	*5.46875*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/25 18:44*	*5.46875*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/03/25 18:44*	*5.46875*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-3-5

Date Collected: 09/26/25 09:03
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-2

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 18:30	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 18:30	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 18:30	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 18:30	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 18:30	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 18:30	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 18:30	1
1,2,4-Trimethylbenzene	**2.1**	**J**	7.4	2.1	ug/m3			10/02/25 18:30	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 18:30	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 18:30	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 18:30	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 18:30	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 18:30	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 18:30	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 18:30	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 18:30	1
2-Butanone (MEK)	**11**		4.4	1.8	ug/m3			10/02/25 18:30	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 18:30	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 18:30	1
Acetone	**46**		4.8	1.9	ug/m3			10/02/25 18:30	1
Benzene	**17**		1.6	0.63	ug/m3			10/02/25 18:30	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 18:30	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 18:30	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 18:30	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 18:30	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 18:30	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 18:30	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 18:30	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 18:30	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 18:30	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 18:30	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 18:30	1
Dichlorodifluoromethane	**2.2**	**J**	2.5	1.5	ug/m3			10/02/25 18:30	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 18:30	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 18:30	1
Ethylbenzene	**3.7**		2.2	0.90	ug/m3			10/02/25 18:30	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 18:30	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 18:30	1
Isopropyl alcohol	**8.4**	**J**	12	7.8	ug/m3			10/02/25 18:30	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 18:30	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 18:30	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 18:30	1
o-Xylene	**3.6**		2.2	0.89	ug/m3			10/02/25 18:30	1
m,p-Xylene	**10**		8.7	2.4	ug/m3			10/02/25 18:30	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 18:30	1
Styrene	ND		6.4	2.2	ug/m3			10/02/25 18:30	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-3-5
Date Collected: 09/26/25 09:03
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 18:30	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 18:30	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 18:30	1
tert-Butyl alcohol (TBA)	**4.5**	**J**	6.1	1.6	ug/m3			10/02/25 18:30	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 18:30	1
Tetrachloroethene	**1.8**	**J**	3.4	1.5	ug/m3			10/02/25 18:30	1
Toluene	**33**		1.9	0.80	ug/m3			10/02/25 18:30	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 18:30	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 18:30	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/02/25 18:30	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*66 - 132*		*10/02/25 18:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/25 18:30*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/02/25 18:30*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**7.6**		6.2	0.88	ug/m3			10/03/25 19:25	1
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 132*		*10/03/25 19:25*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/03/25 19:25*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/03/25 19:25*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: Dupe

Lab Sample ID: 570-248019-3

Date Collected: 09/26/25 09:15
Matrix: Air
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 19:12	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 19:12	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 19:12	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 19:12	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 19:12	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 19:12	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 19:12	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 19:12	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 19:12	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 19:12	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 19:12	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 19:12	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 19:12	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 19:12	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 19:12	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 19:12	1
2-Butanone (MEK)	**12**		4.4	1.8	ug/m3			10/02/25 19:12	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 19:12	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 19:12	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 19:12	1
Acetone	**48**		4.8	1.9	ug/m3			10/02/25 19:12	1
Benzene	**24**		1.6	0.63	ug/m3			10/02/25 19:12	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 19:12	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 19:12	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 19:12	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 19:12	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 19:12	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 19:12	1
Carbon disulfide	**33**		6.2	0.88	ug/m3			10/02/25 19:12	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 19:12	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 19:12	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 19:12	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 19:12	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 19:12	1
Dichlorodifluoromethane	**2.2**	**J**	2.5	1.5	ug/m3			10/02/25 19:12	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 19:12	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 19:12	1
Ethylbenzene	**3.9**		2.2	0.90	ug/m3			10/02/25 19:12	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 19:12	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 19:12	1
Isopropyl alcohol	**9.5**	**J**	12	7.8	ug/m3			10/02/25 19:12	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 19:12	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 19:12	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 19:12	1
o-Xylene	**3.9**		2.2	0.89	ug/m3			10/02/25 19:12	1
m,p-Xylene	**10**		8.7	2.4	ug/m3			10/02/25 19:12	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 19:12	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: Dupe
Date Collected: 09/26/25 09:15
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		6.4	2.2	ug/m3			10/02/25 19:12	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 19:12	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 19:12	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 19:12	1
tert-Butyl alcohol (TBA)	**4.2**	**J**	6.1	1.6	ug/m3			10/02/25 19:12	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 19:12	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/02/25 19:12	1
Toluene	**31**		1.9	0.80	ug/m3			10/02/25 19:12	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 19:12	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 19:12	1
Vinyl acetate	**5.3**	**J**	7.0	2.2	ug/m3			10/02/25 19:12	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 132*		*10/02/25 19:12*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/25 19:12*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/02/25 19:12*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 132*		*10/03/25 20:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/03/25 20:06*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/03/25 20:06*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-4-10

Lab Sample ID: 570-248019-4

Date Collected: 09/26/25 09:47

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 19:55	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 19:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 19:55	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 19:55	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 19:55	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 19:55	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 19:55	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 19:55	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 19:55	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 19:55	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 19:55	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 19:55	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 19:55	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 19:55	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 19:55	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 19:55	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 19:55	1
2-Butanone (MEK)	**12**		4.4	1.8	ug/m3			10/02/25 19:55	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 19:55	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 19:55	1
Acetone	**58**		4.8	1.9	ug/m3			10/02/25 19:55	1
Benzene	**21**		1.6	0.63	ug/m3			10/02/25 19:55	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 19:55	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 19:55	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 19:55	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 19:55	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 19:55	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 19:55	1
Carbon disulfide	**1.7**	**J**	6.2	0.88	ug/m3			10/02/25 19:55	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 19:55	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 19:55	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 19:55	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 19:55	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 19:55	1
Dichlorodifluoromethane	**2.3**	**J**	2.5	1.5	ug/m3			10/02/25 19:55	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 19:55	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 19:55	1
Ethylbenzene	ND		2.2	0.90	ug/m3			10/02/25 19:55	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 19:55	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 19:55	1
Isopropyl alcohol	**7.9**	**J**	12	7.8	ug/m3			10/02/25 19:55	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 19:55	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 19:55	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 19:55	1
o-Xylene	ND		2.2	0.89	ug/m3			10/02/25 19:55	1
m,p-Xylene	ND		8.7	2.4	ug/m3			10/02/25 19:55	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 19:55	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-4-10
Date Collected: 09/26/25 09:47
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-4
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		6.4	2.2	ug/m3			10/02/25 19:55	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 19:55	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 19:55	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 19:55	1
tert-Butyl alcohol (TBA)	ND		6.1	1.6	ug/m3			10/02/25 19:55	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 19:55	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/02/25 19:55	1
Toluene	**1.7**	**J**	1.9	0.80	ug/m3			10/02/25 19:55	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 19:55	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 19:55	1
Vinyl acetate	**5.9**	**J**	7.0	2.2	ug/m3			10/02/25 19:55	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 132*		*10/02/25 19:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/25 19:55*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/02/25 19:55*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*66 - 132*		*10/03/25 20:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/25 20:48*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/03/25 20:48*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-4-5

Lab Sample ID: 570-248019-5

Date Collected: 09/26/25 10:05

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 20:45	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 20:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 20:45	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 20:45	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 20:45	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 20:45	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 20:45	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 20:45	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 20:45	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 20:45	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 20:45	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 20:45	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 20:45	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 20:45	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 20:45	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 20:45	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 20:45	1
2-Butanone (MEK)	**13**		4.4	1.8	ug/m3			10/02/25 20:45	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 20:45	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 20:45	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 20:45	1
Acetone	**37**		4.8	1.9	ug/m3			10/02/25 20:45	1
Benzene	**14**		1.6	0.63	ug/m3			10/02/25 20:45	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 20:45	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 20:45	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 20:45	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 20:45	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 20:45	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 20:45	1
Carbon disulfide	**21**		6.2	0.88	ug/m3			10/02/25 20:45	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 20:45	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 20:45	1
Chloroethane	**0.80**	**J**	1.3	0.77	ug/m3			10/02/25 20:45	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 20:45	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 20:45	1
Dichlorodifluoromethane	**2.1**	**J**	2.5	1.5	ug/m3			10/02/25 20:45	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 20:45	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 20:45	1
Ethylbenzene	**1.9**	**J**	2.2	0.90	ug/m3			10/02/25 20:45	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 20:45	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 20:45	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/02/25 20:45	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 20:45	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 20:45	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 20:45	1
o-Xylene	**1.9**	**J**	2.2	0.89	ug/m3			10/02/25 20:45	1
m,p-Xylene	**4.6**	**J**	8.7	2.4	ug/m3			10/02/25 20:45	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 20:45	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-4-5
Date Collected: 09/26/25 10:05
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-5
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		6.4	2.2	ug/m3			10/02/25 20:45	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 20:45	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 20:45	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 20:45	1
tert-Butyl alcohol (TBA)	**5.5**	**J**	6.1	1.6	ug/m3			10/02/25 20:45	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 20:45	1
Tetrachloroethene	**1.8**	**J**	3.4	1.5	ug/m3			10/02/25 20:45	1
Toluene	**13**		1.9	0.80	ug/m3			10/02/25 20:45	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 20:45	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 20:45	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/02/25 20:45	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 132*		*10/02/25 20:45*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/02/25 20:45*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/02/25 20:45*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**1.1**		1.0	0.62	ug/m3			10/03/25 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*66 - 132*		*10/03/25 21:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/25 21:41*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/03/25 21:41*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-2-10

Lab Sample ID: 570-248019-6

Date Collected: 09/26/25 10:29

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 21:31	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 21:31	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 21:31	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 21:31	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 21:31	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 21:31	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 21:31	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 21:31	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 21:31	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 21:31	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 21:31	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 21:31	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 21:31	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 21:31	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 21:31	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 21:31	1
2-Butanone (MEK)	**33**		4.4	1.8	ug/m3			10/02/25 21:31	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 21:31	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 21:31	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 21:31	1
Acetone	**96**		4.8	1.9	ug/m3			10/02/25 21:31	1
Benzene	**15**		1.6	0.63	ug/m3			10/02/25 21:31	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 21:31	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 21:31	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 21:31	1
Bromomethane	**1.3**	**J**	1.9	0.96	ug/m3			10/02/25 21:31	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 21:31	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 21:31	1
Carbon disulfide	**250**		6.2	0.88	ug/m3			10/02/25 21:31	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 21:31	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 21:31	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 21:31	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 21:31	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 21:31	1
Dichlorodifluoromethane	**2.3**	**J**	2.5	1.5	ug/m3			10/02/25 21:31	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 21:31	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 21:31	1
Ethylbenzene	**3.6**		2.2	0.90	ug/m3			10/02/25 21:31	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 21:31	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 21:31	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/02/25 21:31	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 21:31	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 21:31	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 21:31	1
o-Xylene	**3.4**		2.2	0.89	ug/m3			10/02/25 21:31	1
m,p-Xylene	**3.6**	**J**	8.7	2.4	ug/m3			10/02/25 21:31	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 21:31	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-2-10
Date Collected: 09/26/25 10:29
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-6
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		6.4	2.2	ug/m3			10/02/25 21:31	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 21:31	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 21:31	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 21:31	1
tert-Butyl alcohol (TBA)	**4.8**	**J**	6.1	1.6	ug/m3			10/02/25 21:31	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 21:31	1
Tetrachloroethene	**2.1**	**J**	3.4	1.5	ug/m3			10/02/25 21:31	1
Toluene	**17**		1.9	0.80	ug/m3			10/02/25 21:31	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 21:31	1
Trichlorofluoromethane	**1.7**	**J**	5.6	1.3	ug/m3			10/02/25 21:31	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/02/25 21:31	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 132*		*10/02/25 21:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/02/25 21:31*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/02/25 21:31*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*66 - 132*		*10/03/25 22:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/25 22:29*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/03/25 22:29*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-2-5

Lab Sample ID: 570-248019-7

Date Collected: 09/26/25 10:46

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 22:15	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 22:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 22:15	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 22:15	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 22:15	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 22:15	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 22:15	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 22:15	1
1,2,4-Trimethylbenzene	**2.8**	**J**	7.4	2.1	ug/m3			10/02/25 22:15	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 22:15	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 22:15	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 22:15	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 22:15	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 22:15	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 22:15	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 22:15	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 22:15	1
2-Butanone (MEK)	**25**		4.4	1.8	ug/m3			10/02/25 22:15	1
2-Hexanone	**9.3**		6.1	3.0	ug/m3			10/02/25 22:15	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 22:15	1
Acetone	**72**		4.8	1.9	ug/m3			10/02/25 22:15	1
Benzene	**14**		1.6	0.63	ug/m3			10/02/25 22:15	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 22:15	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 22:15	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 22:15	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 22:15	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 22:15	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 22:15	1
Carbon disulfide	**24**		6.2	0.88	ug/m3			10/02/25 22:15	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 22:15	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 22:15	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 22:15	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 22:15	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 22:15	1
Dichlorodifluoromethane	**2.3**	**J**	2.5	1.5	ug/m3			10/02/25 22:15	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 22:15	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 22:15	1
Ethylbenzene	**4.4**		2.2	0.90	ug/m3			10/02/25 22:15	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 22:15	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 22:15	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/02/25 22:15	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 22:15	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 22:15	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 22:15	1
o-Xylene	**3.1**		2.2	0.89	ug/m3			10/02/25 22:15	1
m,p-Xylene	**8.0**	**J**	8.7	2.4	ug/m3			10/02/25 22:15	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 22:15	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-2-5
Date Collected: 09/26/25 10:46
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-7
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		6.4	2.2	ug/m3			10/02/25 22:15	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 22:15	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 22:15	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 22:15	1
tert-Butyl alcohol (TBA)	**5.2**	**J**	6.1	1.6	ug/m3			10/02/25 22:15	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 22:15	1
Tetrachloroethene	**2.3**	**J**	3.4	1.5	ug/m3			10/02/25 22:15	1
Toluene	**24**		1.9	0.80	ug/m3			10/02/25 22:15	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 22:15	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 22:15	1
Vinyl acetate	**14**		7.0	2.2	ug/m3			10/02/25 22:15	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 132*		*10/02/25 22:15*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/25 22:15*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/02/25 22:15*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*66 - 132*		*10/03/25 23:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/25 23:12*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/03/25 23:12*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-5-10

Date Collected: 09/26/25 11:57
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-8

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/03/25 23:59	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/03/25 23:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/03/25 23:59	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/03/25 23:59	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/03/25 23:59	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/03/25 23:59	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/03/25 23:59	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/03/25 23:59	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/03/25 23:59	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/03/25 23:59	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/03/25 23:59	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/03/25 23:59	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/03/25 23:59	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/03/25 23:59	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/03/25 23:59	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/03/25 23:59	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/03/25 23:59	1
2-Butanone (MEK)	**34**		4.4	1.8	ug/m3			10/03/25 23:59	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/03/25 23:59	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/03/25 23:59	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/03/25 23:59	1
Acetone	**110**		4.8	1.9	ug/m3			10/03/25 23:59	1
Benzene	**20**		1.6	0.63	ug/m3			10/03/25 23:59	1
Benzyl chloride	ND		7.8	3.8	ug/m3			10/03/25 23:59	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/03/25 23:59	1
Bromoform	ND		5.2	1.8	ug/m3			10/03/25 23:59	1
Bromomethane	ND		1.9	0.96	ug/m3			10/03/25 23:59	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/03/25 23:59	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/03/25 23:59	1
Carbon disulfide	**27**		6.2	0.88	ug/m3			10/03/25 23:59	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/03/25 23:59	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/03/25 23:59	1
Chloroethane	ND		1.3	0.77	ug/m3			10/03/25 23:59	1
Chloroform	ND		2.4	1.1	ug/m3			10/03/25 23:59	1
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 23:59	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/03/25 23:59	1
Dichlorodifluoromethane	ND		2.5	1.5	ug/m3			10/03/25 23:59	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/03/25 23:59	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/03/25 23:59	1
Ethylbenzene	**2.3**		2.2	0.90	ug/m3			10/03/25 23:59	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/03/25 23:59	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/03/25 23:59	1
Isopropyl alcohol	**8.2**	**J**	12	7.8	ug/m3			10/03/25 23:59	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/03/25 23:59	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/03/25 23:59	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/03/25 23:59	1
o-Xylene	**1.7**	**J**	2.2	0.89	ug/m3			10/03/25 23:59	1
m,p-Xylene	**3.8**	**J**	8.7	2.4	ug/m3			10/03/25 23:59	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-5-10
Date Collected: 09/26/25 11:57
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-8
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/03/25 23:59	1
Styrene	ND		6.4	2.2	ug/m3			10/03/25 23:59	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/03/25 23:59	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/03/25 23:59	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/03/25 23:59	1
tert-Butyl alcohol (TBA)	ND		6.1	1.6	ug/m3			10/03/25 23:59	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/03/25 23:59	1
Tetrachloroethene	**6.9**		3.4	1.5	ug/m3			10/03/25 23:59	1
Toluene	**18**		1.9	0.80	ug/m3			10/03/25 23:59	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/03/25 23:59	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/03/25 23:59	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/03/25 23:59	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/03/25 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 132*		*10/03/25 23:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/25 23:59*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/03/25 23:59*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-5-5

Lab Sample ID: 570-248019-9

Date Collected: 09/26/25 12:12

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 23:49	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 23:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 23:49	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 23:49	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 23:49	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 23:49	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 23:49	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 23:49	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 23:49	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 23:49	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 23:49	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 23:49	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 23:49	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 23:49	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 23:49	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 23:49	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 23:49	1
2-Butanone (MEK)	**45**		4.4	1.8	ug/m3			10/02/25 23:49	1
2-Hexanone	**3.0**	**J**	6.1	3.0	ug/m3			10/02/25 23:49	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 23:49	1
Acetone	**140**		4.8	1.9	ug/m3			10/02/25 23:49	1
Benzene	**12**		1.6	0.63	ug/m3			10/02/25 23:49	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/02/25 23:49	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 23:49	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 23:49	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 23:49	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 23:49	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 23:49	1
Carbon disulfide	**11**		6.2	0.88	ug/m3			10/02/25 23:49	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 23:49	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 23:49	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 23:49	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 23:49	1
Chloromethane	ND	*+	1.0	0.62	ug/m3			10/02/25 23:49	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 23:49	1
Dichlorodifluoromethane	**2.2**	**J**	2.5	1.5	ug/m3			10/02/25 23:49	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 23:49	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 23:49	1
Ethylbenzene	**1.7**	**J**	2.2	0.90	ug/m3			10/02/25 23:49	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 23:49	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 23:49	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/02/25 23:49	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 23:49	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 23:49	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 23:49	1
o-Xylene	**1.7**	**J**	2.2	0.89	ug/m3			10/02/25 23:49	1
m,p-Xylene	**3.9**	**J**	8.7	2.4	ug/m3			10/02/25 23:49	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-5-5
Date Collected: 09/26/25 12:12
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-9
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 23:49	1
Styrene	ND		6.4	2.2	ug/m3			10/02/25 23:49	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 23:49	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 23:49	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 23:49	1
tert-Butyl alcohol (TBA)	**3.4**	**J**	6.1	1.6	ug/m3			10/02/25 23:49	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 23:49	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/02/25 23:49	1
Toluene	**14**		1.9	0.80	ug/m3			10/02/25 23:49	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 23:49	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 23:49	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/02/25 23:49	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 132*		*10/02/25 23:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/25 23:49*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/02/25 23:49*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-1-10

Lab Sample ID: 570-248019-10

Date Collected: 09/26/25 13:06

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/04/25 00:39	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/04/25 00:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/04/25 00:39	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/04/25 00:39	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/04/25 00:39	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/04/25 00:39	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/04/25 00:39	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/04/25 00:39	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/04/25 00:39	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/04/25 00:39	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/04/25 00:39	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/04/25 00:39	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/04/25 00:39	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/04/25 00:39	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/04/25 00:39	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/04/25 00:39	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/04/25 00:39	1
2-Butanone (MEK)	**23**		4.4	1.8	ug/m3			10/04/25 00:39	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/04/25 00:39	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/04/25 00:39	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/04/25 00:39	1
Acetone	**79**		4.8	1.9	ug/m3			10/04/25 00:39	1
Benzene	**20**		1.6	0.63	ug/m3			10/04/25 00:39	1
Benzyl chloride	ND		7.8	3.8	ug/m3			10/04/25 00:39	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/04/25 00:39	1
Bromoform	ND		5.2	1.8	ug/m3			10/04/25 00:39	1
Bromomethane	ND		1.9	0.96	ug/m3			10/04/25 00:39	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/04/25 00:39	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/04/25 00:39	1
Carbon disulfide	**36**		6.2	0.88	ug/m3			10/04/25 00:39	1
Carbon tetrachloride	**1.2**	**J**	3.1	1.0	ug/m3			10/04/25 00:39	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/04/25 00:39	1
Chloroethane	ND		1.3	0.77	ug/m3			10/04/25 00:39	1
Chloroform	**3.8**		2.4	1.1	ug/m3			10/04/25 00:39	1
Chloromethane	**0.87**	**J**	1.0	0.62	ug/m3			10/04/25 00:39	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/04/25 00:39	1
Dichlorodifluoromethane	ND		2.5	1.5	ug/m3			10/04/25 00:39	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/04/25 00:39	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/04/25 00:39	1
Ethylbenzene	**2.8**		2.2	0.90	ug/m3			10/04/25 00:39	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/04/25 00:39	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/04/25 00:39	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/04/25 00:39	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/04/25 00:39	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/04/25 00:39	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/04/25 00:39	1
o-Xylene	**1.5**	**J**	2.2	0.89	ug/m3			10/04/25 00:39	1
m,p-Xylene	**3.2**	**J**	8.7	2.4	ug/m3			10/04/25 00:39	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-1-10
Date Collected: 09/26/25 13:06
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-10
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/04/25 00:39	1
Styrene	ND		6.4	2.2	ug/m3			10/04/25 00:39	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/04/25 00:39	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/04/25 00:39	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/04/25 00:39	1
tert-Butyl alcohol (TBA)	ND		6.1	1.6	ug/m3			10/04/25 00:39	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/04/25 00:39	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/04/25 00:39	1
Toluene	**26**		1.9	0.80	ug/m3			10/04/25 00:39	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/04/25 00:39	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/04/25 00:39	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/04/25 00:39	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/04/25 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*66 - 132*		*10/04/25 00:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/04/25 00:39*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/04/25 00:39*	*1*

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-1-5

Lab Sample ID: 570-248019-11

Date Collected: 09/26/25 13:26

Matrix: Air

Date Received: 09/26/25 14:34

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/03/25 01:23	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/03/25 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/03/25 01:23	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/03/25 01:23	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/03/25 01:23	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/03/25 01:23	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/03/25 01:23	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/03/25 01:23	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/03/25 01:23	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/03/25 01:23	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/03/25 01:23	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/03/25 01:23	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/03/25 01:23	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/03/25 01:23	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/03/25 01:23	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/03/25 01:23	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/03/25 01:23	1
2-Butanone (MEK)	**55**		4.4	1.8	ug/m3			10/03/25 01:23	1
2-Hexanone	**4.2**	**J**	6.1	3.0	ug/m3			10/03/25 01:23	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/03/25 01:23	1
4-Methyl-2-pentanone (MIBK)	**4.6**	**J**	6.1	2.6	ug/m3			10/03/25 01:23	1
Acetone	**160**		4.8	1.9	ug/m3			10/03/25 01:23	1
Benzene	**12**		1.6	0.63	ug/m3			10/03/25 01:23	1
Benzyl chloride	ND	*+	7.8	3.8	ug/m3			10/03/25 01:23	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/03/25 01:23	1
Bromoform	ND		5.2	1.8	ug/m3			10/03/25 01:23	1
Bromomethane	ND		1.9	0.96	ug/m3			10/03/25 01:23	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/03/25 01:23	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/03/25 01:23	1
Carbon disulfide	**12**		6.2	0.88	ug/m3			10/03/25 01:23	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/03/25 01:23	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/03/25 01:23	1
Chloroethane	ND		1.3	0.77	ug/m3			10/03/25 01:23	1
Chloroform	ND		2.4	1.1	ug/m3			10/03/25 01:23	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/03/25 01:23	1
Dichlorodifluoromethane	**2.0**	**J**	2.5	1.5	ug/m3			10/03/25 01:23	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/03/25 01:23	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/03/25 01:23	1
Ethylbenzene	**3.7**		2.2	0.90	ug/m3			10/03/25 01:23	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/03/25 01:23	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/03/25 01:23	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/03/25 01:23	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/03/25 01:23	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/03/25 01:23	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/03/25 01:23	1
o-Xylene	**1.7**	**J**	2.2	0.89	ug/m3			10/03/25 01:23	1
m,p-Xylene	**3.9**	**J**	8.7	2.4	ug/m3			10/03/25 01:23	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/03/25 01:23	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-1-5
Date Collected: 09/26/25 13:26
Date Received: 09/26/25 14:34
Sample Container: Summa Canister 1L

Lab Sample ID: 570-248019-11
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		6.4	2.2	ug/m3			10/03/25 01:23	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/03/25 01:23	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/03/25 01:23	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/03/25 01:23	1
tert-Butyl alcohol (TBA)	**4.0**	**J**	6.1	1.6	ug/m3			10/03/25 01:23	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/03/25 01:23	1
Tetrachloroethene	**3.9**		3.4	1.5	ug/m3			10/03/25 01:23	1
Toluene	**15**		1.9	0.80	ug/m3			10/03/25 01:23	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/03/25 01:23	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/03/25 01:23	1
Vinyl acetate	**7.1**		7.0	2.2	ug/m3			10/03/25 01:23	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/03/25 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*66 - 132*		*10/03/25 01:23*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/25 01:23*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/03/25 01:23*	*1*

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.62	ug/m3			10/04/25 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 132*		*10/04/25 01:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/04/25 01:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/04/25 01:23*	*1*

Surrogate Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		DCA	BFB	TOL						
Lab Sample ID	Client Sample ID	(66-132)	(70-130)	(70-130)						
570-248019-1	SV-3-10	110	97	105						
570-248019-1 - DL	SV-3-10	113	100	90						
570-248019-2	SV-3-5	112	103	105						
570-248019-2 - RA	SV-3-5	100	94	92						
570-248019-3	Dupe	110	103	107						
570-248019-3 - RA	Dupe	98	96	93						
570-248019-4	SV-4-10	110	103	106						
570-248019-4 - RA	SV-4-10	93	100	91						
570-248019-5	SV-4-5	110	105	104						
570-248019-5 - RA	SV-4-5	94	103	93						
570-248019-6	SV-2-10	106	101	107						
570-248019-6 - RA	SV-2-10	88	101	95						
570-248019-7	SV-2-5	107	103	108						
570-248019-7 - RA	SV-2-5	90	100	97						
570-248019-8	SV-5-10	97	102	94						
570-248019-9	SV-5-5	107	103	104						
570-248019-10	SV-1-10	99	107	95						
570-248019-11	SV-1-5	111	101	104						
570-248019-11 - RA	SV-1-5	89	95	99						
LCS 570-634493/4	Lab Control Sample	111	107	107						
LCS 570-635074/3	Lab Control Sample	95	80	102						
LCSD 570-634493/5	Lab Control Sample Dup	110	106	105						
LCSD 570-635074/4	Lab Control Sample Dup	98	81	103						
MB 570-634493/7	Method Blank	111	102	105						
MB 570-635074/6	Method Blank	112	102	96						

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 570-634493/7
Matrix: Air
Analysis Batch: 634493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/02/25 15:36	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/02/25 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/02/25 15:36	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/02/25 15:36	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/02/25 15:36	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/02/25 15:36	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/02/25 15:36	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/02/25 15:36	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/02/25 15:36	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/02/25 15:36	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/02/25 15:36	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/02/25 15:36	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/02/25 15:36	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/02/25 15:36	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/02/25 15:36	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/02/25 15:36	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/02/25 15:36	1
2-Butanone (MEK)	ND		4.4	1.8	ug/m3			10/02/25 15:36	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/02/25 15:36	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/02/25 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/02/25 15:36	1
Acetone	ND		4.8	1.9	ug/m3			10/02/25 15:36	1
Benzene	ND		1.6	0.63	ug/m3			10/02/25 15:36	1
Benzyl chloride	ND		7.8	3.8	ug/m3			10/02/25 15:36	1
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/02/25 15:36	1
Bromoform	ND		5.2	1.8	ug/m3			10/02/25 15:36	1
Bromomethane	ND		1.9	0.96	ug/m3			10/02/25 15:36	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/02/25 15:36	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/02/25 15:36	1
Carbon disulfide	ND		6.2	0.88	ug/m3			10/02/25 15:36	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/02/25 15:36	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/02/25 15:36	1
Chloroethane	ND		1.3	0.77	ug/m3			10/02/25 15:36	1
Chloroform	ND		2.4	1.1	ug/m3			10/02/25 15:36	1
Chloromethane	ND		1.0	0.62	ug/m3			10/02/25 15:36	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/02/25 15:36	1
Dichlorodifluoromethane	ND		2.5	1.5	ug/m3			10/02/25 15:36	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/02/25 15:36	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/02/25 15:36	1
Ethylbenzene	ND		2.2	0.90	ug/m3			10/02/25 15:36	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/02/25 15:36	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/02/25 15:36	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/02/25 15:36	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/02/25 15:36	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/02/25 15:36	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/02/25 15:36	1
o-Xylene	ND		2.2	0.89	ug/m3			10/02/25 15:36	1
m,p-Xylene	ND		8.7	2.4	ug/m3			10/02/25 15:36	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-634493/7
Matrix: Air
Analysis Batch: 634493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/02/25 15:36	1
Styrene	ND		6.4	2.2	ug/m3			10/02/25 15:36	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/02/25 15:36	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/02/25 15:36	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/02/25 15:36	1
tert-Butyl alcohol (TBA)	ND		6.1	1.6	ug/m3			10/02/25 15:36	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/02/25 15:36	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/02/25 15:36	1
Toluene	ND		1.9	0.80	ug/m3			10/02/25 15:36	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/02/25 15:36	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/02/25 15:36	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/02/25 15:36	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/02/25 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*66 - 132*		*10/02/25 15:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/02/25 15:36*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/02/25 15:36*	*1*

Lab Sample ID: LCS 570-634493/4
Matrix: Air
Analysis Batch: 634493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	136	147.9		ug/m3		108	67 - 135
1,1,2,2-Tetrachloroethane	172	200.1		ug/m3		117	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	192	197.3		ug/m3		103	70 - 130
1,1,2-Trichloroethane	136	156.5		ug/m3		115	69 - 131
1,1-Dichloroethane	101	111.0		ug/m3		110	69 - 130
1,1-Dichloroethene	99.1	108.0		ug/m3		109	64 - 135
1,1-Difluoroethane	67.5	71.68		ug/m3		106	57 - 146
1,2,4-Trichlorobenzene	186	190.7		ug/m3		103	51 - 134
1,2,4-Trimethylbenzene	123	126.9		ug/m3		103	68 - 130
1,2-Dibromo-3-Chloropropane	242	236.1		ug/m3		98	66 - 130
1,2-Dibromoethane	192	211.5		ug/m3		110	70 - 130
1,2-Dichlorobenzene	150	145.1		ug/m3		97	68 - 130
1,2-Dichloroethane	101	118.8		ug/m3		117	65 - 136
1,2-Dichloropropane	116	127.2		ug/m3		110	68 - 132
1,3,5-Trimethylbenzene	123	130.5		ug/m3		106	69 - 130
1,3-Dichlorobenzene	150	147.7		ug/m3		98	65 - 130
1,4-Dichlorobenzene	150	149.6		ug/m3		100	64 - 130
2-Butanone (MEK)	73.7	86.62		ug/m3		117	66 - 143
2-Hexanone	102	123.9		ug/m3		121	64 - 139
4-Ethyltoluene	123	132.4		ug/m3		108	69 - 130
4-Methyl-2-pentanone (MIBK)	102	118.6		ug/m3		116	65 - 135
Acetone	59.4	65.67		ug/m3		111	70 - 130
Benzene	79.9	85.75		ug/m3		107	68 - 134
Benzyl chloride	129	177.4	*+ me	ug/m3		137	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-634493/4
Matrix: Air
Analysis Batch: 634493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	168	181.6		ug/m3		108	69 - 132
Bromoform	258	281.3		ug/m3		109	70 - 130
Bromomethane	97.1	103.5		ug/m3		107	65 - 130
cis-1,2-Dichloroethene	99.1	106.2		ug/m3		107	70 - 130
cis-1,3-Dichloropropene	113	135.5		ug/m3		119	70 - 134
Carbon disulfide	77.9	78.08		ug/m3		100	70 - 130
Carbon tetrachloride	157	163.8		ug/m3		104	68 - 133
Chlorobenzene	115	121.2		ug/m3		105	70 - 130
Chloroethane	66.0	72.04		ug/m3		109	66 - 134
Chloroform	122	135.7		ug/m3		111	67 - 131
Chloromethane	51.6	75.14	*+ me	ug/m3		146	60 - 137
Dibromochloromethane	213	233.7		ug/m3		110	70 - 130
Dichlorodifluoromethane	124	126.9		ug/m3		103	57 - 138
Dichlorotetrafluoroethane	175	183.5		ug/m3		105	60 - 133
Di-isopropyl ether (DIPE)	104	116.7		ug/m3		112	58 - 144
Ethylbenzene	109	117.4		ug/m3		108	70 - 130
Ethyl-t-butyl ether (ETBE)	104	112.8		ug/m3		108	67 - 130
Hexachloro-1,3-butadiene	267	257.7		ug/m3		97	58 - 130
Isopropyl alcohol	61.5	74.53		ug/m3		121	64 - 133
Methylene Chloride	86.8	93.52		ug/m3		108	65 - 130
Methyl-t-Butyl Ether (MTBE)	90.1	99.23		ug/m3		110	70 - 130
n-Butylbenzene	137	147.6		ug/m3		108	64 - 130
o-Xylene	109	118.8		ug/m3		109	68 - 130
m,p-Xylene	217	239.9		ug/m3		111	70 - 130
sec-Butylbenzene	137	145.4		ug/m3		106	67 - 130
Styrene	106	128.9		ug/m3		121	70 - 130
trans-1,2-Dichloroethene	99.1	96.81		ug/m3		98	70 - 130
trans-1,3-Dichloropropene	113	130.2		ug/m3		115	66 - 142
Tert-amyl-methyl ether (TAME)	104	109.1		ug/m3		104	70 - 130
tert-Butyl alcohol (TBA)	152	159.4		ug/m3		105	65 - 132
tert-Butylbenzene	137	136.1		ug/m3		99	70 - 130
Tetrachloroethene	170	164.7		ug/m3		97	70 - 130
Toluene	94.2	103.7		ug/m3		110	70 - 130
Trichloroethene	134	137.4		ug/m3		102	69 - 130
Trichlorofluoromethane	140	146.2		ug/m3		104	62 - 139
Vinyl acetate	88.0	107.6		ug/m3		122	64 - 139
Vinyl chloride	63.9	69.46		ug/m3		109	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*66 - 132*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-634493/5
Matrix: Air
Analysis Batch: 634493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	143.5		ug/m3		105	67 - 135	3	25
1,1,2,2-Tetrachloroethane	172	196.4		ug/m3		114	70 - 130	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	192	193.2		ug/m3		101	70 - 130	2	25
1,1,2-Trichloroethane	136	153.2		ug/m3		112	69 - 131	2	25
1,1-Dichloroethane	101	107.6		ug/m3		106	69 - 130	3	25
1,1-Dichloroethene	99.1	104.9		ug/m3		106	64 - 135	3	25
1,1-Difluoroethane	67.5	68.32		ug/m3		101	57 - 146	5	25
1,2,4-Trichlorobenzene	186	196.3		ug/m3		106	51 - 134	3	25
1,2,4-Trimethylbenzene	123	126.4		ug/m3		103	68 - 130	0	25
1,2-Dibromo-3-Chloropropane	242	238.5		ug/m3		99	66 - 130	1	25
1,2-Dibromoethane	192	207.7		ug/m3		108	70 - 130	2	25
1,2-Dichlorobenzene	150	140.9		ug/m3		94	68 - 130	3	25
1,2-Dichloroethane	101	116.7		ug/m3		115	65 - 136	2	25
1,2-Dichloropropane	116	124.8		ug/m3		108	68 - 132	2	25
1,3,5-Trimethylbenzene	123	128.3		ug/m3		104	69 - 130	2	25
1,3-Dichlorobenzene	150	144.8		ug/m3		96	65 - 130	2	25
1,4-Dichlorobenzene	150	147.1		ug/m3		98	64 - 130	2	25
2-Butanone (MEK)	73.7	83.45		ug/m3		113	66 - 143	4	25
2-Hexanone	102	118.9		ug/m3		116	64 - 139	4	25
4-Ethyltoluene	123	131.5		ug/m3		107	69 - 130	1	25
4-Methyl-2-pentanone (MIBK)	102	118.8		ug/m3		116	65 - 135	0	25
Acetone	59.4	62.63		ug/m3		105	70 - 130	5	25
Benzene	79.9	84.35		ug/m3		106	68 - 134	2	25
Benzyl chloride	129	174.9	*+ me	ug/m3		135	70 - 130	1	25
Bromodichloromethane	168	175.1		ug/m3		105	69 - 132	4	25
Bromoform	258	277.7		ug/m3		107	70 - 130	1	25
Bromomethane	97.1	99.70		ug/m3		103	65 - 130	4	25
cis-1,2-Dichloroethene	99.1	105.9		ug/m3		107	70 - 130	0	25
cis-1,3-Dichloropropene	113	133.2		ug/m3		117	70 - 134	2	25
Carbon disulfide	77.9	75.83		ug/m3		97	70 - 130	3	25
Carbon tetrachloride	157	161.3		ug/m3		103	68 - 133	2	25
Chlorobenzene	115	120.4		ug/m3		105	70 - 130	1	25
Chloroethane	66.0	68.36		ug/m3		104	66 - 134	5	25
Chloroform	122	132.4		ug/m3		108	67 - 131	2	25
Chloromethane	51.6	71.54	*+ me	ug/m3		139	60 - 137	5	25
Dibromochloromethane	213	227.2		ug/m3		107	70 - 130	3	25
Dichlorodifluoromethane	124	125.9		ug/m3		102	57 - 138	1	25
Dichlorotetrafluoroethane	175	180.0		ug/m3		103	60 - 133	2	25
Di-isopropyl ether (DIPE)	104	118.2		ug/m3		113	58 - 144	1	25
Ethylbenzene	109	116.0		ug/m3		107	70 - 130	1	25
Ethyl-t-butyl ether (ETBE)	104	113.4		ug/m3		109	67 - 130	1	25
Hexachloro-1,3-butadiene	267	262.1		ug/m3		98	58 - 130	2	25
Isopropyl alcohol	61.5	71.50		ug/m3		116	64 - 133	4	25
Methylene Chloride	86.8	90.67		ug/m3		104	65 - 130	3	25
Methyl-t-Butyl Ether (MTBE)	90.1	97.82		ug/m3		109	70 - 130	1	25
n-Butylbenzene	137	146.8		ug/m3		107	64 - 130	1	25
o-Xylene	109	116.7		ug/m3		108	68 - 130	2	25
m,p-Xylene	217	233.9		ug/m3		108	70 - 130	3	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-634493/5
Matrix: Air
Analysis Batch: 634493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene			137	144.4		ug/m3		105	67 - 130	1	25
Styrene			106	126.2		ug/m3		119	70 - 130	2	25
trans-1,2-Dichloroethene			99.1	94.04		ug/m3		95	70 - 130	3	25
trans-1,3-Dichloropropene			113	130.2		ug/m3		115	66 - 142	0	25
Tert-amyl-methyl ether (TAME)			104	110.3		ug/m3		106	70 - 130	1	25
tert-Butyl alcohol (TBA)			152	158.3		ug/m3		104	65 - 132	1	25
tert-Butylbenzene			137	134.5		ug/m3		98	70 - 130	1	25
Tetrachloroethene			170	162.3		ug/m3		96	70 - 130	1	25
Toluene			94.2	99.95		ug/m3		106	70 - 130	4	25
Trichloroethene			134	134.5		ug/m3		100	69 - 130	2	25
Trichlorofluoromethane			140	140.6		ug/m3		100	62 - 139	4	25
Vinyl acetate			88.0	103.3		ug/m3		117	64 - 139	4	25
Vinyl chloride			63.9	66.60		ug/m3		104	65 - 130	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 132*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 570-635074/6
Matrix: Air
Analysis Batch: 635074

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	1.1	ug/m3			10/03/25 14:39	1
1,1,2,2-Tetrachloroethane	ND		6.9	1.3	ug/m3			10/03/25 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	2.2	ug/m3			10/03/25 14:39	1
1,1,2-Trichloroethane	ND		2.7	1.3	ug/m3			10/03/25 14:39	1
1,1-Dichloroethane	ND		2.0	0.87	ug/m3			10/03/25 14:39	1
1,1-Dichloroethene	ND		2.0	0.87	ug/m3			10/03/25 14:39	1
1,1-Difluoroethane	ND		14	2.0	ug/m3			10/03/25 14:39	1
1,2,4-Trichlorobenzene	ND		15	7.5	ug/m3			10/03/25 14:39	1
1,2,4-Trimethylbenzene	ND		7.4	2.1	ug/m3			10/03/25 14:39	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.9	ug/m3			10/03/25 14:39	1
1,2-Dibromoethane	ND		3.8	1.4	ug/m3			10/03/25 14:39	1
1,2-Dichlorobenzene	ND		3.0	1.6	ug/m3			10/03/25 14:39	1
1,2-Dichloroethane	ND		2.0	0.78	ug/m3			10/03/25 14:39	1
1,2-Dichloropropane	ND		2.3	0.90	ug/m3			10/03/25 14:39	1
1,3,5-Trimethylbenzene	ND		2.5	1.0	ug/m3			10/03/25 14:39	1
1,3-Dichlorobenzene	ND		3.0	1.7	ug/m3			10/03/25 14:39	1
1,4-Dichlorobenzene	ND		3.0	1.8	ug/m3			10/03/25 14:39	1
2-Butanone (MEK)	ND		4.4	1.8	ug/m3			10/03/25 14:39	1
2-Hexanone	ND		6.1	3.0	ug/m3			10/03/25 14:39	1
4-Ethyltoluene	ND		2.5	1.1	ug/m3			10/03/25 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	2.6	ug/m3			10/03/25 14:39	1
Acetone	ND		4.8	1.9	ug/m3			10/03/25 14:39	1
Benzene	ND		1.6	0.63	ug/m3			10/03/25 14:39	1
Benzyl chloride	ND		7.8	3.8	ug/m3			10/03/25 14:39	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-635074/6
Matrix: Air
Analysis Batch: 635074

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		3.4	1.2	ug/m3			10/03/25 14:39	1
Bromoform	ND		5.2	1.8	ug/m3			10/03/25 14:39	1
Bromomethane	ND		1.9	0.96	ug/m3			10/03/25 14:39	1
cis-1,2-Dichloroethene	ND		2.0	0.94	ug/m3			10/03/25 14:39	1
cis-1,3-Dichloropropene	ND		2.3	1.1	ug/m3			10/03/25 14:39	1
Carbon disulfide	ND		6.2	0.88	ug/m3			10/03/25 14:39	1
Carbon tetrachloride	ND		3.1	1.0	ug/m3			10/03/25 14:39	1
Chlorobenzene	ND		2.3	0.73	ug/m3			10/03/25 14:39	1
Chloroethane	ND		1.3	0.77	ug/m3			10/03/25 14:39	1
Chloroform	ND		2.4	1.1	ug/m3			10/03/25 14:39	1
Chloromethane	ND		1.0	0.62	ug/m3			10/03/25 14:39	1
Dibromochloromethane	ND		4.3	1.3	ug/m3			10/03/25 14:39	1
Dichlorodifluoromethane	ND		2.5	1.5	ug/m3			10/03/25 14:39	1
Dichlorotetrafluoroethane	ND		14	4.0	ug/m3			10/03/25 14:39	1
Di-isopropyl ether (DIPE)	ND		8.4	2.6	ug/m3			10/03/25 14:39	1
Ethylbenzene	ND		2.2	0.90	ug/m3			10/03/25 14:39	1
Ethyl-t-butyl ether (ETBE)	ND		8.4	2.5	ug/m3			10/03/25 14:39	1
Hexachloro-1,3-butadiene	ND		16	6.9	ug/m3			10/03/25 14:39	1
Isopropyl alcohol	ND		12	7.8	ug/m3			10/03/25 14:39	1
Methylene Chloride	ND		4.3	3.1	ug/m3			10/03/25 14:39	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2	2.4	ug/m3			10/03/25 14:39	1
n-Butylbenzene	ND		8.2	3.0	ug/m3			10/03/25 14:39	1
o-Xylene	ND		2.2	0.89	ug/m3			10/03/25 14:39	1
m,p-Xylene	ND		8.7	2.4	ug/m3			10/03/25 14:39	1
sec-Butylbenzene	ND		8.2	2.3	ug/m3			10/03/25 14:39	1
Styrene	ND		6.4	2.2	ug/m3			10/03/25 14:39	1
trans-1,2-Dichloroethene	ND		2.0	0.89	ug/m3			10/03/25 14:39	1
trans-1,3-Dichloropropene	ND		4.5	1.1	ug/m3			10/03/25 14:39	1
Tert-amyl-methyl ether (TAME)	ND		8.4	2.4	ug/m3			10/03/25 14:39	1
tert-Butyl alcohol (TBA)	ND		6.1	1.6	ug/m3			10/03/25 14:39	1
tert-Butylbenzene	ND		8.2	2.4	ug/m3			10/03/25 14:39	1
Tetrachloroethene	ND		3.4	1.5	ug/m3			10/03/25 14:39	1
Toluene	ND		1.9	0.80	ug/m3			10/03/25 14:39	1
Trichloroethene	ND		2.7	1.1	ug/m3			10/03/25 14:39	1
Trichlorofluoromethane	ND		5.6	1.3	ug/m3			10/03/25 14:39	1
Vinyl acetate	ND		7.0	2.2	ug/m3			10/03/25 14:39	1
Vinyl chloride	ND		1.3	0.67	ug/m3			10/03/25 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*66 - 132*		*10/03/25 14:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/25 14:39*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/03/25 14:39*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-635074/3
Matrix: Air
Analysis Batch: 635074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	136	129.8		ug/m3		95	67 - 135
1,1,2,2-Tetrachloroethane	172	158.9		ug/m3		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	192	185.5		ug/m3		97	70 - 130
1,1,2-Trichloroethane	136	150.0		ug/m3		110	69 - 131
1,1-Dichloroethane	101	94.58		ug/m3		93	69 - 130
1,1-Dichloroethene	99.1	90.60		ug/m3		91	64 - 135
1,1-Difluoroethane	67.5	45.40		ug/m3		67	57 - 146
1,2,4-Trichlorobenzene	186	182.4		ug/m3		98	51 - 134
1,2,4-Trimethylbenzene	123	106.0		ug/m3		86	68 - 130
1,2-Dibromo-3-Chloropropane	242	223.8		ug/m3		93	66 - 130
1,2-Dibromoethane	192	209.6		ug/m3		109	70 - 130
1,2-Dichlorobenzene	150	135.4		ug/m3		90	68 - 130
1,2-Dichloroethane	101	102.3		ug/m3		101	65 - 136
1,2-Dichloropropane	116	121.5		ug/m3		105	68 - 132
1,3,5-Trimethylbenzene	123	110.0		ug/m3		90	69 - 130
1,3-Dichlorobenzene	150	133.4		ug/m3		89	65 - 130
1,4-Dichlorobenzene	150	131.5		ug/m3		87	64 - 130
2-Butanone (MEK)	73.7	75.13		ug/m3		102	66 - 143
2-Hexanone	102	99.45		ug/m3		97	64 - 139
4-Ethyltoluene	123	110.5		ug/m3		90	69 - 130
4-Methyl-2-pentanone (MIBK)	102	105.2		ug/m3		103	65 - 135
Acetone	59.4	53.67		ug/m3		90	70 - 130
Benzene	79.9	86.87		ug/m3		109	68 - 134
Benzyl chloride	129	123.3		ug/m3		95	70 - 130
Bromodichloromethane	168	185.1		ug/m3		110	69 - 132
Bromoform	258	272.2		ug/m3		105	70 - 130
Bromomethane	97.1	91.02		ug/m3		94	65 - 130
cis-1,2-Dichloroethene	99.1	98.86		ug/m3		100	70 - 130
cis-1,3-Dichloropropene	113	131.9		ug/m3		116	70 - 134
Carbon disulfide	77.9	66.34		ug/m3		85	70 - 130
Carbon tetrachloride	157	163.8		ug/m3		104	68 - 133
Chlorobenzene	115	122.6		ug/m3		106	70 - 130
Chloroethane	66.0	58.89		ug/m3		89	66 - 134
Chloroform	122	121.6		ug/m3		100	67 - 131
Chloromethane	51.6	35.07		ug/m3		68	60 - 137
Dibromochloromethane	213	233.6		ug/m3		110	70 - 130
Dichlorodifluoromethane	124	111.4		ug/m3		90	57 - 138
Dichlorotetrafluoroethane	175	157.6		ug/m3		90	60 - 133
Di-isopropyl ether (DIPE)	104	97.17		ug/m3		93	58 - 144
Ethylbenzene	109	113.1		ug/m3		104	70 - 130
Ethyl-t-butyl ether (ETBE)	104	98.04		ug/m3		94	67 - 130
Hexachloro-1,3-butadiene	267	258.7		ug/m3		97	58 - 130
Isopropyl alcohol	61.5	50.63		ug/m3		82	64 - 133
Methylene Chloride	86.8	77.73		ug/m3		90	65 - 130
Methyl-t-Butyl Ether (MTBE)	90.1	89.68		ug/m3		99	70 - 130
n-Butylbenzene	137	119.4		ug/m3		87	64 - 130
o-Xylene	109	102.9		ug/m3		95	68 - 130
m,p-Xylene	217	212.2		ug/m3		98	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-635074/3
Matrix: Air
Analysis Batch: 635074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	137	119.3		ug/m3		87	67 - 130
Styrene	106	108.3		ug/m3		102	70 - 130
trans-1,2-Dichloroethene	99.1	89.73		ug/m3		91	70 - 130
trans-1,3-Dichloropropene	113	125.7		ug/m3		111	66 - 142
Tert-amyl-methyl ether (TAME)	104	105.9		ug/m3		101	70 - 130
tert-Butyl alcohol (TBA)	152	126.4		ug/m3		83	65 - 132
tert-Butylbenzene	137	118.1		ug/m3		86	70 - 130
Tetrachloroethene	170	182.9		ug/m3		108	70 - 130
Toluene	94.2	98.50		ug/m3		105	70 - 130
Trichloroethene	134	150.3		ug/m3		112	69 - 130
Trichlorofluoromethane	140	124.8		ug/m3		89	62 - 139
Vinyl acetate	88.0	85.27		ug/m3		97	64 - 139
Vinyl chloride	63.9	58.33		ug/m3		91	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*66 - 132*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 570-635074/4
Matrix: Air
Analysis Batch: 635074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	125.5		ug/m3		92	67 - 135	3	25
1,1,2,2-Tetrachloroethane	172	147.5		ug/m3		86	70 - 130	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	192	181.7		ug/m3		95	70 - 130	2	25
1,1,2-Trichloroethane	136	138.9		ug/m3		102	69 - 131	8	25
1,1-Dichloroethane	101	90.78		ug/m3		90	69 - 130	4	25
1,1-Dichloroethene	99.1	89.61		ug/m3		90	64 - 135	1	25
1,1-Difluoroethane	67.5	50.03		ug/m3		74	57 - 146	10	25
1,2,4-Trichlorobenzene	186	164.0		ug/m3		88	51 - 134	11	25
1,2,4-Trimethylbenzene	123	96.67		ug/m3		79	68 - 130	9	25
1,2-Dibromo-3-Chloropropane	242	200.2		ug/m3		83	66 - 130	11	25
1,2-Dibromoethane	192	191.6		ug/m3		100	70 - 130	9	25
1,2-Dichlorobenzene	150	121.9		ug/m3		81	68 - 130	10	25
1,2-Dichloroethane	101	98.04		ug/m3		97	65 - 136	4	25
1,2-Dichloropropane	116	112.3		ug/m3		97	68 - 132	8	25
1,3,5-Trimethylbenzene	123	100.3		ug/m3		82	69 - 130	9	25
1,3-Dichlorobenzene	150	121.2		ug/m3		81	65 - 130	10	25
1,4-Dichlorobenzene	150	119.8		ug/m3		80	64 - 130	9	25
2-Butanone (MEK)	73.7	72.46		ug/m3		98	66 - 143	4	25
2-Hexanone	102	92.53		ug/m3		90	64 - 139	7	25
4-Ethyltoluene	123	101.4		ug/m3		83	69 - 130	9	25
4-Methyl-2-pentanone (MIBK)	102	97.99		ug/m3		96	65 - 135	7	25
Acetone	59.4	50.89		ug/m3		86	70 - 130	5	25
Benzene	79.9	78.96		ug/m3		99	68 - 134	10	25
Benzyl chloride	129	112.1		ug/m3		87	70 - 130	9	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-635074/4
Matrix: Air
Analysis Batch: 635074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane			168	169.7		ug/m3		101	69 - 132	9	25
Bromoform			258	251.6		ug/m3		97	70 - 130	8	25
Bromomethane			97.1	91.43		ug/m3		94	65 - 130	0	25
cis-1,2-Dichloroethene			99.1	93.17		ug/m3		94	70 - 130	6	25
cis-1,3-Dichloropropene			113	120.8		ug/m3		106	70 - 134	9	25
Carbon disulfide			77.9	65.97		ug/m3		85	70 - 130	1	25
Carbon tetrachloride			157	147.4		ug/m3		94	68 - 133	11	25
Chlorobenzene			115	112.7		ug/m3		98	70 - 130	8	25
Chloroethane			66.0	58.86		ug/m3		89	66 - 134	0	25
Chloroform			122	113.7		ug/m3		93	67 - 131	7	25
Chloromethane			51.6	35.02		ug/m3		68	60 - 137	0	25
Dibromochloromethane			213	212.2		ug/m3		100	70 - 130	10	25
Dichlorodifluoromethane			124	110.0		ug/m3		89	57 - 138	1	25
Dichlorotetrafluoroethane			175	157.7		ug/m3		90	60 - 133	0	25
Di-isopropyl ether (DIPE)			104	97.30		ug/m3		93	58 - 144	0	25
Ethylbenzene			109	103.8		ug/m3		96	70 - 130	9	25
Ethyl-t-butyl ether (ETBE)			104	96.73		ug/m3		93	67 - 130	1	25
Hexachloro-1,3-butadiene			267	230.8		ug/m3		87	58 - 130	11	25
Isopropyl alcohol			61.5	49.73		ug/m3		81	64 - 133	2	25
Methylene Chloride			86.8	82.77		ug/m3		95	65 - 130	6	25
Methyl-t-Butyl Ether (MTBE)			90.1	84.67		ug/m3		94	70 - 130	6	25
n-Butylbenzene			137	108.1		ug/m3		79	64 - 130	10	25
o-Xylene			109	96.12		ug/m3		89	68 - 130	7	25
m,p-Xylene			217	197.9		ug/m3		91	70 - 130	7	25
sec-Butylbenzene			137	108.1		ug/m3		79	67 - 130	10	25
Styrene			106	101.9		ug/m3		96	70 - 130	6	25
trans-1,2-Dichloroethene			99.1	86.76		ug/m3		88	70 - 130	3	25
trans-1,3-Dichloropropene			113	114.4		ug/m3		101	66 - 142	9	25
Tert-amyl-methyl ether (TAME)			104	97.78		ug/m3		94	70 - 130	8	25
tert-Butyl alcohol (TBA)			152	122.5		ug/m3		81	65 - 132	3	25
tert-Butylbenzene			137	108.1		ug/m3		79	70 - 130	9	25
Tetrachloroethene			170	165.2		ug/m3		97	70 - 130	10	25
Toluene			94.2	88.40		ug/m3		94	70 - 130	11	25
Trichloroethene			134	137.0		ug/m3		102	69 - 130	9	25
Trichlorofluoromethane			140	130.2		ug/m3		93	62 - 139	4	25
Vinyl acetate			88.0	81.74		ug/m3		93	64 - 139	4	25
Vinyl chloride			63.9	57.83		ug/m3		90	65 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 132*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Marginal Exceedance (ME) Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: LCS 570-634493/4
Matrix: Air

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1-Trichloroethane	136	147.9		ug/m3	108	67 - 135	56 - 146	
1,1,2,2-Tetrachloroethane	172	200.1		ug/m3	117	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	192	197.3		ug/m3	103	70 - 130	60 - 140	
1,1,2-Trichloroethane	136	156.5		ug/m3	115	69 - 131	59 - 141	
1,1-Dichloroethane	101	111.0		ug/m3	110	69 - 130	59 - 140	
1,1-Dichloroethene	99.1	108.0		ug/m3	109	64 - 135	52 - 147	
1,1-Difluoroethane	67.5	71.68		ug/m3	106	57 - 146	42 - 161	
1,2,4-Trichlorobenzene	186	190.7		ug/m3	103	51 - 134	37 - 148	
1,2,4-Trimethylbenzene	123	126.9		ug/m3	103	68 - 130	58 - 140	
1,2-Dibromo-3-Chloropropane	242	236.1		ug/m3	98	66 - 130	55 - 141	
1,2-Dibromoethane	192	211.5		ug/m3	110	70 - 130	60 - 140	
1,2-Dichlorobenzene	150	145.1		ug/m3	97	68 - 130	58 - 140	
1,2-Dichloroethane	101	118.8		ug/m3	117	65 - 136	53 - 148	
1,2-Dichloropropane	116	127.2		ug/m3	110	68 - 132	57 - 143	
1,3,5-Trimethylbenzene	123	130.5		ug/m3	106	69 - 130	59 - 140	
1,3-Dichlorobenzene	150	147.7		ug/m3	98	65 - 130	54 - 141	
1,4-Dichlorobenzene	150	149.6		ug/m3	100	64 - 130	53 - 141	
2-Butanone (MEK)	73.7	86.62		ug/m3	117	66 - 143	53 - 156	
2-Hexanone	102	123.9		ug/m3	121	64 - 139	52 - 152	
4-Ethyltoluene	123	132.4		ug/m3	108	69 - 130	59 - 140	
4-Methyl-2-pentanone (MIBK)	102	118.6		ug/m3	116	65 - 135	53 - 147	
Acetone	59.4	65.67		ug/m3	111	70 - 130	60 - 140	
Benzene	79.9	85.75		ug/m3	107	68 - 134	57 - 145	
Benzyl chloride	129	177.4	*+ me	ug/m3	137	70 - 130	60 - 140	ME
Bromodichloromethane	168	181.6		ug/m3	108	69 - 132	59 - 143	
Bromoform	258	281.3		ug/m3	109	70 - 130	60 - 140	
Bromomethane	97.1	103.5		ug/m3	107	65 - 130	54 - 141	
cis-1,2-Dichloroethene	99.1	106.2		ug/m3	107	70 - 130	60 - 140	
cis-1,3-Dichloropropene	113	135.5		ug/m3	119	70 - 134	59 - 145	
Carbon disulfide	77.9	78.08		ug/m3	100	70 - 130	60 - 140	
Carbon tetrachloride	157	163.8		ug/m3	104	68 - 133	57 - 144	
Chlorobenzene	115	121.2		ug/m3	105	70 - 130	60 - 140	
Chloroethane	66.0	72.04		ug/m3	109	66 - 134	55 - 145	
Chloroform	122	135.7		ug/m3	111	67 - 131	56 - 142	
Chloromethane	51.6	75.14	*+ me	ug/m3	146	60 - 137	47 - 150	ME
Dibromochloromethane	213	233.7		ug/m3	110	70 - 130	60 - 140	
Dichlorodifluoromethane	124	126.9		ug/m3	103	57 - 138	44 - 152	
Dichlorotetrafluoroethane	175	183.5		ug/m3	105	60 - 133	48 - 145	
Di-isopropyl ether (DIPE)	104	116.7		ug/m3	112	58 - 144	44 - 158	
Ethylbenzene	109	117.4		ug/m3	108	70 - 130	60 - 140	
Ethyl-t-butyl ether (ETBE)	104	112.8		ug/m3	108	67 - 130	57 - 141	
Hexachloro-1,3-butadiene	267	257.7		ug/m3	97	58 - 130	46 - 142	
Isopropyl alcohol	61.5	74.53		ug/m3	121	64 - 133	53 - 145	
Methylene Chloride	86.8	93.52		ug/m3	108	65 - 130	54 - 141	
Methyl-t-Butyl Ether (MTBE)	90.1	99.23		ug/m3	110	70 - 130	60 - 140	
n-Butylbenzene	137	147.6		ug/m3	108	64 - 130	53 - 141	
o-Xylene	109	118.8		ug/m3	109	68 - 130	58 - 140	
m,p-Xylene	217	239.9		ug/m3	111	70 - 130	60 - 140	
sec-Butylbenzene	137	145.4		ug/m3	106	67 - 130	57 - 141	

Marginal Exceedance (ME) Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-634493/4
Matrix: Air

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Styrene	106	128.9		ug/m3	121	70 - 130	60 - 140	
trans-1,2-Dichloroethene	99.1	96.81		ug/m3	98	70 - 130	60 - 140	
trans-1,3-Dichloropropene	113	130.2		ug/m3	115	66 - 142	53 - 155	
Tert-amyl-methyl ether (TAME)	104	109.1		ug/m3	104	70 - 130	60 - 140	
tert-Butyl alcohol (TBA)	152	159.4		ug/m3	105	65 - 132	54 - 143	
tert-Butylbenzene	137	136.1		ug/m3	99	70 - 130	60 - 140	
Tetrachloroethene	170	164.7		ug/m3	97	70 - 130	60 - 140	
Toluene	94.2	103.7		ug/m3	110	70 - 130	60 - 140	
Trichloroethene	134	137.4		ug/m3	102	69 - 130	59 - 140	
Trichlorofluoromethane	140	146.2		ug/m3	104	62 - 139	49 - 152	
Vinyl acetate	88.0	107.6		ug/m3	122	64 - 139	52 - 152	
Vinyl chloride	63.9	69.46		ug/m3	109	65 - 130	54 - 141	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
61	3	2

ME = Marginal Exceedance

Lab Sample ID: LCSD 570-634493/5
Matrix: Air

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1-Trichloroethane	136	143.5		ug/m3	105	67 - 135	56 - 146	
1,1,2,2-Tetrachloroethane	172	196.4		ug/m3	114	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	192	193.2		ug/m3	101	70 - 130	60 - 140	
1,1,2-Trichloroethane	136	153.2		ug/m3	112	69 - 131	59 - 141	
1,1-Dichloroethane	101	107.6		ug/m3	106	69 - 130	59 - 140	
1,1-Dichloroethene	99.1	104.9		ug/m3	106	64 - 135	52 - 147	
1,1-Difluoroethane	67.5	68.32		ug/m3	101	57 - 146	42 - 161	
1,2,4-Trichlorobenzene	186	196.3		ug/m3	106	51 - 134	37 - 148	
1,2,4-Trimethylbenzene	123	126.4		ug/m3	103	68 - 130	58 - 140	
1,2-Dibromo-3-Chloropropane	242	238.5		ug/m3	99	66 - 130	55 - 141	
1,2-Dibromoethane	192	207.7		ug/m3	108	70 - 130	60 - 140	
1,2-Dichlorobenzene	150	140.9		ug/m3	94	68 - 130	58 - 140	
1,2-Dichloroethane	101	116.7		ug/m3	115	65 - 136	53 - 148	
1,2-Dichloropropane	116	124.8		ug/m3	108	68 - 132	57 - 143	
1,3,5-Trimethylbenzene	123	128.3		ug/m3	104	69 - 130	59 - 140	
1,3-Dichlorobenzene	150	144.8		ug/m3	96	65 - 130	54 - 141	
1,4-Dichlorobenzene	150	147.1		ug/m3	98	64 - 130	53 - 141	
2-Butanone (MEK)	73.7	83.45		ug/m3	113	66 - 143	53 - 156	
2-Hexanone	102	118.9		ug/m3	116	64 - 139	52 - 152	
4-Ethyltoluene	123	131.5		ug/m3	107	69 - 130	59 - 140	
4-Methyl-2-pentanone (MIBK)	102	118.8		ug/m3	116	65 - 135	53 - 147	
Acetone	59.4	62.63		ug/m3	105	70 - 130	60 - 140	
Benzene	79.9	84.35		ug/m3	106	68 - 134	57 - 145	
Benzyl chloride	129	174.9	*+ me	ug/m3	135	70 - 130	60 - 140	ME
Bromodichloromethane	168	175.1		ug/m3	105	69 - 132	59 - 143	
Bromoform	258	277.7		ug/m3	107	70 - 130	60 - 140	

Marginal Exceedance (ME) Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-634493/5
Matrix: Air

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Bromomethane	97.1	99.70		ug/m3	103	65 - 130	54 - 141	
cis-1,2-Dichloroethene	99.1	105.9		ug/m3	107	70 - 130	60 - 140	
cis-1,3-Dichloropropene	113	133.2		ug/m3	117	70 - 134	59 - 145	
Carbon disulfide	77.9	75.83		ug/m3	97	70 - 130	60 - 140	
Carbon tetrachloride	157	161.3		ug/m3	103	68 - 133	57 - 144	
Chlorobenzene	115	120.4		ug/m3	105	70 - 130	60 - 140	
Chloroethane	66.0	68.36		ug/m3	104	66 - 134	55 - 145	
Chloroform	122	132.4		ug/m3	108	67 - 131	56 - 142	
Chloromethane	51.6	71.54	*+ me	ug/m3	139	60 - 137	47 - 150	ME
Dibromochloromethane	213	227.2		ug/m3	107	70 - 130	60 - 140	
Dichlorodifluoromethane	124	125.9		ug/m3	102	57 - 138	44 - 152	
Dichlorotetrafluoroethane	175	180.0		ug/m3	103	60 - 133	48 - 145	
Di-isopropyl ether (DIPE)	104	118.2		ug/m3	113	58 - 144	44 - 158	
Ethylbenzene	109	116.0		ug/m3	107	70 - 130	60 - 140	
Ethyl-t-butyl ether (ETBE)	104	113.4		ug/m3	109	67 - 130	57 - 141	
Hexachloro-1,3-butadiene	267	262.1		ug/m3	98	58 - 130	46 - 142	
Isopropyl alcohol	61.5	71.50		ug/m3	116	64 - 133	53 - 145	
Methylene Chloride	86.8	90.67		ug/m3	104	65 - 130	54 - 141	
Methyl-t-Butyl Ether (MTBE)	90.1	97.82		ug/m3	109	70 - 130	60 - 140	
n-Butylbenzene	137	146.8		ug/m3	107	64 - 130	53 - 141	
o-Xylene	109	116.7		ug/m3	108	68 - 130	58 - 140	
m,p-Xylene	217	233.9		ug/m3	108	70 - 130	60 - 140	
sec-Butylbenzene	137	144.4		ug/m3	105	67 - 130	57 - 141	
Styrene	106	126.2		ug/m3	119	70 - 130	60 - 140	
trans-1,2-Dichloroethene	99.1	94.04		ug/m3	95	70 - 130	60 - 140	
trans-1,3-Dichloropropene	113	130.2		ug/m3	115	66 - 142	53 - 155	
Tert-amyl-methyl ether (TAME)	104	110.3		ug/m3	106	70 - 130	60 - 140	
tert-Butyl alcohol (TBA)	152	158.3		ug/m3	104	65 - 132	54 - 143	
tert-Butylbenzene	137	134.5		ug/m3	98	70 - 130	60 - 140	
Tetrachloroethene	170	162.3		ug/m3	96	70 - 130	60 - 140	
Toluene	94.2	99.95		ug/m3	106	70 - 130	60 - 140	
Trichloroethene	134	134.5		ug/m3	100	69 - 130	59 - 140	
Trichlorofluoromethane	140	140.6		ug/m3	100	62 - 139	49 - 152	
Vinyl acetate	88.0	103.3		ug/m3	117	64 - 139	52 - 152	
Vinyl chloride	63.9	66.60		ug/m3	104	65 - 130	54 - 141	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
61	3	2

ME = Marginal Exceedance

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Air - GC/MS VOA

Analysis Batch: 634493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248019-1	SV-3-10	Total/NA	Air	TO-15	
570-248019-2	SV-3-5	Total/NA	Air	TO-15	
570-248019-3	Dupe	Total/NA	Air	TO-15	
570-248019-4	SV-4-10	Total/NA	Air	TO-15	
570-248019-5	SV-4-5	Total/NA	Air	TO-15	
570-248019-6	SV-2-10	Total/NA	Air	TO-15	
570-248019-7	SV-2-5	Total/NA	Air	TO-15	
570-248019-9	SV-5-5	Total/NA	Air	TO-15	
570-248019-11	SV-1-5	Total/NA	Air	TO-15	
MB 570-634493/7	Method Blank	Total/NA	Air	TO-15	
LCS 570-634493/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-634493/5	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 635074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248019-1 - DL	SV-3-10	Total/NA	Air	TO-15	
570-248019-2 - RA	SV-3-5	Total/NA	Air	TO-15	
570-248019-3 - RA	Dupe	Total/NA	Air	TO-15	
570-248019-4 - RA	SV-4-10	Total/NA	Air	TO-15	
570-248019-5 - RA	SV-4-5	Total/NA	Air	TO-15	
570-248019-6 - RA	SV-2-10	Total/NA	Air	TO-15	
570-248019-7 - RA	SV-2-5	Total/NA	Air	TO-15	
570-248019-8	SV-5-10	Total/NA	Air	TO-15	
570-248019-10	SV-1-10	Total/NA	Air	TO-15	
570-248019-11 - RA	SV-1-5	Total/NA	Air	TO-15	
MB 570-635074/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-635074/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-635074/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-3-10

Lab Sample ID: 570-248019-1

Date Collected: 09/26/25 08:39
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 17:47	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	DL	5.46875	250 mL	250 mL	635074	10/03/25 18:44	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-3-5

Lab Sample ID: 570-248019-2

Date Collected: 09/26/25 09:03
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 18:30	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/03/25 19:25	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: Dupe

Lab Sample ID: 570-248019-3

Date Collected: 09/26/25 09:15
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 19:12	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/03/25 20:06	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-4-10

Lab Sample ID: 570-248019-4

Date Collected: 09/26/25 09:47
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 19:55	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/03/25 20:48	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-4-5

Lab Sample ID: 570-248019-5

Date Collected: 09/26/25 10:05
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 20:45	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/03/25 21:41	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-2-10
Lab Sample ID: 570-248019-6
Date Collected: 09/26/25 10:29
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 21:31	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/03/25 22:29	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-2-5
Lab Sample ID: 570-248019-7
Date Collected: 09/26/25 10:46
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 22:15	USQD	EET CAL 4
	Instrument ID: GCMSII									
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/03/25 23:12	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-5-10
Lab Sample ID: 570-248019-8
Date Collected: 09/26/25 11:57
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	635074	10/03/25 23:59	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-5-5
Lab Sample ID: 570-248019-9
Date Collected: 09/26/25 12:12
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/02/25 23:49	USQD	EET CAL 4
	Instrument ID: GCMSII									

Client Sample ID: SV-1-10
Lab Sample ID: 570-248019-10
Date Collected: 09/26/25 13:06
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	635074	10/04/25 00:39	YY9P	EET CAL 4
	Instrument ID: GCMSNN									

Client Sample ID: SV-1-5
Lab Sample ID: 570-248019-11
Date Collected: 09/26/25 13:26
Matrix: Air
Date Received: 09/26/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	250 mL	250 mL	634493	10/03/25 01:23	USQD	EET CAL 4
	Instrument ID: GCMSII									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Client Sample ID: SV-1-5
Date Collected: 09/26/25 13:26
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248019-11
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	RA	1	250 mL	250 mL	635074	10/04/25 01:23	YY9P	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,1,1-Trichloroethane
TO-15		Air	1,1,2,2-Tetrachloroethane
TO-15		Air	1,1,2-Trichloro-1,2,2-trifluoroethane
TO-15		Air	1,1,2-Trichloroethane
TO-15		Air	1,1-Dichloroethane
TO-15		Air	1,1-Dichloroethene
TO-15		Air	1,1-Difluoroethane
TO-15		Air	1,2,4-Trichlorobenzene
TO-15		Air	1,2,4-Trimethylbenzene
TO-15		Air	1,2-Dibromo-3-Chloropropane
TO-15		Air	1,2-Dibromoethane
TO-15		Air	1,2-Dichlorobenzene
TO-15		Air	1,2-Dichloroethane
TO-15		Air	1,2-Dichloropropane
TO-15		Air	1,3,5-Trimethylbenzene
TO-15		Air	1,3-Dichlorobenzene
TO-15		Air	1,4-Dichlorobenzene
TO-15		Air	2-Butanone (MEK)
TO-15		Air	2-Hexanone
TO-15		Air	4-Ethyltoluene
TO-15		Air	4-Methyl-2-pentanone (MIBK)
TO-15		Air	Acetone
TO-15		Air	Benzene
TO-15		Air	Benzyl chloride
TO-15		Air	Bromodichloromethane
TO-15		Air	Bromoform
TO-15		Air	Bromomethane
TO-15		Air	Carbon disulfide
TO-15		Air	Carbon tetrachloride
TO-15		Air	Chlorobenzene
TO-15		Air	Chloroethane
TO-15		Air	Chloroform
TO-15		Air	Chloromethane
TO-15		Air	cis-1,2-Dichloroethene
TO-15		Air	cis-1,3-Dichloropropene
TO-15		Air	Dibromochloromethane
TO-15		Air	Dichlorodifluoromethane
TO-15		Air	Dichlorotetrafluoroethane
TO-15		Air	Di-isopropyl ether (DIPE)
TO-15		Air	Ethylbenzene
TO-15		Air	Ethyl-t-butyl ether (ETBE)
TO-15		Air	Hexachloro-1,3-butadiene
TO-15		Air	Isopropyl alcohol
TO-15		Air	m,p-Xylene
TO-15		Air	Methylene Chloride

Accreditation/Certification Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Laboratory: Eurofins Calscience (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	Methyl-t-Butyl Ether (MTBE)
TO-15		Air	n-Butylbenzene
TO-15		Air	o-Xylene
TO-15		Air	sec-Butylbenzene
TO-15		Air	Styrene
TO-15		Air	Tert-amyl-methyl ether (TAME)
TO-15		Air	tert-Butyl alcohol (TBA)
TO-15		Air	tert-Butylbenzene
TO-15		Air	Tetrachloroethene
TO-15		Air	Toluene
TO-15		Air	trans-1,2-Dichloroethene
TO-15		Air	trans-1,3-Dichloropropene
TO-15		Air	Trichloroethene
TO-15		Air	Trichlorofluoromethane
TO-15		Air	Vinyl acetate
TO-15		Air	Vinyl chloride

Oregon	NELAP	4175	02-02-26

Method Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job ID: 570-248019-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-248019-1	SV-3-10	Air	09/26/25 08:39	09/26/25 14:34	Air Canister (1-Liter) #LC858
570-248019-2	SV-3-5	Air	09/26/25 09:03	09/26/25 14:34	Air Canister (1-Liter) #LC127
570-248019-3	Dupe	Air	09/26/25 09:15	09/26/25 14:34	Air Canister (1-Liter) #LC1016
570-248019-4	SV-4-10	Air	09/26/25 09:47	09/26/25 14:34	Air Canister (1-Liter) #LC035
570-248019-5	SV-4-5	Air	09/26/25 10:05	09/26/25 14:34	Air Canister (1-Liter) #LC1212
570-248019-6	SV-2-10	Air	09/26/25 10:29	09/26/25 14:34	Air Canister (1-Liter) #LC955
570-248019-7	SV-2-5	Air	09/26/25 10:46	09/26/25 14:34	Air Canister (1-Liter) #LC099
570-248019-8	SV-5-10	Air	09/26/25 11:57	09/26/25 14:34	Air Canister (1-Liter) #LC271
570-248019-9	SV-5-5	Air	09/26/25 12:12	09/26/25 14:34	Air Canister (1-Liter) #LC1027
570-248019-10	SV-1-10	Air	09/26/25 13:06	09/26/25 14:34	Air Canister (1-Liter) #SLC039
570-248019-11	SV-1-5	Air	09/26/25 13:26	09/26/25 14:34	Air Canister (1-Liter) #LC298

eurofins | Calscience

2841 Dow Avenue, Suite 100, Tustin, CA 92780 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-248019 Chain of Custody

Loc: 570
248019

AIR CHAIN OF CUSTODY RECORD

DATE: 9-26-25

PAGE: 1 OF 1

LABORATORY CLIENT: Padre Associates	CLIENT PROJECT NAME / NUMBER: Tustin USD/2501-0092	P.O. NO.: 2501-0092
ADDRESS: 350 University Avenue, Suite 250	PROJECT ADDRESS: Legacy Rd.	LAB CONTACT OR QUOTE NO.: ECI Project #57026774
CITY: Sacramento STATE: CA ZIP: 95825	CITY: Tustin STATE: CA ZIP: 92782	SAMPLER(S): (PRINT) Will WYATT/Lauren Alamillo
TEL: 916-952-5421 E-MAIL: achurchill@padreinc.com	PROJECT CONTACT: Alan Churchill	

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ EDD ☐ UNITS _____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment: Media ID #	Canister Size 6L or 1L	Flow Controller ID #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	VOCs (TO-15 List)	Isopropyl Alcohol
1	SV-3-10		SV	LC858	1L	A452	9-26-25	828	30	9-26-25	0839	2	✓	✓
2	SV-3-5		SV	LC127		A454		0855	31		0903	3	✓	✓
3	Dupe		SV	LC1016		A237		0906	32		0915	2	✓	✓
4	SV-4-10		SV	LC035		A199		0939	30		0947	2	✓	✓
5	SV-4-5		SV	LC1212		A347		0959	29		1005	3	✓	✓
6	SV-2-10		SV	LC955		A195		1022	28		1029	2	✓	✓
7	SV-2-5		SV	LC099		A317		1039	31		1046	2	✓	✓
8	SV-5-10		SV	LC271		A395		1146	31		1157	3	✓	✓
9	SV-5-5		SV	LC1027		A513		1206	30		1212	2	✓	✓
10	SV-1-10		SV	SLC039		A158		1300	29		1306	3	✓	✓
11	SV-1-5		SV	LC298		A114		1319	31		1326	2	✓	✓

Relinquished by: (Signature) Lauren Alamillo	Received by: (Signature/Affiliation) EC	Date: 9-26-25	Time: 14:34
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

Login Sample Receipt Checklist

Client: Padre Associates, Inc.

Job Number: 570-248019-1

Login Number: 248019

List Source: Eurofins Calscience

List Number: 1

Creator: Murillo, Jesus

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Summa Canister Dilution Worksheet

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job No.: 570-248019-1

Lab Sample ID	Canister Volume (L)	Presampling Pressure ("Hg)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
570-248019-1	1	-29.5	-0.6	0.98	0.98	-0.294692	0.98	0.98		1.00	1.00	AIR MG 6	09/30/25 11:04	YY9P
570-248019-1	1	-29.5	-7	0.77	0.77	5	1.34	1.34		1.75	1.75	air mg 6	10/03/25 15:20	YY9P
570-248019-2	1	-29.5	-1.4	0.95	0.95	-0.687616	0.95	0.95		1.00	1.00	AIR MG 6	09/30/25 11:05	YY9P
570-248019-3	1	-29.5	-0.4	0.99	0.99	-0.196462	0.99	0.99		1.00	1.00	AIR MG 6	09/30/25 11:05	YY9P
570-248019-4	1	-29.5	-1.8	0.94	0.94	-0.884077	0.94	0.94		1.00	1.00	AIR MG 6	09/30/25 11:05	YY9P
570-248019-5	1	-29.5	-5.8	0.81	0.81	-2.84869	0.81	0.81		1.00	1.00	AIR MG 6	09/30/25 11:05	YY9P
570-248019-6	1	-29.5	-4.8	0.84	0.84	-2.35754	0.84	0.84		1.00	1.00	AIR MG 6	09/30/25 11:05	YY9P
570-248019-7	1	-29.5	-2.8	0.91	0.91	-1.37523	0.91	0.91		1.00	1.00	AIR MG 6	09/30/25 11:06	YY9P
570-248019-8	1	-29.5	-5.6	0.81	0.81	-2.75046	0.81	0.81		1.00	1.00	AIR MG 6	09/30/25 11:06	YY9P
570-248019-9	1	-29.5	-3.6	0.88	0.88	-1.76815	0.88	0.88		1.00	1.00	AIR MG 6	09/30/25 11:06	YY9P
570-248019-10	1	-29.5	-6	0.80	0.80	-2.94692	0.80	0.80		1.00	1.00	AIR MG 6	09/30/25 11:06	YY9P
570-248019-11	1	-29.5	-1.6	0.95	0.95	-0.785847	0.95	0.95		1.00	1.00	AIR MG 6	09/30/25 11:06	YY9P

Summa Canister Dilution Worksheet

Client: Padre Associates, Inc.
Project/Site: Tustin USD/2501-0092

Job No.: 570-248019-1

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg

Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alan Churchill
Padre Associates, Inc.
350 University Ave Suite 250
Sacramento, California 95827

Generated 10/8/2025 10:59:03 AM

JOB DESCRIPTION

Tustin USD-Proposed District Offices
Legacy Road, Tustin CA

JOB NUMBER

570-248388-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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10/8/2025 10:59:03 AM

Authorized for release by
Rossina Tomova, Project Manager I
Rossina.Tomova@et.eurofinsus.com
(657)210-6367

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Definitions/Glossary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-248388-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/26/2025 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-634680. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
Method 1633_Final: The following samples GW-1 (570-248388-1), GW-2 (570-248388-2), GW-3 (570-248388-3), GW-4 (570-248388-4), GW-5 (570-248388-5) and DUPE (570-248388-6) with elevated total suspended solids (TSS) in the sample containers were fortified with Extracted Internal Standards (EIS), equilibrated, and centrifuged. The aqueous phase was separated and then extracted using Solid Phase Extraction (SPE). A rinse of the solid residue was added to the aqueous sample prior to extraction. Potential outcomes of this approach include elevated reporting limits and poor EIS recoveries that may preferentially sorb to the particulates leading to qualified QC in the final results.

Method 1633_Final: The low level continuing calibration verification (CCVL) associated with batch 320-879210 recovered above the upper control limit for Nonafluoro-3,6-dioxaheptanoic acid (NFDHA). The samples and method blank (MB) associated with this CCVL were non-detects, the low level laboratory control sample, laboratory control sample, and laboratory control sample duplicate (LLCS/LCS/LCSD) were within control limits for the affected analyte; therefore, the data have been reported: GW-1 (570-248388-1), GW-2 (570-248388-2), GW-3 (570-248388-3), GW-4 (570-248388-4), GW-5 (570-248388-5), DUPE (570-248388-6), (CCVL 320-879210/2), (LCS 320-878742/3-A), (LCSD 320-878742/4-A), (LLCS 320-878742/2-A) and (MB 320-878742/1-A).

Method 1633_Final: One or more sample extract(s) was diluted (as indicated in the report) due to high target analyte concentration(s) indicated by the screening analysis. Elevated reporting limits (RLs) are provided. Unless otherwise noted, the dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 1633_Final: The low level continuing calibration verification (CCVL) associated with batch 320-879210 recovered above the upper control limit for Perfluorohexanoic acid (PFHxA). The method blank (MB) associated with this CCVL was non-detect, the low level laboratory control sample, laboratory control sample, and laboratory control sample duplicate (LLCS/LCS/LCSD) were within control limits for the affected analyte; therefore, the data have been reported: (CCVL 320-879210/2), (LCS 320-878742/3-A), (LCSD 320-878742/4-A), (LLCS 320-878742/2-A) and (MB 320-878742/1-A).

Method 1633_Final: One or more sample extract(s) was diluted (as indicated in the report) due to high target analyte concentration(s). Elevated reporting limits (RLs) are provided. Unless otherwise noted, the dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-1 — Lab Sample ID: 570-248388-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J	10	7.4	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	410		36	8.9	ng/L	10		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	870		18	4.5	ng/L	10		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	230		18	4.5	ng/L	10		1633	Total/NA
Perfluorooctanoic acid (PFOA)	410		18	4.5	ng/L	10		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	610		18	4.8	ng/L	10		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	450		18	4.5	ng/L	10		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1500		18	4.5	ng/L	10		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	24		18	4.5	ng/L	10		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	220		18	4.5	ng/L	10		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	64		36	8.9	ng/L	10		1633	Total/NA
Perfluorohexanoic acid (PFHxA) - RA	800		18	4.5	ng/L	10		1633	Total/NA

Client Sample ID: GW-2 — Lab Sample ID: 570-248388-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	140		4.1	1.0	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	210		2.0	0.51	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	63		2.0	0.51	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	310		2.0	0.51	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	6.3		2.0	0.51	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.98	J	2.0	0.51	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	150		2.0	0.55	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	82		2.0	0.51	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	320		2.0	0.51	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.4		2.0	0.51	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	340		2.0	0.51	ng/L	1		1633	Total/NA
Perfluorononanesulfonic acid (PFNS)	0.63	J	2.0	0.51	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	130		4.1	1.0	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	15		4.1	1.0	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	1.3	J	2.0	0.51	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA) - RA	180		2.0	0.51	ng/L	1		1633	Total/NA

Client Sample ID: GW-3 — Lab Sample ID: 570-248388-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.25	J	0.50	0.24	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	2100		36	9.0	ng/L	10		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	4100		18	4.5	ng/L	10		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1100		18	4.5	ng/L	10		1633	Total/NA
Perfluorooctanoic acid (PFOA)	3000		18	4.5	ng/L	10		1633	Total/NA
Perfluorononanoic acid (PFNA)	95		18	4.5	ng/L	10		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1700		18	4.9	ng/L	10		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1200		18	4.5	ng/L	10		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	130		18	4.5	ng/L	10		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-3 (Continued)

Lab Sample ID: 570-248388-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1300		36	9.0	ng/L	10		1633	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	3900		36	9.0	ng/L	20		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	6800		36	9.0	ng/L	20		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	5000		36	9.0	ng/L	20		1633	Total/NA

Client Sample ID: GW-4

Lab Sample ID: 570-248388-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14		10	7.4	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	960		36	9.0	ng/L	10		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	1800		18	4.5	ng/L	10		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	390		18	4.5	ng/L	10		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1300		18	4.5	ng/L	10		1633	Total/NA
Perfluorononanoic acid (PFNA)	36		18	4.5	ng/L	10		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1000		18	4.9	ng/L	10		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	690		18	4.5	ng/L	10		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2500		18	4.5	ng/L	10		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	59		18	4.5	ng/L	10		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	950		18	4.5	ng/L	10		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	360		36	9.0	ng/L	10		1633	Total/NA
Perfluorohexanoic acid (PFHxA) - RA	1700		18	4.5	ng/L	10		1633	Total/NA

Client Sample ID: GW-5

Lab Sample ID: 570-248388-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	79		3.7	0.92	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	130		1.8	0.46	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	35		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	220		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	9.7		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.75	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	70		1.8	0.50	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	42		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	230		1.8	0.46	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	6.0		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	150		1.8	0.46	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	480		3.7	0.92	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.3	J	3.7	0.92	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.99	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA) - RA	94		1.8	0.46	ng/L	1		1633	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 570-248388-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	390		34	8.6	ng/L	10		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: DUPE (Continued)

Lab Sample ID: 570-248388-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	970		17	4.3	ng/L	10		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	220		17	4.3	ng/L	10		1633	Total/NA
Perfluorooctanoic acid (PFOA)	390		17	4.3	ng/L	10		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	660		17	4.6	ng/L	10		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	470		17	4.3	ng/L	10		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1600		17	4.3	ng/L	10		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	27		17	4.3	ng/L	10		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	230		17	4.3	ng/L	10		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	56		34	8.6	ng/L	10		1633	Total/NA
Perfluorohexanoic acid (PFHxA) - RA	720		17	4.3	ng/L	10		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-1

Date Collected: 09/26/25 12:27
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 21:57	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 21:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 21:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 21:57	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 21:57	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 21:57	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 21:57	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 21:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 21:57	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 21:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 21:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 21:57	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 21:57	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 21:57	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 21:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 21:57	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 21:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 21:57	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 21:57	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 21:57	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 21:57	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 21:57	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 21:57	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 21:57	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 21:57	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 21:57	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 21:57	1
Acetone	**8.9**	**J**	10	7.4	ug/L			10/02/25 21:57	1
Benzene	ND		0.50	0.24	ug/L			10/02/25 21:57	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 21:57	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 21:57	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 21:57	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 21:57	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 21:57	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 21:57	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 21:57	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 21:57	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 21:57	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 21:57	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 21:57	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 21:57	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 21:57	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 21:57	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 21:57	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 21:57	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 21:57	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 21:57	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 21:57	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 21:57	1

Client Sample ID: GW-1

Date Collected: 09/26/25 12:27
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			10/02/25 21:57	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 21:57	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 21:57	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 21:57	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 21:57	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 21:57	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 21:57	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 21:57	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 21:57	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 21:57	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 21:57	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 21:57	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 21:57	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 21:57	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 21:57	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 21:57	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 21:57	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*10/02/25 21:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/02/25 21:57*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/02/25 21:57*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/02/25 21:57*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**410**		36	8.9	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoropentanoic acid (PFPeA)	**870**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoroheptanoic acid (PFHpA)	**230**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorooctanoic acid (PFOA)	**410**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorononanoic acid (PFNA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorodecanoic acid (PFDA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoroundecanoic acid (PFUnA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorododecanoic acid (PFDoA)	ND		18	4.9	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorotridecanoic acid (PFTrDA)	ND		18	5.2	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorotetradecanoic acid (PFTeDA)	ND		18	7.2	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorobutanesulfonic acid (PFBS)	**610**		18	4.8	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoropentanesulfonic acid (PFPeS)	**450**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorohexanesulfonic acid (PFHxS)	**1500**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoroheptanesulfonic acid (PFHpS)	**24**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorooctanesulfonic acid (PFOS)	**220**		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorononanesulfonic acid (PFNS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorodecanesulfonic acid (PFDS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorododecanesulfonic acid (PFDoS)	ND		18	4.7	ng/L		10/02/25 04:02	10/04/25 13:58	10

Client Sample ID: GW-1

Date Collected: 09/26/25 12:27
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-1

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		36	8.9	ng/L		10/02/25 04:02	10/04/25 13:58	10
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**64**		36	8.9	ng/L		10/02/25 04:02	10/04/25 13:58	10
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		36	8.9	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluorooctanesulfonamide (PFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		89	22	ng/L		10/02/25 04:02	10/04/25 13:58	10
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		89	22	ng/L		10/02/25 04:02	10/04/25 13:58	10
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		13	3.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	^+	18	6.4	ng/L		10/02/25 04:02	10/04/25 13:58	10
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		18	5.2	ng/L		10/02/25 04:02	10/04/25 13:58	10
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 13:58	10
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		36	8.9	ng/L		10/02/25 04:02	10/04/25 13:58	10
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		89	22	ng/L		10/02/25 04:02	10/04/25 13:58	10
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		89	22	ng/L		10/02/25 04:02	10/04/25 13:58	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.2*	*3	*5 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C5 PFPeA	*94.1*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C5 PFHxA	*84.7*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C4 PFHpA	*100*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C8 PFOA	*77.9*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C9 PFNA	*86.1*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C6 PFDA	*91.1*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C7 PFUnA	*80.5*	*3	*30 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C2 PFDoA	*63.1*	*3	*10 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C2 PFTeDA	*35.4*	*3	*10 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C3 PFBS	*86.1*	*3	*40 - 135*	*10/02/25 04:02*	*10/04/25 13:58*	*10*
13C3 PFHxS	*87.6*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 13:58*	*10*

Client Sample ID: GW-1 Lab Sample ID: 570-248388-1

Date Collected: 09/26/25 12:27 **Matrix: Water**
Date Received: 09/26/25 14:34

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	92.1	*3	40 - 130	10/02/25 04:02	10/04/25 13:58	10
13C8 FOSA	89.9	*3	40 - 130	10/02/25 04:02	10/04/25 13:58	10
d3-NMeFOSAA	94.8	*3	40 - 170	10/02/25 04:02	10/04/25 13:58	10
d5-NEtFOSAA	84.2	*3	25 - 135	10/02/25 04:02	10/04/25 13:58	10
13C2 4:2 FTS	101	*3	40 - 200	10/02/25 04:02	10/04/25 13:58	10
13C2 6:2 FTS	99.1	*3	40 - 200	10/02/25 04:02	10/04/25 13:58	10
13C2 8:2 FTS	95.5	*3	40 - 300	10/02/25 04:02	10/04/25 13:58	10
13C3 HFPO-DA	92.3	*3	40 - 130	10/02/25 04:02	10/04/25 13:58	10
d7-N-MeFOSE-M	52.4	*3	10 - 130	10/02/25 04:02	10/04/25 13:58	10
d9-N-EtFOSE-M	45.5	*3	10 - 130	10/02/25 04:02	10/04/25 13:58	10
d5-NEtPFOSA	46.6	*3	10 - 130	10/02/25 04:02	10/04/25 13:58	10
d3-NMePFOSA	62.0	*3	10 - 130	10/02/25 04:02	10/04/25 13:58	10

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	800		18	4.5	ng/L		10/02/25 04:02	10/05/25 18:49	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	91.1	*3	40 - 130	10/02/25 04:02	10/05/25 18:49	10

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-2
Date Collected: 09/25/25 14:15
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 22:18	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 22:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 22:18	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 22:18	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 22:18	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 22:18	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 22:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 22:18	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 22:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 22:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 22:18	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 22:18	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 22:18	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 22:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 22:18	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 22:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 22:18	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 22:18	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 22:18	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 22:18	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 22:18	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 22:18	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 22:18	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 22:18	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 22:18	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 22:18	1
Acetone	ND		10	7.4	ug/L			10/02/25 22:18	1
Benzene	ND		0.50	0.24	ug/L			10/02/25 22:18	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 22:18	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 22:18	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 22:18	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 22:18	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 22:18	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 22:18	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 22:18	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 22:18	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 22:18	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 22:18	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 22:18	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 22:18	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 22:18	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 22:18	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 22:18	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 22:18	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 22:18	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 22:18	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 22:18	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 22:18	1

Client Sample ID: GW-2

Date Collected: 09/25/25 14:15
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			10/02/25 22:18	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 22:18	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 22:18	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 22:18	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 22:18	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 22:18	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 22:18	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 22:18	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 22:18	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 22:18	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 22:18	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 22:18	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 22:18	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 22:18	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 22:18	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 22:18	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 22:18	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*10/02/25 22:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/02/25 22:18*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*10/02/25 22:18*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/02/25 22:18*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**140**		4.1	1.0	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoropentanoic acid (PFPeA)	**210**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoroheptanoic acid (PFHpA)	**63**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorooctanoic acid (PFOA)	**310**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorononanoic acid (PFNA)	**6.3**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorodecanoic acid (PFDA)	**0.98**	**J**	2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.56	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.59	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.82	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorobutanesulfonic acid (PFBS)	**150**		2.0	0.55	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoropentanesulfonic acid (PFPeS)	**82**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorohexanesulfonic acid (PFHxS)	**320**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoroheptanesulfonic acid (PFHpS)	**7.4**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorooctanesulfonic acid (PFOS)	**340**		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorononanesulfonic acid (PFNS)	**0.63**	**J**	2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.54	ng/L		10/02/25 04:02	10/04/25 14:14	1

Client Sample ID: GW-2
Date Collected: 09/25/25 14:15
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-2
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.1	1.0	ng/L		10/02/25 04:02	10/04/25 14:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**130**		4.1	1.0	ng/L		10/02/25 04:02	10/04/25 14:14	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	**15**		4.1	1.0	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluorooctanesulfonamide (PFOSA)	**1.3**	**J**	2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 14:14	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 14:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.40	ng/L		10/02/25 04:02	10/04/25 14:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	^+	2.0	0.73	ng/L		10/02/25 04:02	10/04/25 14:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.59	ng/L		10/02/25 04:02	10/04/25 14:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.51	ng/L		10/02/25 04:02	10/04/25 14:14	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.1	1.0	ng/L		10/02/25 04:02	10/04/25 14:14	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 14:14	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 14:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81.7*		*5 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C5 PFPeA	*78.9*		*40 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C5 PFHxA	*96.7*		*40 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C4 PFHpA	*98.7*		*40 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C8 PFOA	*87.0*		*40 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C9 PFNA	*80.8*		*40 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C6 PFDA	*83.6*		*40 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C7 PFUnA	*66.5*		*30 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C2 PFDoA	*39.2*		*10 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C2 PFTeDA	*13.1*		*10 - 130*	*10/02/25 04:02*	*10/04/25 14:14*	*1*
13C3 PFBS	*83.0*		*40 - 135*	*10/02/25 04:02*	*10/04/25 14:14*	*1*

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-2
Date Collected: 09/25/25 14:15
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-2
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	87.2		40 - 130	10/02/25 04:02	10/04/25 14:14	1
13C8 PFOS	78.7		40 - 130	10/02/25 04:02	10/04/25 14:14	1
13C8 FOSA	73.5		40 - 130	10/02/25 04:02	10/04/25 14:14	1
d3-NMeFOSAA	61.0		40 - 170	10/02/25 04:02	10/04/25 14:14	1
d5-NEtFOSAA	51.0		25 - 135	10/02/25 04:02	10/04/25 14:14	1
13C2 4:2 FTS	74.4		40 - 200	10/02/25 04:02	10/04/25 14:14	1
13C2 6:2 FTS	66.6		40 - 200	10/02/25 04:02	10/04/25 14:14	1
13C2 8:2 FTS	81.3		40 - 300	10/02/25 04:02	10/04/25 14:14	1
13C3 HFPO-DA	101		40 - 130	10/02/25 04:02	10/04/25 14:14	1
d7-N-MeFOSE-M	32.1		10 - 130	10/02/25 04:02	10/04/25 14:14	1
d9-N-EtFOSE-M	27.0		10 - 130	10/02/25 04:02	10/04/25 14:14	1
d5-NEtPFOSA	27.1		10 - 130	10/02/25 04:02	10/04/25 14:14	1
d3-NMePFOSA	37.4		10 - 130	10/02/25 04:02	10/04/25 14:14	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	180		2.0	0.51	ng/L		10/02/25 04:02	10/05/25 19:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	91.0		40 - 130	10/02/25 04:02	10/05/25 19:05	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-3
Date Collected: 09/25/25 11:05
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 22:40	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 22:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 22:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 22:40	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 22:40	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 22:40	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 22:40	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 22:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 22:40	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 22:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 22:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 22:40	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 22:40	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 22:40	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 22:40	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 22:40	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 22:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 22:40	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 22:40	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 22:40	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 22:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 22:40	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 22:40	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 22:40	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 22:40	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 22:40	1
Acetone	ND		10	7.4	ug/L			10/02/25 22:40	1
Benzene	**0.25**	**J**	0.50	0.24	ug/L			10/02/25 22:40	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 22:40	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 22:40	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 22:40	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 22:40	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 22:40	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 22:40	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 22:40	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 22:40	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 22:40	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 22:40	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 22:40	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 22:40	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 22:40	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 22:40	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 22:40	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 22:40	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 22:40	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 22:40	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 22:40	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 22:40	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-3

Date Collected: 09/25/25 11:05
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			10/02/25 22:40	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 22:40	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 22:40	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 22:40	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 22:40	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 22:40	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 22:40	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 22:40	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 22:40	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 22:40	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 22:40	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 22:40	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 22:40	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 22:40	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 22:40	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 22:40	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 22:40	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*10/02/25 22:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/02/25 22:40*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*10/02/25 22:40*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/02/25 22:40*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2100**		36	9.0	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoropentanoic acid (PFPeA)	**4100**		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoroheptanoic acid (PFHpA)	**1100**		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorooctanoic acid (PFOA)	**3000**		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorononanoic acid (PFNA)	**95**		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorodecanoic acid (PFDA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoroundecanoic acid (PFUnA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorododecanoic acid (PFDoA)	ND		18	5.0	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorotridecanoic acid (PFTrDA)	ND		18	5.2	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorotetradecanoic acid (PFTeDA)	ND		18	7.3	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorobutanesulfonic acid (PFBS)	**1700**		18	4.9	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoropentanesulfonic acid (PFPeS)	**1200**		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoroheptanesulfonic acid (PFHpS)	**130**		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorononanesulfonic acid (PFNS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorodecanesulfonic acid (PFDS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorododecanesulfonic acid (PFDoS)	ND		18	4.8	ng/L		10/02/25 04:02	10/04/25 14:31	10
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		36	9.0	ng/L		10/02/25 04:02	10/04/25 14:31	10
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**1300**		36	9.0	ng/L		10/02/25 04:02	10/04/25 14:31	10

Client Sample ID: GW-3

Date Collected: 09/25/25 11:05
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-3

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		36	9.0	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluorooctanesulfonamide (PFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 14:31	10
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 14:31	10
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		14	3.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	^+	18	6.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		18	5.2	ng/L		10/02/25 04:02	10/04/25 14:31	10
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 14:31	10
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		36	9.0	ng/L		10/02/25 04:02	10/04/25 14:31	10
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 14:31	10
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 14:31	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79.0*	**3*	*5 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C5 PFPeA	*84.7*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C5 PFHxA	*93.5*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C4 PFHpA	*94.5*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C8 PFOA	*97.7*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C9 PFNA	*82.4*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C6 PFDA	*87.7*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C7 PFUnA	*77.6*	**3*	*30 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C2 PFDoA	*51.4*	**3*	*10 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C2 PFTeDA	*24.7*	**3*	*10 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C3 PFBS	*80.1*	**3*	*40 - 135*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C3 PFHxS	*81.5*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C8 PFOS	*82.4*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
13C8 FOSA	*78.0*	**3*	*40 - 130*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
d3-NMeFOSAA	*77.4*	**3*	*40 - 170*	*10/02/25 04:02*	*10/04/25 14:31*	*10*
d5-NEtFOSAA	*69.6*	**3*	*25 - 135*	*10/02/25 04:02*	*10/04/25 14:31*	*10*

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-3
Date Collected: 09/25/25 11:05
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-3
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 4:2 FTS	118	*3	40 - 200	10/02/25 04:02	10/04/25 14:31	10
13C2 6:2 FTS	89.8	*3	40 - 200	10/02/25 04:02	10/04/25 14:31	10
13C2 8:2 FTS	87.9	*3	40 - 300	10/02/25 04:02	10/04/25 14:31	10
13C3 HFPO-DA	94.3	*3	40 - 130	10/02/25 04:02	10/04/25 14:31	10
d7-N-MeFOSE-M	45.3	*3	10 - 130	10/02/25 04:02	10/04/25 14:31	10
d9-N-EtFOSE-M	39.2	*3	10 - 130	10/02/25 04:02	10/04/25 14:31	10
d5-NEtPFOSA	41.9	*3	10 - 130	10/02/25 04:02	10/04/25 14:31	10
d3-NMePFOSA	55.4	*3	10 - 130	10/02/25 04:02	10/04/25 14:31	10

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	3900		36	9.0	ng/L		10/02/25 04:02	10/07/25 17:47	20
Perfluorohexanesulfonic acid (PFHxS)	6800		36	9.0	ng/L		10/02/25 04:02	10/07/25 17:47	20
Perfluorooctanesulfonic acid (PFOS)	5000		36	9.0	ng/L		10/02/25 04:02	10/07/25 17:47	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	89.5	*3	40 - 130	10/02/25 04:02	10/07/25 17:47	20
13C3 PFHxS	78.6	*3	40 - 130	10/02/25 04:02	10/07/25 17:47	20
13C8 PFOS	73.3	*3	40 - 130	10/02/25 04:02	10/07/25 17:47	20

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-4
Date Collected: 09/25/25 12:50
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 23:01	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 23:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 23:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 23:01	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 23:01	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 23:01	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 23:01	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 23:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 23:01	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 23:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 23:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 23:01	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 23:01	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 23:01	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 23:01	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 23:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 23:01	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:01	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 23:01	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 23:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 23:01	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 23:01	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 23:01	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 23:01	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 23:01	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 23:01	1
Acetone	**14**		10	7.4	ug/L			10/02/25 23:01	1
Benzene	ND		0.50	0.24	ug/L			10/02/25 23:01	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 23:01	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 23:01	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 23:01	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 23:01	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 23:01	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 23:01	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 23:01	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 23:01	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 23:01	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:01	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 23:01	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 23:01	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 23:01	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 23:01	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 23:01	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 23:01	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 23:01	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 23:01	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 23:01	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 23:01	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-4
Date Collected: 09/25/25 12:50
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			10/02/25 23:01	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 23:01	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 23:01	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 23:01	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 23:01	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 23:01	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 23:01	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 23:01	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 23:01	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 23:01	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 23:01	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 23:01	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 23:01	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 23:01	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 23:01	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 23:01	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 23:01	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*10/02/25 23:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/02/25 23:01*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/02/25 23:01*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/02/25 23:01*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**960**		36	9.0	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoropentanoic acid (PFPeA)	**1800**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoroheptanoic acid (PFHpA)	**390**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorooctanoic acid (PFOA)	**1300**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorononanoic acid (PFNA)	**36**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorodecanoic acid (PFDA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoroundecanoic acid (PFUnA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorododecanoic acid (PFDoA)	ND		18	5.0	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorotridecanoic acid (PFTrDA)	ND		18	5.2	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorotetradecanoic acid (PFTeDA)	ND		18	7.3	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorobutanesulfonic acid (PFBS)	**1000**		18	4.9	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoropentanesulfonic acid (PFPeS)	**690**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorohexanesulfonic acid (PFHxS)	**2500**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoroheptanesulfonic acid (PFHpS)	**59**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorooctanesulfonic acid (PFOS)	**950**		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorononanesulfonic acid (PFNS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorodecanesulfonic acid (PFDS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorododecanesulfonic acid (PFDoS)	ND		18	4.8	ng/L		10/02/25 04:02	10/04/25 15:20	10

Client Sample ID: GW-4

Date Collected: 09/25/25 12:50
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-4

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		36	9.0	ng/L		10/02/25 04:02	10/04/25 15:20	10
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**360**		36	9.0	ng/L		10/02/25 04:02	10/04/25 15:20	10
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		36	9.0	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluorooctanesulfonamide (PFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 15:20	10
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 15:20	10
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		14	3.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	^+	18	6.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		18	5.2	ng/L		10/02/25 04:02	10/04/25 15:20	10
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		18	4.5	ng/L		10/02/25 04:02	10/04/25 15:20	10
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		36	9.0	ng/L		10/02/25 04:02	10/04/25 15:20	10
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 15:20	10
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		90	23	ng/L		10/02/25 04:02	10/04/25 15:20	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*74.6*	*3	*5 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C5 PFPeA	*77.0*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C5 PFHxA	*95.4*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C4 PFHpA	*106*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C8 PFOA	*81.8*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C9 PFNA	*84.7*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C6 PFDA	*82.5*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C7 PFUnA	*72.8*	*3	*30 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C2 PFDoA	*41.7*	*3	*10 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C2 PFTeDA	*25.3*	*3	*10 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C3 PFBS	*83.2*	*3	*40 - 135*	*10/02/25 04:02*	*10/04/25 15:20*	*10*
13C3 PFHxS	*86.9*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:20*	*10*

Client Sample ID: GW-4

Date Collected: 09/25/25 12:50
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-4

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	85.6	*3	40 - 130	10/02/25 04:02	10/04/25 15:20	10
13C8 FOSA	77.4	*3	40 - 130	10/02/25 04:02	10/04/25 15:20	10
d3-NMeFOSAA	79.1	*3	40 - 170	10/02/25 04:02	10/04/25 15:20	10
d5-NEtFOSAA	70.1	*3	25 - 135	10/02/25 04:02	10/04/25 15:20	10
13C2 4:2 FTS	136	*3	40 - 200	10/02/25 04:02	10/04/25 15:20	10
13C2 6:2 FTS	94.7	*3	40 - 200	10/02/25 04:02	10/04/25 15:20	10
13C2 8:2 FTS	78.9	*3	40 - 300	10/02/25 04:02	10/04/25 15:20	10
13C3 HFPO-DA	90.1	*3	40 - 130	10/02/25 04:02	10/04/25 15:20	10
d7-N-MeFOSE-M	36.5	*3	10 - 130	10/02/25 04:02	10/04/25 15:20	10
d9-N-EtFOSE-M	30.9	*3	10 - 130	10/02/25 04:02	10/04/25 15:20	10
d5-NEtPFOSA	31.8	*3	10 - 130	10/02/25 04:02	10/04/25 15:20	10
d3-NMePFOSA	43.1	*3	10 - 130	10/02/25 04:02	10/04/25 15:20	10

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1700		18	4.5	ng/L		10/02/25 04:02	10/05/25 19:38	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	92.3	*3	40 - 130	10/02/25 04:02	10/05/25 19:38	10

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-5
Date Collected: 09/26/25 11:45
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 23:22	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 23:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 23:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 23:22	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 23:22	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 23:22	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 23:22	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 23:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 23:22	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 23:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 23:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 23:22	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 23:22	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 23:22	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 23:22	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 23:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 23:22	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:22	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 23:22	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 23:22	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 23:22	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 23:22	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 23:22	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 23:22	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 23:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 23:22	1
Acetone	ND		10	7.4	ug/L			10/02/25 23:22	1
Benzene	ND		0.50	0.24	ug/L			10/02/25 23:22	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 23:22	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 23:22	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 23:22	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 23:22	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 23:22	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 23:22	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 23:22	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 23:22	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 23:22	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:22	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 23:22	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 23:22	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 23:22	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 23:22	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 23:22	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 23:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 23:22	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 23:22	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 23:22	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 23:22	1

Client Sample ID: GW-5

Date Collected: 09/26/25 11:45
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			10/02/25 23:22	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 23:22	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 23:22	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 23:22	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 23:22	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 23:22	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 23:22	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 23:22	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 23:22	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 23:22	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 23:22	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 23:22	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 23:22	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 23:22	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 23:22	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 23:22	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 23:22	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*10/02/25 23:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/02/25 23:22*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*10/02/25 23:22*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/02/25 23:22*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**79**		3.7	0.92	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoropentanoic acid (PFPeA)	**130**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoroheptanoic acid (PFHpA)	**35**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorooctanoic acid (PFOA)	**220**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorononanoic acid (PFNA)	**9.7**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorodecanoic acid (PFDA)	**0.75**	**J**	1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.51	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.53	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.75	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorobutanesulfonic acid (PFBS)	**70**		1.8	0.50	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoropentanesulfonic acid (PFPeS)	**42**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorohexanesulfonic acid (PFHxS)	**230**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoroheptanesulfonic acid (PFHpS)	**6.0**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorooctanesulfonic acid (PFOS)	**150**		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.49	ng/L		10/02/25 04:02	10/04/25 15:36	1

Client Sample ID: GW-5

Date Collected: 09/26/25 11:45
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-5

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.7	0.92	ng/L		10/02/25 04:02	10/04/25 15:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**480**		3.7	0.92	ng/L		10/02/25 04:02	10/04/25 15:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	**1.3**	**J**	3.7	0.92	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluorooctanesulfonamide (PFOSA)	**0.99**	**J**	1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.2	2.3	ng/L		10/02/25 04:02	10/04/25 15:36	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.2	2.3	ng/L		10/02/25 04:02	10/04/25 15:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.36	ng/L		10/02/25 04:02	10/04/25 15:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	^+	1.8	0.66	ng/L		10/02/25 04:02	10/04/25 15:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.8	0.53	ng/L		10/02/25 04:02	10/04/25 15:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8	0.46	ng/L		10/02/25 04:02	10/04/25 15:36	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.7	0.92	ng/L		10/02/25 04:02	10/04/25 15:36	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.2	2.3	ng/L		10/02/25 04:02	10/04/25 15:36	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.2	2.3	ng/L		10/02/25 04:02	10/04/25 15:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91.2*		*5 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C5 PFPeA	*74.7*		*40 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C5 PFHxA	*106*		*40 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C4 PFHpA	*103*		*40 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C8 PFOA	*97.8*		*40 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C9 PFNA	*91.0*		*40 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C6 PFDA	*85.5*		*40 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C7 PFUnA	*80.0*		*30 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C2 PFDoA	*54.5*		*10 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C2 PFTeDA	*22.8*		*10 - 130*	*10/02/25 04:02*	*10/04/25 15:36*	*1*
13C3 PFBS	*92.8*		*40 - 135*	*10/02/25 04:02*	*10/04/25 15:36*	*1*

Client Sample ID: GW-5

Lab Sample ID: 570-248388-5

Date Collected: 09/26/25 11:45

Matrix: Water

Date Received: 09/26/25 14:34

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	86.2		40 - 130	10/02/25 04:02	10/04/25 15:36	1
13C8 PFOS	90.3		40 - 130	10/02/25 04:02	10/04/25 15:36	1
13C8 FOSA	83.8		40 - 130	10/02/25 04:02	10/04/25 15:36	1
d3-NMeFOSAA	82.8		40 - 170	10/02/25 04:02	10/04/25 15:36	1
d5-NEtFOSAA	73.5		25 - 135	10/02/25 04:02	10/04/25 15:36	1
13C2 4:2 FTS	160		40 - 200	10/02/25 04:02	10/04/25 15:36	1
13C2 6:2 FTS	84.8		40 - 200	10/02/25 04:02	10/04/25 15:36	1
13C2 8:2 FTS	91.1		40 - 300	10/02/25 04:02	10/04/25 15:36	1
13C3 HFPO-DA	101		40 - 130	10/02/25 04:02	10/04/25 15:36	1
d7-N-MeFOSE-M	45.4		10 - 130	10/02/25 04:02	10/04/25 15:36	1
d9-N-EtFOSE-M	39.1		10 - 130	10/02/25 04:02	10/04/25 15:36	1
d5-NEtPFOSA	38.7		10 - 130	10/02/25 04:02	10/04/25 15:36	1
d3-NMePFOSA	53.6		10 - 130	10/02/25 04:02	10/04/25 15:36	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	94		1.8	0.46	ng/L		10/02/25 04:02	10/05/25 20:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	99.6		40 - 130	10/02/25 04:02	10/05/25 20:27	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: DUPE
Date Collected: 09/26/25 00:00
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 23:43	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 23:43	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 23:43	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 23:43	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 23:43	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 23:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 23:43	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 23:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 23:43	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 23:43	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 23:43	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 23:43	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 23:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 23:43	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:43	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 23:43	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 23:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 23:43	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 23:43	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 23:43	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 23:43	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 23:43	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 23:43	1
Acetone	ND		10	7.4	ug/L			10/02/25 23:43	1
Benzene	ND		0.50	0.24	ug/L			10/02/25 23:43	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 23:43	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 23:43	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 23:43	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 23:43	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 23:43	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 23:43	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 23:43	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 23:43	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 23:43	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 23:43	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 23:43	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 23:43	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 23:43	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 23:43	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 23:43	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 23:43	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 23:43	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 23:43	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 23:43	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 23:43	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: DUPE
Date Collected: 09/26/25 00:00
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			10/02/25 23:43	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 23:43	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 23:43	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 23:43	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 23:43	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 23:43	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 23:43	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 23:43	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 23:43	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 23:43	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 23:43	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 23:43	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 23:43	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 23:43	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 23:43	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 23:43	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 23:43	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*10/02/25 23:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/02/25 23:43*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/02/25 23:43*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/02/25 23:43*	*1*

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**390**		34	8.6	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoropentanoic acid (PFPeA)	**970**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoroheptanoic acid (PFHpA)	**220**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorooctanoic acid (PFOA)	**390**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorononanoic acid (PFNA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorodecanoic acid (PFDA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoroundecanoic acid (PFUnA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorododecanoic acid (PFDoA)	ND		17	4.7	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorotridecanoic acid (PFTrDA)	ND		17	5.0	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorotetradecanoic acid (PFTeDA)	ND		17	7.0	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorobutanesulfonic acid (PFBS)	**660**		17	4.6	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoropentanesulfonic acid (PFPeS)	**470**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorohexanesulfonic acid (PFHxS)	**1600**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoroheptanesulfonic acid (PFHpS)	**27**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorooctanesulfonic acid (PFOS)	**230**		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorononanesulfonic acid (PFNS)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorodecanesulfonic acid (PFDS)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorododecanesulfonic acid (PFDoS)	ND		17	4.6	ng/L		10/02/25 04:02	10/04/25 15:53	10

Client Sample ID: DUPE

Date Collected: 09/26/25 00:00
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-6

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		34	8.6	ng/L		10/02/25 04:02	10/04/25 15:53	10
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	**56**		34	8.6	ng/L		10/02/25 04:02	10/04/25 15:53	10
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		34	8.6	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluorooctanesulfonamide (PFOSA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		86	22	ng/L		10/02/25 04:02	10/04/25 15:53	10
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		86	22	ng/L		10/02/25 04:02	10/04/25 15:53	10
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		13	3.4	ng/L		10/02/25 04:02	10/04/25 15:53	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	^+	17	6.2	ng/L		10/02/25 04:02	10/04/25 15:53	10
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		17	5.0	ng/L		10/02/25 04:02	10/04/25 15:53	10
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		17	4.3	ng/L		10/02/25 04:02	10/04/25 15:53	10
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		34	8.6	ng/L		10/02/25 04:02	10/04/25 15:53	10
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		86	22	ng/L		10/02/25 04:02	10/04/25 15:53	10
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		86	22	ng/L		10/02/25 04:02	10/04/25 15:53	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.3*	*3	*5 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C5 PFPeA	*82.8*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C5 PFHxA	*98.9*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C4 PFHpA	*87.6*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C8 PFOA	*88.3*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C9 PFNA	*84.9*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C6 PFDA	*91.0*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C7 PFUnA	*91.9*	*3	*30 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C2 PFDoA	*58.1*	*3	*10 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C2 PFTeDA	*38.0*	*3	*10 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C3 PFBS	*87.6*	*3	*40 - 135*	*10/02/25 04:02*	*10/04/25 15:53*	*10*
13C3 PFHxS	*81.3*	*3	*40 - 130*	*10/02/25 04:02*	*10/04/25 15:53*	*10*

Client Sample ID: DUPE
Date Collected: 09/26/25 00:00
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-6
Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	83.9	*3	40 - 130	10/02/25 04:02	10/04/25 15:53	10
13C8 FOSA	78.3	*3	40 - 130	10/02/25 04:02	10/04/25 15:53	10
d3-NMeFOSAA	81.6	*3	40 - 170	10/02/25 04:02	10/04/25 15:53	10
d5-NEtFOSAA	76.8	*3	25 - 135	10/02/25 04:02	10/04/25 15:53	10
13C2 4:2 FTS	98.8	*3	40 - 200	10/02/25 04:02	10/04/25 15:53	10
13C2 6:2 FTS	91.0	*3	40 - 200	10/02/25 04:02	10/04/25 15:53	10
13C2 8:2 FTS	82.8	*3	40 - 300	10/02/25 04:02	10/04/25 15:53	10
13C3 HFPO-DA	89.9	*3	40 - 130	10/02/25 04:02	10/04/25 15:53	10
d7-N-MeFOSE-M	47.9	*3	10 - 130	10/02/25 04:02	10/04/25 15:53	10
d9-N-EtFOSE-M	40.0	*3	10 - 130	10/02/25 04:02	10/04/25 15:53	10
d5-NEtPFOSA	42.6	*3	10 - 130	10/02/25 04:02	10/04/25 15:53	10
d3-NMePFOSA	61.6	*3	10 - 130	10/02/25 04:02	10/04/25 15:53	10

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	720		17	4.3	ng/L		10/02/25 04:02	10/05/25 20:43	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	90.8	*3	40 - 130	10/02/25 04:02	10/05/25 20:43	10

Surrogate Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
570-248388-1	GW-1	91	100	96	106
570-248388-2	GW-2	91	102	97	104
570-248388-3	GW-3	92	100	94	103
570-248388-4	GW-4	94	103	96	106
570-248388-5	GW-5	92	99	97	107
570-248388-6	DUPE	94	100	96	106
LCS 570-634680/1003	Lab Control Sample	95	100	92	100
LCSD 570-634680/4	Lab Control Sample Dup	92	99	91	101
MB 570-634680/7	Method Blank	90	103	96	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
570-248388-1	GW-1	90.2 *3	94.1 *3	84.7 *3	100 *3	77.9 *3	86.1 *3	91.1 *3	80.5 *3
570-248388-1 - RA	GW-1			91.1 *3					
570-248388-2	GW-2	81.7	78.9	96.7	98.7	87.0	80.8	83.6	66.5
570-248388-2 - RA	GW-2			91.0					
570-248388-3	GW-3	79.0 *3	84.7 *3	93.5 *3	94.5 *3	97.7 *3	82.4 *3	87.7 *3	77.6 *3
570-248388-3 - DL	GW-3			89.5 *3					
570-248388-4	GW-4	74.6 *3	77.0 *3	95.4 *3	106 *3	81.8 *3	84.7 *3	82.5 *3	72.8 *3
570-248388-4 - RA	GW-4			92.3 *3					
570-248388-5	GW-5	91.2	74.7	106	103	97.8	91.0	85.5	80.0
570-248388-5 - RA	GW-5			99.6					
570-248388-6	DUPE	85.3 *3	82.8 *3	98.9 *3	87.6 *3	88.3 *3	84.9 *3	91.0 *3	91.9 *3
570-248388-6 - RA	DUPE			90.8 *3					
LCS 320-878742/3-A	Lab Control Sample	93.5	92.0	111	99.3	93.6	90.0	89.0	95.6
LCSD 320-878742/4-A	Lab Control Sample Dup	87.1	108	111	118	92.3	86.3	93.6	85.9
LLCS 320-878742/2-A	Lab Control Sample	87.0	108	97.3	109	87.9	87.6	97.7	93.4
MB 320-878742/1-A	Method Blank	94.2	80.5	109	104	87.4	76.6	89.5	85.5

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
570-248388-1	GW-1	63.1 *3	35.4 *3	86.1 *3	87.6 *3	92.1 *3	89.9 *3	94.8 *3	84.2 *3
570-248388-1 - RA	GW-1								
570-248388-2	GW-2	39.2	13.1	83.0	87.2	78.7	73.5	61.0	51.0
570-248388-2 - RA	GW-2								
570-248388-3	GW-3	51.4 *3	24.7 *3	80.1 *3	81.5 *3	82.4 *3	78.0 *3	77.4 *3	69.6 *3
570-248388-3 - DL	GW-3				78.6 *3	73.3 *3			
570-248388-4	GW-4	41.7 *3	25.3 *3	83.2 *3	86.9 *3	85.6 *3	77.4 *3	79.1 *3	70.1 *3
570-248388-4 - RA	GW-4								
570-248388-5	GW-5	54.5	22.8	92.8	86.2	90.3	83.8	82.8	73.5
570-248388-5 - RA	GW-5								
570-248388-6	DUPE	58.1 *3	38.0 *3	87.6 *3	81.3 *3	83.9 *3	78.3 *3	81.6 *3	76.8 *3
570-248388-6 - RA	DUPE								
LCS 320-878742/3-A	Lab Control Sample	80.7	86.6	94.9	87.5	93.5	82.1	96.0	93.0
LCSD 320-878742/4-A	Lab Control Sample Dup	74.6	76.9	91.7	88.5	90.8	81.4	94.0	84.3
LLCS 320-878742/2-A	Lab Control Sample	79.0	95.4	94.8	90.5	90.4	83.2	98.8	92.3
MB 320-878742/1-A	Method Blank	69.5	80.0	88.8	88.8	85.5	75.9	89.8	84.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-248388-1	GW-1	101 *3	99.1 *3	95.5 *3	92.3 *3	52.4 *3	45.5 *3	46.6 *3	62.0 *3
570-248388-1 - RA	GW-1								
570-248388-2	GW-2	74.4	66.6	81.3	101	32.1	27.0	27.1	37.4
570-248388-2 - RA	GW-2								
570-248388-3	GW-3	118 *3	89.8 *3	87.9 *3	94.3 *3	45.3 *3	39.2 *3	41.9 *3	55.4 *3
570-248388-3 - DL	GW-3								
570-248388-4	GW-4	136 *3	94.7 *3	78.9 *3	90.1 *3	36.5 *3	30.9 *3	31.8 *3	43.1 *3
570-248388-4 - RA	GW-4								
570-248388-5	GW-5	160	84.8	91.1	101	45.4	39.1	38.7	53.6
570-248388-5 - RA	GW-5								
570-248388-6	DUPE	98.8 *3	91.0 *3	82.8 *3	89.9 *3	47.9 *3	40.0 *3	42.6 *3	61.6 *3

Isotope Dilution Summary

Client: Padre Associates, Inc. Job ID: 570-248388-1
Project/Site: Tustin USD-Proposed District Offices SDG: Legacy Road, Tustin CA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-248388-6 - RA	DUPE								
LCS 320-878742/3-A	Lab Control Sample	105	92.2	110	90.1	79.3	77.4	66.2	72.3
LCSD 320-878742/4-A	Lab Control Sample Dup	119	105	99.1	101	72.4	72.2	62.2	66.4
LLCS 320-878742/2-A	Lab Control Sample	114	93.7	97.6	90.4	79.4	80.2	67.4	73.7
MB 320-878742/1-A	Method Blank	98.4	91.5	96.8	98.2	66.1	71.3	55.7	61.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-634680/7
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			10/02/25 18:10	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			10/02/25 18:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			10/02/25 18:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/L			10/02/25 18:10	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/02/25 18:10	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			10/02/25 18:10	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 18:10	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			10/02/25 18:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			10/02/25 18:10	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			10/02/25 18:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			10/02/25 18:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			10/02/25 18:10	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			10/02/25 18:10	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			10/02/25 18:10	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 18:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/25 18:10	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			10/02/25 18:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			10/02/25 18:10	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			10/02/25 18:10	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			10/02/25 18:10	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			10/02/25 18:10	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/02/25 18:10	1
2-Butanone (MEK)	ND		10	4.5	ug/L			10/02/25 18:10	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			10/02/25 18:10	1
2-Hexanone	ND		10	2.7	ug/L			10/02/25 18:10	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			10/02/25 18:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			10/02/25 18:10	1
Acetone	ND		10	7.4	ug/L			10/02/25 18:10	1
Benzene	ND		0.50	0.24	ug/L			10/02/25 18:10	1
Bromobenzene	ND		1.0	0.29	ug/L			10/02/25 18:10	1
Bromochloromethane	ND		2.0	0.38	ug/L			10/02/25 18:10	1
Bromodichloromethane	ND		1.0	0.29	ug/L			10/02/25 18:10	1
Bromoform	ND		5.0	1.9	ug/L			10/02/25 18:10	1
Bromomethane	ND		10	7.4	ug/L			10/02/25 18:10	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/02/25 18:10	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			10/02/25 18:10	1
Carbon disulfide	ND		10	0.42	ug/L			10/02/25 18:10	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			10/02/25 18:10	1
Chlorobenzene	ND		1.0	0.26	ug/L			10/02/25 18:10	1
Chloroethane	ND		5.0	1.9	ug/L			10/02/25 18:10	1
Chloroform	ND		1.0	0.32	ug/L			10/02/25 18:10	1
Chloromethane	ND		10	2.2	ug/L			10/02/25 18:10	1
Dibromochloromethane	ND		2.0	0.37	ug/L			10/02/25 18:10	1
Dibromomethane	ND		1.0	0.33	ug/L			10/02/25 18:10	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			10/02/25 18:10	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/02/25 18:10	1
Isopropylbenzene	ND		1.0	0.41	ug/L			10/02/25 18:10	1
Methylene Chloride	ND		10	3.0	ug/L			10/02/25 18:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-634680/7
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 18:10	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			10/02/25 18:10	1
Naphthalene	ND		10	4.9	ug/L			10/02/25 18:10	1
n-Butylbenzene	ND		1.0	0.53	ug/L			10/02/25 18:10	1
N-Propylbenzene	ND		1.0	0.47	ug/L			10/02/25 18:10	1
o-Xylene	ND		1.0	0.27	ug/L			10/02/25 18:10	1
m,p-Xylene	ND		2.0	0.49	ug/L			10/02/25 18:10	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			10/02/25 18:10	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/02/25 18:10	1
Styrene	ND		1.0	0.38	ug/L			10/02/25 18:10	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			10/02/25 18:10	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			10/02/25 18:10	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			10/02/25 18:10	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/02/25 18:10	1
Toluene	ND		1.0	0.30	ug/L			10/02/25 18:10	1
Trichloroethene	ND		1.0	0.39	ug/L			10/02/25 18:10	1
Trichlorofluoromethane	ND		10	0.75	ug/L			10/02/25 18:10	1
Vinyl acetate	ND		10	5.0	ug/L			10/02/25 18:10	1
Vinyl chloride	ND		0.50	0.43	ug/L			10/02/25 18:10	1
Xylenes, Total	ND		2.0	0.49	ug/L			10/02/25 18:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*10/02/25 18:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/02/25 18:10*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/02/25 18:10*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/02/25 18:10*	*1*

Lab Sample ID: LCS 570-634680/1003
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.04		ug/L		100	83 - 120
1,1,1-Trichloroethane	20.0	16.99		ug/L		85	78 - 123
1,1,2,2-Tetrachloroethane	20.0	17.64		ug/L		88	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	16.98		ug/L		85	72 - 130
1,1,2-Trichloroethane	20.0	19.38		ug/L		97	82 - 120
1,1-Dichloroethane	20.0	20.65		ug/L		103	79 - 122
1,1-Dichloroethene	20.0	20.96		ug/L		105	74 - 127
1,1-Dichloropropene	20.0	18.67		ug/L		93	75 - 124
1,2,3-Trichlorobenzene	20.0	18.55		ug/L		93	71 - 126
1,2,3-Trichloropropane	20.0	17.80		ug/L		89	73 - 121
1,2,4-Trichlorobenzene	20.0	18.57		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	20.0	17.47		ug/L		87	80 - 125
1,2-Dibromo-3-Chloropropane	20.0	16.16		ug/L		81	64 - 127
1,2-Dibromoethane	20.0	19.49		ug/L		97	81 - 120
1,2-Dichlorobenzene	20.0	19.48		ug/L		97	78 - 122
1,2-Dichloroethane	20.0	18.92		ug/L		95	76 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-634680/1003
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	20.0	19.42		ug/L		97	82 - 120
1,3,5-Trimethylbenzene	20.0	18.66		ug/L		93	79 - 124
1,3-Dichlorobenzene	20.0	19.40		ug/L		97	81 - 120
1,3-Dichloropropane	20.0	19.71		ug/L		99	82 - 120
1,4-Dichlorobenzene	20.0	19.46		ug/L		97	78 - 121
2,2-Dichloropropane	20.0	17.80		ug/L		89	69 - 133
2-Butanone (MEK)	20.0	19.07		ug/L		95	55 - 142
2-Chlorotoluene	20.0	19.57		ug/L		98	80 - 120
2-Hexanone	20.0	21.01		ug/L		105	54 - 138
4-Chlorotoluene	20.0	19.29		ug/L		96	80 - 121
4-Methyl-2-pentanone (MIBK)	20.0	19.04		ug/L		95	57 - 133
Acetone	20.0	19.98		ug/L		100	50 - 157
Benzene	20.0	20.80		ug/L		104	80 - 120
Bromobenzene	20.0	20.84		ug/L		104	80 - 120
Bromochloromethane	20.0	18.27		ug/L		91	83 - 123
Bromodichloromethane	20.0	19.36		ug/L		97	83 - 120
Bromoform	20.0	18.96		ug/L		95	75 - 128
Bromomethane	20.0	20.69		ug/L		103	31 - 120
cis-1,2-Dichloroethene	20.0	19.16		ug/L		96	81 - 120
cis-1,3-Dichloropropene	20.0	21.31		ug/L		107	76 - 125
Carbon disulfide	20.0	19.15		ug/L		96	71 - 128
Carbon tetrachloride	20.0	17.77		ug/L		89	72 - 135
Chlorobenzene	20.0	19.73		ug/L		99	84 - 120
Chloroethane	20.0	21.31		ug/L		107	72 - 129
Chloroform	20.0	18.39		ug/L		92	79 - 120
Chloromethane	20.0	21.70		ug/L		108	36 - 148
Dibromochloromethane	20.0	18.68		ug/L		93	82 - 120
Dibromomethane	20.0	19.07		ug/L		95	85 - 120
Dichlorodifluoromethane	20.0	25.92		ug/L		130	52 - 147
Ethylbenzene	20.0	20.62		ug/L		103	81 - 120
Isopropylbenzene	20.0	19.66		ug/L		98	80 - 122
Methylene Chloride	20.0	18.24		ug/L		91	76 - 120
Methyl-t-Butyl Ether (MTBE)	20.0	18.29		ug/L		91	70 - 124
Naphthalene	20.0	14.83		ug/L		74	64 - 124
n-Butylbenzene	20.0	17.89		ug/L		89	78 - 127
N-Propylbenzene	20.0	19.81		ug/L		99	80 - 121
o-Xylene	20.0	19.87		ug/L		99	81 - 120
m,p-Xylene	40.0	40.41		ug/L		101	79 - 122
p-Isopropyltoluene	20.0	17.91		ug/L		90	81 - 124
sec-Butylbenzene	20.0	18.05		ug/L		90	80 - 123
Styrene	20.0	19.85		ug/L		99	82 - 120
trans-1,2-Dichloroethene	20.0	18.84		ug/L		94	79 - 122
trans-1,3-Dichloropropene	20.0	21.60		ug/L		108	73 - 127
tert-Butylbenzene	20.0	19.37		ug/L		97	80 - 124
Tetrachloroethene	20.0	21.73		ug/L		109	78 - 126
Toluene	20.0	20.29		ug/L		101	82 - 120
Trichloroethene	20.0	18.66		ug/L		93	83 - 120
Trichlorofluoromethane	20.0	21.21		ug/L		106	74 - 135
Vinyl acetate	20.0	17.45		ug/L		87	56 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-634680/1003
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			20.0	21.15		ug/L		106	68 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 570-634680/4
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			20.0	19.85		ug/L		99	83 - 120	1	20
1,1,1-Trichloroethane			20.0	16.15		ug/L		81	78 - 123	5	20
1,1,2,2-Tetrachloroethane			20.0	17.91		ug/L		90	74 - 125	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	15.64		ug/L		78	72 - 130	8	20
1,1,2-Trichloroethane			20.0	19.31		ug/L		97	82 - 120	0	20
1,1-Dichloroethane			20.0	19.27		ug/L		96	79 - 122	7	20
1,1-Dichloroethene			20.0	19.69		ug/L		98	74 - 127	6	20
1,1-Dichloropropene			20.0	17.59		ug/L		88	75 - 124	6	20
1,2,3-Trichlorobenzene			20.0	18.46		ug/L		92	71 - 126	0	20
1,2,3-Trichloropropane			20.0	18.05		ug/L		90	73 - 121	1	20
1,2,4-Trichlorobenzene			20.0	18.83		ug/L		94	70 - 130	1	20
1,2,4-Trimethylbenzene			20.0	17.50		ug/L		87	80 - 125	0	20
1,2-Dibromo-3-Chloropropane			20.0	16.37		ug/L		82	64 - 127	1	20
1,2-Dibromoethane			20.0	18.89		ug/L		94	81 - 120	3	20
1,2-Dichlorobenzene			20.0	19.16		ug/L		96	78 - 122	2	20
1,2-Dichloroethane			20.0	18.73		ug/L		94	76 - 123	1	20
1,2-Dichloropropane			20.0	19.40		ug/L		97	82 - 120	0	20
1,3,5-Trimethylbenzene			20.0	18.03		ug/L		90	79 - 124	3	20
1,3-Dichlorobenzene			20.0	19.78		ug/L		99	81 - 120	2	20
1,3-Dichloropropane			20.0	19.18		ug/L		96	82 - 120	3	20
1,4-Dichlorobenzene			20.0	19.24		ug/L		96	78 - 121	1	20
2,2-Dichloropropane			20.0	16.63		ug/L		83	69 - 133	7	20
2-Butanone (MEK)			20.0	19.06		ug/L		95	55 - 142	0	21
2-Chlorotoluene			20.0	19.36		ug/L		97	80 - 120	1	20
2-Hexanone			20.0	20.85		ug/L		104	54 - 138	1	21
4-Chlorotoluene			20.0	19.39		ug/L		97	80 - 121	1	20
4-Methyl-2-pentanone (MIBK)			20.0	19.72		ug/L		99	57 - 133	4	20
Acetone			20.0	18.97		ug/L		95	50 - 157	5	26
Benzene			20.0	20.20		ug/L		101	80 - 120	3	20
Bromobenzene			20.0	19.89		ug/L		99	80 - 120	5	20
Bromochloromethane			20.0	17.42		ug/L		87	83 - 123	5	20
Bromodichloromethane			20.0	19.10		ug/L		95	83 - 120	1	20
Bromoform			20.0	19.66		ug/L		98	75 - 128	4	20
Bromomethane			20.0	18.76		ug/L		94	31 - 120	10	22
cis-1,2-Dichloroethene			20.0	17.95		ug/L		90	81 - 120	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-634680/4
Matrix: Water
Analysis Batch: 634680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			20.0	21.65		ug/L		108	76 - 125	2	20
Carbon disulfide			20.0	18.13		ug/L		91	71 - 128	5	20
Carbon tetrachloride			20.0	17.19		ug/L		86	72 - 135	3	20
Chlorobenzene			20.0	19.65		ug/L		98	84 - 120	0	20
Chloroethane			20.0	20.06		ug/L		100	72 - 129	6	20
Chloroform			20.0	17.28		ug/L		86	79 - 120	6	20
Chloromethane			20.0	21.46		ug/L		107	36 - 148	1	20
Dibromochloromethane			20.0	18.81		ug/L		94	82 - 120	1	20
Dibromomethane			20.0	18.19		ug/L		91	85 - 120	5	20
Dichlorodifluoromethane			20.0	23.45		ug/L		117	52 - 147	10	20
Ethylbenzene			20.0	20.00		ug/L		100	81 - 120	3	20
Isopropylbenzene			20.0	19.34		ug/L		97	80 - 122	2	20
Methylene Chloride			20.0	17.68		ug/L		88	76 - 120	3	20
Methyl-t-Butyl Ether (MTBE)			20.0	18.21		ug/L		91	70 - 124	0	20
Naphthalene			20.0	15.25		ug/L		76	64 - 124	3	20
n-Butylbenzene			20.0	17.42		ug/L		87	78 - 127	3	20
N-Propylbenzene			20.0	19.53		ug/L		98	80 - 121	1	20
o-Xylene			20.0	19.48		ug/L		97	81 - 120	2	20
m,p-Xylene			40.0	39.98		ug/L		100	79 - 122	1	20
p-Isopropyltoluene			20.0	17.71		ug/L		89	81 - 124	1	20
sec-Butylbenzene			20.0	18.09		ug/L		90	80 - 123	0	20
Styrene			20.0	19.55		ug/L		98	82 - 120	2	20
trans-1,2-Dichloroethene			20.0	18.00		ug/L		90	79 - 122	5	20
trans-1,3-Dichloropropene			20.0	21.22		ug/L		106	73 - 127	2	20
tert-Butylbenzene			20.0	19.03		ug/L		95	80 - 124	2	20
Tetrachloroethene			20.0	20.58		ug/L		103	78 - 126	5	20
Toluene			20.0	19.88		ug/L		99	82 - 120	2	20
Trichloroethene			20.0	18.18		ug/L		91	83 - 120	3	20
Trichlorofluoromethane			20.0	19.51		ug/L		98	74 - 135	8	20
Vinyl acetate			20.0	17.42		ug/L		87	56 - 135	0	24
Vinyl chloride			20.0	19.96		ug/L		100	68 - 131	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-878742/1-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 878742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-878742/1-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 878742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.58	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.54	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		10/02/25 04:02	10/04/25 11:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.0	ng/L		10/02/25 04:02	10/04/25 11:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		10/02/25 04:02	10/04/25 11:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 11:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 11:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.39	ng/L		10/02/25 04:02	10/04/25 11:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.72	ng/L		10/02/25 04:02	10/04/25 11:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.58	ng/L		10/02/25 04:02	10/04/25 11:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		10/02/25 04:02	10/04/25 11:47	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-878742/1-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 878742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		10/02/25 04:02	10/04/25 11:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		10/02/25 04:02	10/04/25 11:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 11:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		10/02/25 04:02	10/04/25 11:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94.2*		*5 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C5 PFPeA	*80.5*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C5 PFHxA	*109*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C4 PFHpA	*104*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C8 PFOA	*87.4*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C9 PFNA	*76.6*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C6 PFDA	*89.5*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C7 PFUnA	*85.5*		*30 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C2 PFDoA	*69.5*		*10 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C2 PFTeDA	*80.0*		*10 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C3 PFBS	*88.8*		*40 - 135*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C3 PFHxS	*88.8*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C8 PFOS	*85.5*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C8 FOSA	*75.9*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
d3-NMeFOSAA	*89.8*		*40 - 170*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
d5-NEtFOSAA	*84.1*		*25 - 135*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C2 4:2 FTS	*98.4*		*40 - 200*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C2 6:2 FTS	*91.5*		*40 - 200*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C2 8:2 FTS	*96.8*		*40 - 300*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
13C3 HFPO-DA	*98.2*		*40 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
d7-N-MeFOSE-M	*66.1*		*10 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
d9-N-EtFOSE-M	*71.3*		*10 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
d5-NEtPFOSA	*55.7*		*10 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*
d3-NMePFOSA	*61.0*		*10 - 130*	*10/02/25 04:02*	*10/04/25 11:47*	*1*

Lab Sample ID: LCS 320-878742/3-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 878742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	88.20		ng/L		110	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	37.39		ng/L		93	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	38.13		ng/L		95	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	36.29		ng/L		91	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	39.29		ng/L		98	70 - 150
Perfluorononanoic acid (PFNA)	40.0	41.18		ng/L		103	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	41.05		ng/L		103	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	37.58		ng/L		94	70 - 145

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-878742/3-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 878742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	40.0	45.76		ng/L		114	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	43.52		ng/L		109	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	37.59		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	31.61		ng/L		89	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	39.68		ng/L		106	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.42		ng/L		97	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.25		ng/L		103	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	38.11		ng/L		102	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	35.78		ng/L		93	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	34.46		ng/L		89	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.36		ng/L		83	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	71.02		ng/L		95	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	79.36		ng/L		104	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	58.99		ng/L		77	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	41.00		ng/L		103	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	40.77		ng/L		102	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	44.49		ng/L		111	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	35.39		ng/L		88	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.58		ng/L		99	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	192.0		ng/L		96	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	204.6		ng/L		102	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	28.36		ng/L		95	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.66		ng/L		94	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	42.80		ng/L		107	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	43.14		ng/L		108	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	28.30		ng/L		71	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	37.76		ng/L		101	70 - 155

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-878742/3-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 878742

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			37.8	38.50		ng/L		102	55 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			35.7	27.22		ng/L		76	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			80.0	79.30		ng/L		99	65 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			200	153.2		ng/L		77	70 - 135		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			200	134.5		ng/L		67	50 - 145		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*93.5*		*5 - 130*
13C5 PFPeA	*92.0*		*40 - 130*
13C5 PFHxA	*111*		*40 - 130*
13C4 PFHpA	*99.3*		*40 - 130*
13C8 PFOA	*93.6*		*40 - 130*
13C9 PFNA	*90.0*		*40 - 130*
13C6 PFDA	*89.0*		*40 - 130*
13C7 PFUnA	*95.6*		*30 - 130*
13C2 PFDoA	*80.7*		*10 - 130*
13C2 PFTeDA	*86.6*		*10 - 130*
13C3 PFBS	*94.9*		*40 - 135*
13C3 PFHxS	*87.5*		*40 - 130*
13C8 PFOS	*93.5*		*40 - 130*
13C8 FOSA	*82.1*		*40 - 130*
d3-NMeFOSAA	*96.0*		*40 - 170*
d5-NEtFOSAA	*93.0*		*25 - 135*
13C2 4:2 FTS	*105*		*40 - 200*
13C2 6:2 FTS	*92.2*		*40 - 200*
13C2 8:2 FTS	*110*		*40 - 300*
13C3 HFPO-DA	*90.1*		*40 - 130*
d7-N-MeFOSE-M	*79.3*		*10 - 130*
d9-N-EtFOSE-M	*77.4*		*10 - 130*
d5-NEtPFOSA	*66.2*		*10 - 130*
d3-NMePFOSA	*72.3*		*10 - 130*

Lab Sample ID: LCSD 320-878742/4-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 878742

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			80.0	98.78		ng/L		123	70 - 140	11	30
Perfluoropentanoic acid (PFPeA)			40.0	45.43		ng/L		114	65 - 135	19	30
Perfluorohexanoic acid (PFHxA)			40.0	37.40		ng/L		93	70 - 145	2	30
Perfluoroheptanoic acid (PFHpA)			40.0	37.60		ng/L		94	70 - 150	4	30
Perfluorooctanoic acid (PFOA)			40.0	39.54		ng/L		99	70 - 150	1	30
Perfluorononanoic acid (PFNA)			40.0	45.69		ng/L		114	70 - 150	10	30
Perfluorodecanoic acid (PFDA)			40.0	38.78		ng/L		97	70 - 140	6	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-878742/4-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 878742

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)			40.0	41.70		ng/L		104	70 - 145	10	30
Perfluorododecanoic acid (PFDoA)			40.0	46.77		ng/L		117	70 - 140	2	30
Perfluorotridecanoic acid (PFTrDA)			40.0	44.79		ng/L		112	65 - 140	3	30
Perfluorotetradecanoic acid (PFTeDA)			40.0	42.39		ng/L		106	60 - 140	12	30
Perfluorobutanesulfonic acid (PFBS)			35.5	35.97		ng/L		101	60 - 145	13	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	40.89		ng/L		109	65 - 140	3	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	37.63		ng/L		103	65 - 145	6	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	39.75		ng/L		104	70 - 150	1	30
Perfluorooctanesulfonic acid (PFOS)			37.2	39.77		ng/L		107	55 - 150	4	30
Perfluorononanesulfonic acid (PFNS)			38.5	38.92		ng/L		101	65 - 145	8	30
Perfluorodecanesulfonic acid (PFDS)			38.6	37.94		ng/L		98	60 - 145	10	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	33.45		ng/L		86	50 - 145	3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)			75.0	68.33		ng/L		91	70 - 145	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)			76.2	79.47		ng/L		104	65 - 155	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)			76.8	73.26		ng/L		95	60 - 150	22	30
Perfluorooctanesulfonamide (PFOSA)			40.0	41.30		ng/L		103	70 - 145	1	30
N-methylperfluorooctane sulfonamide (NMeFOSA)			40.0	44.74		ng/L		112	60 - 150	9	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)			40.0	46.91		ng/L		117	65 - 145	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	38.29		ng/L		96	50 - 140	8	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	42.60		ng/L		107	70 - 145	7	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)			200	208.0		ng/L		104	70 - 145	8	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)			200	208.0		ng/L		104	70 - 135	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)			30.0	28.27		ng/L		94	70 - 140	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.8	35.42		ng/L		94	65 - 145	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)			40.0	40.71		ng/L		102	55 - 140	5	30
Perfluoro-4-methoxybutanoic acid (PFMBA)			40.0	42.05		ng/L		105	60 - 150	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			40.0	34.52		ng/L		86	50 - 150	20	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-878742/4-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 878742

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			37.4	39.92		ng/L		107	70 - 155	6	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			37.8	37.46		ng/L		99	55 - 160	3	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			35.7	33.66		ng/L		94	70 - 140	21	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)			80.0	72.77		ng/L		91	65 - 130	9	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)			200	182.4		ng/L		91	70 - 135	17	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			200	153.6		ng/L		77	50 - 145	13	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*87.1*		*5 - 130*
13C5 PFPeA	*108*		*40 - 130*
13C5 PFHxA	*111*		*40 - 130*
13C4 PFHpA	*118*		*40 - 130*
13C8 PFOA	*92.3*		*40 - 130*
13C9 PFNA	*86.3*		*40 - 130*
13C6 PFDA	*93.6*		*40 - 130*
13C7 PFUnA	*85.9*		*30 - 130*
13C2 PFDoA	*74.6*		*10 - 130*
13C2 PFTeDA	*76.9*		*10 - 130*
13C3 PFBS	*91.7*		*40 - 135*
13C3 PFHxS	*88.5*		*40 - 130*
13C8 PFOS	*90.8*		*40 - 130*
13C8 FOSA	*81.4*		*40 - 130*
d3-NMeFOSAA	*94.0*		*40 - 170*
d5-NEtFOSAA	*84.3*		*25 - 135*
13C2 4:2 FTS	*119*		*40 - 200*
13C2 6:2 FTS	*105*		*40 - 200*
13C2 8:2 FTS	*99.1*		*40 - 300*
13C3 HFPO-DA	*101*		*40 - 130*
d7-N-MeFOSE-M	*72.4*		*10 - 130*
d9-N-EtFOSE-M	*72.2*		*10 - 130*
d5-NEtPFOSA	*62.2*		*10 - 130*
d3-NMePFOSA	*66.4*		*10 - 130*

Lab Sample ID: LLCS 320-878742/2-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 878742

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)			8.00	10.57		ng/L		132	70 - 140
Perfluoropentanoic acid (PFPeA)			4.00	4.766		ng/L		119	65 - 135
Perfluorohexanoic acid (PFHxA)			4.00	5.020		ng/L		125	70 - 145
Perfluoroheptanoic acid (PFHpA)			4.00	3.823		ng/L		96	70 - 150
Perfluorooctanoic acid (PFOA)			4.00	4.262		ng/L		107	70 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-878742/2-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 878742

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	4.00	4.473		ng/L		112	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.912		ng/L		98	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.253		ng/L		106	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	5.319		ng/L		133	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.787		ng/L		120	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.005		ng/L		100	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.837		ng/L		108	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	4.174		ng/L		111	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.970		ng/L		109	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.419		ng/L		116	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.565		ng/L		123	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	4.658		ng/L		121	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	4.227		ng/L		110	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	4.313		ng/L		111	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.022		ng/L		94	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	8.424		ng/L		111	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	6.824		ng/L		89	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.470		ng/L		112	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.168		ng/L		104	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.778		ng/L		119	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.093		ng/L		102	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.849		ng/L		121	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	21.88		ng/L		109	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	22.45		ng/L		112	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.030		ng/L		101	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.021		ng/L		106	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.508		ng/L		88	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.314		ng/L		108	60 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-878742/2-A
Matrix: Water
Analysis Batch: 879210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 878742

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			4.00	4.043		ng/L		101	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			3.74	4.250		ng/L		114	70 - 155		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			3.78	4.484		ng/L		119	55 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			3.57	3.475		ng/L		97	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			8.00	7.300		ng/L		91	65 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			20.0	19.14		ng/L		96	70 - 135		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			20.0	16.24		ng/L		81	50 - 145		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*87.0*		*5 - 130*
13C5 PFPeA	*108*		*40 - 130*
13C5 PFHxA	*97.3*		*40 - 130*
13C4 PFHpA	*109*		*40 - 130*
13C8 PFOA	*87.9*		*40 - 130*
13C9 PFNA	*87.6*		*40 - 130*
13C6 PFDA	*97.7*		*40 - 130*
13C7 PFUnA	*93.4*		*30 - 130*
13C2 PFDoA	*79.0*		*10 - 130*
13C2 PFTeDA	*95.4*		*10 - 130*
13C3 PFBS	*94.8*		*40 - 135*
13C3 PFHxS	*90.5*		*40 - 130*
13C8 PFOS	*90.4*		*40 - 130*
13C8 FOSA	*83.2*		*40 - 130*
d3-NMeFOSAA	*98.8*		*40 - 170*
d5-NEtFOSAA	*92.3*		*25 - 135*
13C2 4:2 FTS	*114*		*40 - 200*
13C2 6:2 FTS	*93.7*		*40 - 200*
13C2 8:2 FTS	*97.6*		*40 - 300*
13C3 HFPO-DA	*90.4*		*40 - 130*
d7-N-MeFOSE-M	*79.4*		*10 - 130*
d9-N-EtFOSE-M	*80.2*		*10 - 130*
d5-NEtPFOSA	*67.4*		*10 - 130*
d3-NMePFOSA	*73.7*		*10 - 130*

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

GC/MS VOA

Analysis Batch: 634680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248388-1	GW-1	Total/NA	Water	8260B	
570-248388-2	GW-2	Total/NA	Water	8260B	
570-248388-3	GW-3	Total/NA	Water	8260B	
570-248388-4	GW-4	Total/NA	Water	8260B	
570-248388-5	GW-5	Total/NA	Water	8260B	
570-248388-6	DUPE	Total/NA	Water	8260B	
MB 570-634680/7	Method Blank	Total/NA	Water	8260B	
LCS 570-634680/1003	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-634680/4	Lab Control Sample Dup	Total/NA	Water	8260B	

LCMS

Prep Batch: 878742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248388-1 - RA	GW-1	Total/NA	Water	1633	
570-248388-1	GW-1	Total/NA	Water	1633	
570-248388-2 - RA	GW-2	Total/NA	Water	1633	
570-248388-2	GW-2	Total/NA	Water	1633	
570-248388-3	GW-3	Total/NA	Water	1633	
570-248388-3 - DL	GW-3	Total/NA	Water	1633	
570-248388-4 - RA	GW-4	Total/NA	Water	1633	
570-248388-4	GW-4	Total/NA	Water	1633	
570-248388-5 - RA	GW-5	Total/NA	Water	1633	
570-248388-5	GW-5	Total/NA	Water	1633	
570-248388-6 - RA	DUPE	Total/NA	Water	1633	
570-248388-6	DUPE	Total/NA	Water	1633	
MB 320-878742/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-878742/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-878742/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-878742/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 879210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248388-1	GW-1	Total/NA	Water	1633	878742
570-248388-2	GW-2	Total/NA	Water	1633	878742
570-248388-3	GW-3	Total/NA	Water	1633	878742
570-248388-4	GW-4	Total/NA	Water	1633	878742
570-248388-5	GW-5	Total/NA	Water	1633	878742
570-248388-6	DUPE	Total/NA	Water	1633	878742
MB 320-878742/1-A	Method Blank	Total/NA	Water	1633	878742
LCS 320-878742/3-A	Lab Control Sample	Total/NA	Water	1633	878742
LCSD 320-878742/4-A	Lab Control Sample Dup	Total/NA	Water	1633	878742
LLCS 320-878742/2-A	Lab Control Sample	Total/NA	Water	1633	878742

Analysis Batch: 879257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248388-1 - RA	GW-1	Total/NA	Water	1633	878742
570-248388-2 - RA	GW-2	Total/NA	Water	1633	878742
570-248388-4 - RA	GW-4	Total/NA	Water	1633	878742
570-248388-5 - RA	GW-5	Total/NA	Water	1633	878742
570-248388-6 - RA	DUPE	Total/NA	Water	1633	878742

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

LCMS

Analysis Batch: 879648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-248388-3 - DL	GW-3	Total/NA	Water	1633	878742

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-1
Date Collected: 09/26/25 12:27
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	634680	10/02/25 21:57	PT	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Prep	1633	RA		139.9 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633	RA	10			879257	10/05/25 18:49	S1C	EET SAC
	Instrument ID: A30									
Total/NA	Prep	1633			139.9 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633		10			879210	10/04/25 13:58	N1K	EET SAC
	Instrument ID: A45									

Client Sample ID: GW-2
Date Collected: 09/25/25 14:15
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	634680	10/02/25 22:18	PT	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Prep	1633	RA		122.9 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			879257	10/05/25 19:05	S1C	EET SAC
	Instrument ID: A30									
Total/NA	Prep	1633			122.9 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633		1			879210	10/04/25 14:14	N1K	EET SAC
	Instrument ID: A45									

Client Sample ID: GW-3
Date Collected: 09/25/25 11:05
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	634680	10/02/25 22:40	PT	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Prep	1633			138.3 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633		10			879210	10/04/25 14:31	N1K	EET SAC
	Instrument ID: A45									
Total/NA	Prep	1633	DL		138.3 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633	DL	20			879648	10/07/25 17:47	C1P	EET SAC
	Instrument ID: A45									

Client Sample ID: GW-4
Date Collected: 09/25/25 12:50
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	634680	10/02/25 23:01	PT	EET CAL 4
	Instrument ID: GCMSPP									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Client Sample ID: GW-4

Date Collected: 09/25/25 12:50
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		138.5 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633	RA	10			879257	10/05/25 19:38	S1C	EET SAC
	Instrument ID: A30									
Total/NA	Prep	1633			138.5 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633		10			879210	10/04/25 15:20	N1K	EET SAC
	Instrument ID: A45									

Client Sample ID: GW-5

Date Collected: 09/26/25 11:45
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	634680	10/02/25 23:22	PT	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Prep	1633	RA		135.9 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			879257	10/05/25 20:27	S1C	EET SAC
	Instrument ID: A30									
Total/NA	Prep	1633			135.9 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633		1			879210	10/04/25 15:36	N1K	EET SAC
	Instrument ID: A45									

Client Sample ID: DUPE

Date Collected: 09/26/25 00:00
Date Received: 09/26/25 14:34

Lab Sample ID: 570-248388-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	634680	10/02/25 23:43	PT	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Prep	1633	RA		145 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633	RA	10			879257	10/05/25 20:43	S1C	EET SAC
	Instrument ID: A30									
Total/NA	Prep	1633			145 mL	5.0 mL	878742	10/02/25 04:02	RMF	EET SAC
Total/NA	Analysis	1633		10			879210	10/04/25 15:53	N1K	EET SAC
	Instrument ID: A45									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone (MEK)
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	Acetone
8260B		Water	Isopropylbenzene
8260B		Water	p-Isopropyltoluene
8260B		Water	Vinyl acetate

Oregon	NELAP	4175	02-02-26

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	CA00044	06-30-26
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468.03	01-20-27
Arizona	State	AZ0708	08-11-26
Arkansas DEQ	State	88-0691	05-18-26
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-26
Florida	NELAP	E87570	06-30-26
Georgia	State	4040	01-29-26
Illinois	NELAP	200060	03-31-26
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-26
Louisiana (All)	NELAP	01944	06-30-26
Maine	State	CA00004	04-14-26
Massachusetts	State	M-CA044	06-30-26
Michigan	State	9947	01-29-26
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-26
New Jersey	NELAP	CA005	06-30-26
New York	NELAP	11666	04-01-26
Ohio	State	41252	01-29-26
Oregon	NELAP	4040	01-29-26
Texas	NELAP	T104704399-23-17	05-31-26
US Fish & Wildlife	US Federal Programs	A22139	04-30-26

Accreditation/Certification Summary

Client: Padre Associates, Inc. Job ID: 570-248388-1
Project/Site: Tustin USD-Proposed District Offices SDG: Legacy Road, Tustin CA

Laboratory: Eurofins Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-26
Virginia	NELAP	460278	03-14-26
Washington	State	C581	05-05-26
West Virginia (DW)	State	9930C	02-01-26
West Virginia DEP	State	422	03-28-26
Wisconsin	State	998204680	08-31-26
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
5030C	Purge and Trap	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-248388-1
SDG: Legacy Road, Tustin CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-248388-1	GW-1	Water	09/26/25 12:27	09/26/25 14:34	California
570-248388-2	GW-2	Water	09/25/25 14:15	09/26/25 14:34	California
570-248388-3	GW-3	Water	09/25/25 11:05	09/26/25 14:34	California
570-248388-4	GW-4	Water	09/25/25 12:50	09/26/25 14:34	California
570-248388-5	GW-5	Water	09/26/25 11:45	09/26/25 14:34	California
570-248388-6	DUPE	Water	09/26/25 00:00	09/26/25 14:34	California

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Lauren Alamillo/Will Wyatt	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 570-140976-28472.2
Client Contact: Alan Churchill	Phone: (805) 212-2220	E-Mail: Rossina.Tomova@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Padre Associates, Inc.	PWSID:			Job #: 2501-0092
Address: 350 University Ave Suite 250	Due Date Requested: 10 day TAT			
City: Sacramento	TAT Requested (days): Standard			
State, Zip: CA, 95825	Compliance Project: Δ Yes Δ No			
Phone: 916-952-5421	PO #: 2501-0092			
Email: achurchill@PadreInc.com	WO #:			
Project Name: Tustin USD-Proposed District Offices	Eurofins Project #: 57026774			
Site: Legacy Road, Tustin, CA	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
A - HCL
D - HNO3
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Routine Volatiles List (Full Spike)	1633_Final - Standard List (40 Analytes)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							A	N		
1	GW-1	9/26/25	1227	G	Water			X	X		3 VOAs and 2 125mL plastic per sample
2	GW-2	9/25/25	1415	G	Water			X	X		
3	GW-3	9/25/25	1105	G	Water			X	X		
4	GW-4	9/25/25	1250	G	Water			X	X		
5	GW-5	9/26/25	1145	G	Water			X	X		
6	DUPE	9/26/25		G	Water			X	X		

570-248388 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lauren Alamillo				9-26-25 14:34	EC
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.1 / 4.1 IR92

Ver: 05/06/2020
10/8/2025

U26P

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895-5494

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Tomova, Rossina D	Carrier Tracking No(s): N/A	COC No: 570-472609.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Rossina.Tomova@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): NELAP - Oregon; State - California		Job #: 570-248388-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/9/2025			Preservation Codes: -
City: West Sacramento	TAT Requested (days): N/A			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Tustin USD-Proposed District Offices	Project #: 57026774			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633_Final/1633_SPE_12SStandard List (40 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GW-1 (570-248388-1)	9/26/25	12:27 Pacific	G	Water			X	2	
GW-2 (570-248388-2)	9/26/25	14:15 Pacific	G	Water			X	2	
GW-3 (570-248388-3)	9/26/25	11:05 Pacific	G	Water			X	2	
GW-4 (570-248388-4)	9/26/25	12:50 Pacific	G	Water			X	2	
GW-5 (570-248388-5)	9/26/25	11:45 Pacific	G	Water			X	2	
DUPE (570-248388-6)	9/26/25	Pacific	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	09/29/2025 1500	EC		9/30/25 900	ESAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.8c

Ver: 10/10/2024

10/8/2025

Login Sample Receipt Checklist

Client: Padre Associates, Inc.

Job Number: 570-248388-1
SDG Number: Legacy Road, Tustin CA

Login Number: 248388
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Padre Associates, Inc.

Job Number: 570-248388-1
SDG Number: Legacy Road, Tustin CA

Login Number: 248388
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 09/30/25 12:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alan Churchill
Padre Associates, Inc.
350 University Ave Suite 250
Sacramento, California 95827

Generated 9/30/2025 11:19:51 AM

JOB DESCRIPTION

Tustin USD-Proposed District Offices
Legacy Road, Tustin CA

JOB NUMBER

570-246746-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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9/30/2025 11:19:51 AM

Authorized for release by
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Definitions/Glossary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-246746-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/16/2025 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

GC/MS VOA
Method Composite_VOA: The following Volatile samples were composited by the laboratory on 9/17/2025 as requested by the client: SS-1A (570-246746-1), SS-1B (570-246746-2), SS-1C (570-246746-3), SS-1D (570-246746-4), SS-2A (570-246746-5), SS-2B (570-246746-6), SS-2C (570-246746-7), SS-2D (570-246746-8), SS-3A (570-246746-9), SS-3B (570-246746-10), SS-3C (570-246746-11), SS-3D (570-246746-12), SS-4A (570-246746-13), SS-4B (570-246746-14), SS-4C (570-246746-15) and SS-4D (570-246746-16). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Organic Prep
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-1A — Lab Sample ID: 570-246746-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-1B — Lab Sample ID: 570-246746-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-1C — Lab Sample ID: 570-246746-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-1D — Lab Sample ID: 570-246746-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-2A — Lab Sample ID: 570-246746-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-2B — Lab Sample ID: 570-246746-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-2C — Lab Sample ID: 570-246746-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-2D — Lab Sample ID: 570-246746-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-3A — Lab Sample ID: 570-246746-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-3B — Lab Sample ID: 570-246746-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-3B (Continued) — Lab Sample ID: 570-246746-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-3C — Lab Sample ID: 570-246746-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-3D — Lab Sample ID: 570-246746-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-4A — Lab Sample ID: 570-246746-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-4B — Lab Sample ID: 570-246746-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-4C — Lab Sample ID: 570-246746-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: SS-4D — Lab Sample ID: 570-246746-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA
Composited	Yes				NONE	1		Composite	Total/NA

Client Sample ID: CS-1 — Lab Sample ID: 570-246746-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J	19	9.5	ug/Kg	1		8260B	Total/NA
Antimony	0.299	J	0.421	0.170	mg/Kg	5		6020	Total/NA
Arsenic	5.36		0.421	0.0664	mg/Kg	5		6020	Total/NA
Barium	149		0.421	0.233	mg/Kg	5		6020	Total/NA
Beryllium	0.671		0.421	0.336	mg/Kg	5		6020	Total/NA
Cadmium	0.332	J	0.421	0.0607	mg/Kg	5		6020	Total/NA
Chromium	21.3		0.421	0.321	mg/Kg	5		6020	Total/NA
Cobalt	8.59		0.421	0.0432	mg/Kg	5		6020	Total/NA
Copper	15.1		0.421	0.0781	mg/Kg	5		6020	Total/NA
Lead	9.51		0.421	0.233	mg/Kg	5		6020	Total/NA
Molybdenum	0.936		0.421	0.207	mg/Kg	5		6020	Total/NA
Nickel	15.2		0.421	0.286	mg/Kg	5		6020	Total/NA
Selenium	1.58		0.421	0.321	mg/Kg	5		6020	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-1 (Continued)

Lab Sample ID: 570-246746-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.191	J	0.421	0.134	mg/Kg	5		6020	Total/NA
Vanadium	41.1		0.421	0.158	mg/Kg	5		6020	Total/NA
Zinc	52.7		4.21	2.54	mg/Kg	5		6020	Total/NA

Client Sample ID: CS-2

Lab Sample ID: 570-246746-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	19	9.5	ug/Kg	1		8260B	Total/NA
Antimony	0.283	J	0.515	0.208	mg/Kg	5		6020	Total/NA
Arsenic	5.28		0.515	0.0812	mg/Kg	5		6020	Total/NA
Barium	155		0.515	0.285	mg/Kg	5		6020	Total/NA
Beryllium	0.704		0.515	0.411	mg/Kg	5		6020	Total/NA
Cadmium	0.399	J	0.515	0.0742	mg/Kg	5		6020	Total/NA
Chromium	22.6		0.515	0.393	mg/Kg	5		6020	Total/NA
Cobalt	10.8		0.515	0.0528	mg/Kg	5		6020	Total/NA
Copper	16.1		0.515	0.0955	mg/Kg	5		6020	Total/NA
Lead	9.88		0.515	0.285	mg/Kg	5		6020	Total/NA
Molybdenum	1.03		0.515	0.253	mg/Kg	5		6020	Total/NA
Nickel	16.4		0.515	0.350	mg/Kg	5		6020	Total/NA
Selenium	1.37		0.515	0.392	mg/Kg	5		6020	Total/NA
Thallium	0.186	J	0.515	0.164	mg/Kg	5		6020	Total/NA
Vanadium	41.2		0.515	0.193	mg/Kg	5		6020	Total/NA
Zinc	54.1		5.15	3.11	mg/Kg	5		6020	Total/NA
Mercury	0.0479	J	0.0887	0.0245	mg/Kg	1		7471A	Total/NA

Client Sample ID: CS-3

Lab Sample ID: 570-246746-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	19	9.5	ug/Kg	1		8260B	Total/NA
Antimony	0.323	J	0.450	0.181	mg/Kg	5		6020	Total/NA
Arsenic	5.10		0.450	0.0709	mg/Kg	5		6020	Total/NA
Barium	168		0.450	0.248	mg/Kg	5		6020	Total/NA
Beryllium	0.731		0.450	0.359	mg/Kg	5		6020	Total/NA
Cadmium	0.383	J	0.450	0.0647	mg/Kg	5		6020	Total/NA
Chromium	24.1		0.450	0.343	mg/Kg	5		6020	Total/NA
Cobalt	12.6		0.450	0.0460	mg/Kg	5		6020	Total/NA
Copper	15.9		0.450	0.0833	mg/Kg	5		6020	Total/NA
Lead	9.79		0.450	0.248	mg/Kg	5		6020	Total/NA
Molybdenum	0.918		0.450	0.221	mg/Kg	5		6020	Total/NA
Nickel	17.4		0.450	0.305	mg/Kg	5		6020	Total/NA
Selenium	1.67		0.450	0.342	mg/Kg	5		6020	Total/NA
Thallium	0.193	J	0.450	0.143	mg/Kg	5		6020	Total/NA
Vanadium	42.8		0.450	0.169	mg/Kg	5		6020	Total/NA
Zinc	57.2		4.50	2.71	mg/Kg	5		6020	Total/NA
Mercury	0.0289	J	0.0801	0.0221	mg/Kg	1		7471A	Total/NA

Client Sample ID: CS-4

Lab Sample ID: 570-246746-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	19	9.5	ug/Kg	1		8260B	Total/NA
Antimony	0.298	J	0.513	0.207	mg/Kg	5		6020	Total/NA
Arsenic	5.46		0.513	0.0808	mg/Kg	5		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-4 (Continued)

Lab Sample ID: 570-246746-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	155		0.513	0.283	mg/Kg	5		6020	Total/NA
Beryllium	0.746		0.513	0.409	mg/Kg	5		6020	Total/NA
Cadmium	0.320	J	0.513	0.0738	mg/Kg	5		6020	Total/NA
Chromium	22.5		0.513	0.391	mg/Kg	5		6020	Total/NA
Cobalt	8.10		0.513	0.0525	mg/Kg	5		6020	Total/NA
Copper	15.4		0.513	0.0951	mg/Kg	5		6020	Total/NA
Lead	9.72		0.513	0.283	mg/Kg	5		6020	Total/NA
Molybdenum	0.859		0.513	0.252	mg/Kg	5		6020	Total/NA
Nickel	15.1		0.513	0.348	mg/Kg	5		6020	Total/NA
Selenium	1.59		0.513	0.390	mg/Kg	5		6020	Total/NA
Thallium	0.188	J	0.513	0.163	mg/Kg	5		6020	Total/NA
Vanadium	42.6		0.513	0.192	mg/Kg	5		6020	Total/NA
Zinc	55.2		5.13	3.10	mg/Kg	5		6020	Total/NA
Mercury	0.0300	J	0.0833	0.0230	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-1A
Date Collected: 09/16/25 10:30
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-1
Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-1B

Date Collected: 09/16/25 10:36
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-2

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-1C

Date Collected: 09/16/25 10:41
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-3

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-1D

Date Collected: 09/16/25 10:46
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-4

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-2A

Date Collected: 09/16/25 10:55
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-5

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-2B
Date Collected: 09/16/25 10:59
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-6
Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-2C
Date Collected: 09/16/25 11:04
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-7
Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-2D

Date Collected: 09/16/25 11:09
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-8

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-3A

Date Collected: 09/16/25 11:21
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-9

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-3B

Date Collected: 09/16/25 11:25
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-10

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-3C
Date Collected: 09/16/25 11:29
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-11
Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-3D

Date Collected: 09/16/25 11:33
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-12

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-4A

Date Collected: 09/16/25 11:43
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-13

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-4B

Date Collected: 09/16/25 11:48
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-14

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-4C
Date Collected: 09/16/25 11:52
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-15
Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-4D

Date Collected: 09/16/25 11:58
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-16

Matrix: Solid

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Method: Composite - Sample Compositing

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			09/17/25 15:00	1

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-1

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-17

Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1,1-Trichloroethane	ND		0.96	0.22	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.44	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1,2-Trichloroethane	ND		0.96	0.45	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1-Dichloroethene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2,4-Trichlorobenzene	ND		1.9	0.39	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2,4-Trimethylbenzene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2-Dichloroethane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,2-Dichloropropane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
1,4-Dichlorobenzene	ND		0.96	0.30	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
2-Butanone (MEK)	ND		19	4.3	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
2-Hexanone	ND		19	3.0	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		19	2.8	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Acetone	**15**	**J**	19	9.5	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Benzene	ND		0.96	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Bromobenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Bromoform	ND		4.8	1.3	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Bromomethane	ND		19	6.3	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
cis-1,2-Dichloroethene	ND		0.96	0.32	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
cis-1,3-Dichloropropene	ND		0.96	0.34	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Carbon disulfide	ND		9.6	0.38	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Chlorobenzene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Chloroethane	ND		1.9	0.31	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Chloroform	ND		0.96	0.57	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Chloromethane	ND		19	1.5	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Dibromomethane	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Ethylbenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Isopropylbenzene	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Methylene Chloride	ND		9.6	3.0	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		09/20/25 08:30	09/20/25 14:09	1

Client Sample ID: CS-1

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-17

Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.6	3.8	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
o-Xylene	ND		0.96	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Styrene	ND		0.96	0.30	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
tert-Butylbenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Tetrachloroethene	ND		0.96	0.21	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Toluene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Trichloroethene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Vinyl acetate	ND		9.6	3.8	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Vinyl chloride	ND		0.96	0.36	ug/Kg		09/20/25 08:30	09/20/25 14:09	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		09/20/25 08:30	09/20/25 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*32 - 179*	*09/20/25 08:30*	*09/20/25 14:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*09/20/25 08:30*	*09/20/25 14:09*	*1*
Dibromofluoromethane (Surr)	*98*		*58 - 147*	*09/20/25 08:30*	*09/20/25 14:09*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*09/20/25 08:30*	*09/20/25 14:09*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.099	0.044	mg/Kg		09/21/25 15:17	09/21/25 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*42 - 126*	*09/21/25 15:17*	*09/21/25 19:43*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		09/25/25 10:00	09/25/25 18:36	1
TPH as Motor Oil (C17-C44)	ND		25	10	mg/Kg		09/25/25 10:00	09/25/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*71*		*29 - 160*	*09/25/25 10:00*	*09/25/25 18:36*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.71	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
4,4'-DDE	ND		5.0	0.68	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Aldrin	ND		5.0	1.6	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
alpha-BHC	ND		5.0	0.59	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
beta-BHC	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Chlordane	ND		25	4.1	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
delta-BHC	ND		5.0	0.93	ug/Kg		09/19/25 11:50	09/26/25 15:50	1

Client Sample ID: CS-1

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-17

Matrix: Solid

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Endosulfan I	ND		5.0	1.1	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Endosulfan II	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Endrin	ND		5.0	0.67	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Endrin ketone	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
gamma-BHC (Lindane)	ND		5.0	0.51	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Heptachlor	ND		5.0	0.60	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Methoxychlor	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 15:50	1
Toxaphene	ND		25	15	ug/Kg		09/19/25 11:50	09/26/25 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*38 - 148*	*09/19/25 11:50*	*09/26/25 15:50*	*1*
DCB Decachlorobiphenyl (Surr)	*122*		*37 - 151*	*09/19/25 11:50*	*09/26/25 15:50*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 13:58	1
Aroclor-1221	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 13:58	1
Aroclor-1232	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 13:58	1
Aroclor-1242	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 13:58	1
Aroclor-1248	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 13:58	1
Aroclor-1254	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 13:58	1
Aroclor-1260	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*25 - 120*	*09/19/25 11:50*	*09/26/25 13:58*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*20 - 120*	*09/19/25 11:50*	*09/26/25 13:58*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.299**	**J**	0.421	0.170	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Arsenic	**5.36**		0.421	0.0664	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Barium	**149**		0.421	0.233	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Beryllium	**0.671**		0.421	0.336	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Cadmium	**0.332**	**J**	0.421	0.0607	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Chromium	**21.3**		0.421	0.321	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Cobalt	**8.59**		0.421	0.0432	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Copper	**15.1**		0.421	0.0781	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Lead	**9.51**		0.421	0.233	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Molybdenum	**0.936**		0.421	0.207	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Nickel	**15.2**		0.421	0.286	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Selenium	**1.58**		0.421	0.321	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Silver	ND		0.843	0.432	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Thallium	**0.191**	**J**	0.421	0.134	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Vanadium	**41.1**		0.421	0.158	mg/Kg		09/18/25 10:11	09/18/25 18:22	5
Zinc	**52.7**		4.21	2.54	mg/Kg		09/18/25 10:11	09/18/25 18:22	5

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-1
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-17
Matrix: Solid

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		09/25/25 09:57	09/25/25 12:25	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-2
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-18
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1,1-Trichloroethane	ND		0.96	0.22	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.44	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1,2-Trichloroethane	ND		0.96	0.45	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1-Dichloroethene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2,4-Trichlorobenzene	ND		1.9	0.39	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2,4-Trimethylbenzene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2-Dichloroethane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,2-Dichloropropane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
1,4-Dichlorobenzene	ND		0.96	0.30	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
2-Butanone (MEK)	ND		19	4.3	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
2-Hexanone	ND		19	3.0	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		19	2.8	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Acetone	**10**	**J**	19	9.5	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Benzene	ND		0.96	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Bromobenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Bromoform	ND		4.8	1.3	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Bromomethane	ND		19	6.3	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
cis-1,2-Dichloroethene	ND		0.96	0.32	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
cis-1,3-Dichloropropene	ND		0.96	0.34	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Carbon disulfide	ND		9.6	0.38	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Chlorobenzene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Chloroethane	ND		1.9	0.31	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Chloroform	ND		0.96	0.57	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Chloromethane	ND		19	1.5	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Dibromomethane	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Ethylbenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Isopropylbenzene	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Methylene Chloride	ND		9.6	3.0	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		09/20/25 08:30	09/20/25 14:30	1

Client Sample ID: CS-2

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-18

Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.6	3.8	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
o-Xylene	ND		0.96	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Styrene	ND		0.96	0.30	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
tert-Butylbenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Tetrachloroethene	ND		0.96	0.21	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Toluene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Trichloroethene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Vinyl acetate	ND		9.6	3.8	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Vinyl chloride	ND		0.96	0.36	ug/Kg		09/20/25 08:30	09/20/25 14:30	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		09/20/25 08:30	09/20/25 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 179*	*09/20/25 08:30*	*09/20/25 14:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*09/20/25 08:30*	*09/20/25 14:30*	*1*
Dibromofluoromethane (Surr)	*97*		*58 - 147*	*09/20/25 08:30*	*09/20/25 14:30*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*09/20/25 08:30*	*09/20/25 14:30*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.096	0.042	mg/Kg		09/21/25 15:17	09/21/25 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*42 - 126*	*09/21/25 15:17*	*09/21/25 20:07*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		09/25/25 10:00	09/25/25 18:57	1
TPH as Motor Oil (C17-C44)	ND		24	10	mg/Kg		09/25/25 10:00	09/25/25 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*57*		*29 - 160*	*09/25/25 10:00*	*09/25/25 18:57*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.71	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
4,4'-DDE	ND		5.0	0.68	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Aldrin	ND		5.0	1.6	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
alpha-BHC	ND		5.0	0.59	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
beta-BHC	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Chlordane	ND		25	4.1	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
delta-BHC	ND		5.0	0.93	ug/Kg		09/19/25 11:50	09/26/25 16:05	1

Client Sample ID: CS-2

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-18

Matrix: Solid

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Endosulfan I	ND		5.0	1.1	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Endosulfan II	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Endrin	ND		5.0	0.67	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Endrin ketone	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
gamma-BHC (Lindane)	ND		5.0	0.51	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Heptachlor	ND		5.0	0.60	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Methoxychlor	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 16:05	1
Toxaphene	ND		25	15	ug/Kg		09/19/25 11:50	09/26/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*73*		*38 - 148*	*09/19/25 11:50*	*09/26/25 16:05*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 151*	*09/19/25 11:50*	*09/26/25 16:05*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:11	1
Aroclor-1221	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:11	1
Aroclor-1232	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:11	1
Aroclor-1242	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:11	1
Aroclor-1248	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:11	1
Aroclor-1254	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 14:11	1
Aroclor-1260	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*25 - 120*	*09/19/25 11:50*	*09/26/25 14:11*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*20 - 120*	*09/19/25 11:50*	*09/26/25 14:11*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.283**	**J**	0.515	0.208	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Arsenic	**5.28**		0.515	0.0812	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Barium	**155**		0.515	0.285	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Beryllium	**0.704**		0.515	0.411	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Cadmium	**0.399**	**J**	0.515	0.0742	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Chromium	**22.6**		0.515	0.393	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Cobalt	**10.8**		0.515	0.0528	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Copper	**16.1**		0.515	0.0955	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Lead	**9.88**		0.515	0.285	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Molybdenum	**1.03**		0.515	0.253	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Nickel	**16.4**		0.515	0.350	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Selenium	**1.37**		0.515	0.392	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Silver	ND		1.03	0.528	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Thallium	**0.186**	**J**	0.515	0.164	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Vanadium	**41.2**		0.515	0.193	mg/Kg		09/18/25 10:11	09/18/25 18:25	5
Zinc	**54.1**		5.15	3.11	mg/Kg		09/18/25 10:11	09/18/25 18:25	5

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-2

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-18

Matrix: Solid

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0479	J	0.0887	0.0245	mg/Kg		09/25/25 09:57	09/25/25 12:41	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-3
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-19
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1,1-Trichloroethane	ND		0.96	0.22	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.44	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1,2-Trichloroethane	ND		0.96	0.45	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1-Dichloroethene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2,4-Trichlorobenzene	ND		1.9	0.39	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2,4-Trimethylbenzene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2-Dichloroethane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,2-Dichloropropane	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
1,4-Dichlorobenzene	ND		0.96	0.30	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
2-Butanone (MEK)	ND		19	4.3	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
2-Hexanone	ND		19	3.0	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
4-Methyl-2-pentanone (MIBK)	ND		19	2.8	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Acetone	**11**	**J**	19	9.5	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Benzene	ND		0.96	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Bromobenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Bromoform	ND		4.8	1.3	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Bromomethane	ND		19	6.3	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
cis-1,2-Dichloroethene	ND		0.96	0.32	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
cis-1,3-Dichloropropene	ND		0.96	0.34	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Carbon disulfide	ND		9.6	0.38	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Chlorobenzene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Chloroethane	ND		1.9	0.31	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Chloroform	ND		0.96	0.57	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Chloromethane	ND		19	1.5	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Dibromomethane	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Ethylbenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Isopropylbenzene	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Methylene Chloride	ND		9.6	3.0	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		09/20/25 08:30	09/20/25 14:51	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-3
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-19
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.6	3.8	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
o-Xylene	ND		0.96	0.25	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Styrene	ND		0.96	0.30	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
tert-Butylbenzene	ND		0.96	0.24	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Tetrachloroethene	ND		0.96	0.21	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Toluene	ND		0.96	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Trichloroethene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Vinyl acetate	ND		9.6	3.8	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Vinyl chloride	ND		0.96	0.36	ug/Kg		09/20/25 08:30	09/20/25 14:51	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		09/20/25 08:30	09/20/25 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*32 - 179*	*09/20/25 08:30*	*09/20/25 14:51*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*09/20/25 08:30*	*09/20/25 14:51*	*1*
Dibromofluoromethane (Surr)	*99*		*58 - 147*	*09/20/25 08:30*	*09/20/25 14:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*09/20/25 08:30*	*09/20/25 14:51*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.096	0.042	mg/Kg		09/21/25 15:17	09/21/25 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*42 - 126*	*09/21/25 15:17*	*09/21/25 20:31*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		09/25/25 10:00	09/25/25 19:19	1
TPH as Motor Oil (C17-C44)	ND		25	10	mg/Kg		09/25/25 10:00	09/25/25 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*75*		*29 - 160*	*09/25/25 10:00*	*09/25/25 19:19*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
4,4'-DDE	ND		5.0	0.69	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Aldrin	ND		5.0	1.6	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
alpha-BHC	ND		5.0	0.59	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
beta-BHC	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Chlordane	ND		25	4.1	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
delta-BHC	ND		5.0	0.93	ug/Kg		09/19/25 11:50	09/26/25 16:20	1

Client Sample ID: CS-3
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-19
Matrix: Solid

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Endosulfan I	ND		5.0	1.1	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Endosulfan II	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Endrin	ND		5.0	0.67	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Endrin ketone	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
gamma-BHC (Lindane)	ND		5.0	0.51	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Heptachlor	ND		5.0	0.60	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Methoxychlor	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 16:20	1
Toxaphene	ND		25	15	ug/Kg		09/19/25 11:50	09/26/25 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*59*		*38 - 148*	*09/19/25 11:50*	*09/26/25 16:20*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 151*	*09/19/25 11:50*	*09/26/25 16:20*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:25	1
Aroclor-1221	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:25	1
Aroclor-1232	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:25	1
Aroclor-1242	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:25	1
Aroclor-1248	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:25	1
Aroclor-1254	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 14:25	1
Aroclor-1260	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*25 - 120*	*09/19/25 11:50*	*09/26/25 14:25*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*20 - 120*	*09/19/25 11:50*	*09/26/25 14:25*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.323**	**J**	0.450	0.181	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Arsenic	**5.10**		0.450	0.0709	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Barium	**168**		0.450	0.248	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Beryllium	**0.731**		0.450	0.359	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Cadmium	**0.383**	**J**	0.450	0.0647	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Chromium	**24.1**		0.450	0.343	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Cobalt	**12.6**		0.450	0.0460	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Copper	**15.9**		0.450	0.0833	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Lead	**9.79**		0.450	0.248	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Molybdenum	**0.918**		0.450	0.221	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Nickel	**17.4**		0.450	0.305	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Selenium	**1.67**		0.450	0.342	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Silver	ND		0.899	0.461	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Thallium	**0.193**	**J**	0.450	0.143	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Vanadium	**42.8**		0.450	0.169	mg/Kg		09/18/25 10:11	09/18/25 18:33	5
Zinc	**57.2**		4.50	2.71	mg/Kg		09/18/25 10:11	09/18/25 18:33	5

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-3
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-19
Matrix: Solid

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0289	J	0.0801	0.0221	mg/Kg		09/25/25 09:57	09/25/25 12:43	1

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-4
Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-20
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.97	0.28	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1,1-Trichloroethane	ND		0.97	0.23	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.24	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	0.45	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1,2-Trichloroethane	ND		0.97	0.45	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1-Dichloroethane	ND		0.97	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1-Dichloroethene	ND		0.97	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,1-Dichloropropene	ND		1.9	0.38	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2,3-Trichloropropane	ND		1.9	0.41	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2,4-Trichlorobenzene	ND		1.9	0.40	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2,4-Trimethylbenzene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2-Dibromo-3-Chloropropane	ND		9.7	3.2	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2-Dibromoethane	ND		0.97	0.20	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2-Dichlorobenzene	ND		0.97	0.24	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2-Dichloroethane	ND		0.97	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,2-Dichloropropane	ND		0.97	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,3-Dichlorobenzene	ND		0.97	0.24	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,3-Dichloropropane	ND		0.97	0.29	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
1,4-Dichlorobenzene	ND		0.97	0.30	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
2-Butanone (MEK)	ND		19	4.4	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
2-Chlorotoluene	ND		0.97	0.24	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
2-Hexanone	ND		19	3.0	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
4-Chlorotoluene	ND		0.97	0.23	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		19	2.8	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Acetone	**17**	**J**	19	9.5	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Benzene	ND		0.97	0.25	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Bromobenzene	ND		0.97	0.20	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Bromodichloromethane	ND		0.97	0.31	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Bromoform	ND		4.8	1.3	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Bromomethane	ND		19	6.4	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
cis-1,2-Dichloroethene	ND		0.97	0.33	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
cis-1,3-Dichloropropene	ND		0.97	0.34	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Carbon disulfide	ND		9.7	0.39	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Carbon tetrachloride	ND		0.97	0.29	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Chlorobenzene	ND		0.97	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Chloroethane	ND		1.9	0.31	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Chloroform	ND		0.97	0.57	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Chloromethane	ND		19	1.5	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Dibromomethane	ND		0.97	0.30	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Ethylbenzene	ND		0.97	0.20	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Isopropylbenzene	ND		0.97	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Methylene Chloride	ND		9.7	3.0	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		09/20/25 08:30	09/20/25 15:12	1

Client Sample ID: CS-4

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-20

Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.7	3.8	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
n-Butylbenzene	ND		0.97	0.20	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
o-Xylene	ND		0.97	0.25	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
p-Isopropyltoluene	ND		0.97	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
sec-Butylbenzene	ND		0.97	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Styrene	ND		0.97	0.31	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
trans-1,2-Dichloroethene	ND		0.97	0.29	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
tert-Butylbenzene	ND		0.97	0.25	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Tetrachloroethene	ND		0.97	0.22	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Toluene	ND		0.97	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Trichloroethene	ND		1.9	0.37	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Trichlorofluoromethane	ND		9.7	0.26	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Vinyl acetate	ND		9.7	3.8	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Vinyl chloride	ND		0.97	0.37	ug/Kg		09/20/25 08:30	09/20/25 15:12	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		09/20/25 08:30	09/20/25 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*32 - 179*	*09/20/25 08:30*	*09/20/25 15:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*09/20/25 08:30*	*09/20/25 15:12*	*1*
Dibromofluoromethane (Surr)	*100*		*58 - 147*	*09/20/25 08:30*	*09/20/25 15:12*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*09/20/25 08:30*	*09/20/25 15:12*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.098	0.043	mg/Kg		09/21/25 15:17	09/21/25 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*42 - 126*	*09/21/25 15:17*	*09/21/25 20:55*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		09/25/25 10:00	09/25/25 19:41	1
TPH as Motor Oil (C17-C44)	ND		25	10	mg/Kg		09/25/25 10:00	09/25/25 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*74*		*29 - 160*	*09/25/25 10:00*	*09/25/25 19:41*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.71	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
4,4'-DDE	ND		5.0	0.68	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Aldrin	ND		5.0	1.6	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
alpha-BHC	ND		5.0	0.59	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
beta-BHC	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Chlordane	ND		25	4.1	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
delta-BHC	ND		5.0	0.93	ug/Kg		09/19/25 11:50	09/26/25 16:35	1

Client Sample ID: CS-4

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-20

Matrix: Solid

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Endosulfan I	ND		5.0	1.1	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Endosulfan II	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Endrin	ND		5.0	0.67	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Endrin ketone	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
gamma-BHC (Lindane)	ND		5.0	0.51	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Heptachlor	ND		5.0	0.60	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Methoxychlor	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/26/25 16:35	1
Toxaphene	ND		25	15	ug/Kg		09/19/25 11:50	09/26/25 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*38 - 148*	*09/19/25 11:50*	*09/26/25 16:35*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 151*	*09/19/25 11:50*	*09/26/25 16:35*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:38	1
Aroclor-1221	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:38	1
Aroclor-1232	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:38	1
Aroclor-1242	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:38	1
Aroclor-1248	ND		50	39	ug/Kg		09/19/25 11:50	09/26/25 14:38	1
Aroclor-1254	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 14:38	1
Aroclor-1260	ND		50	25	ug/Kg		09/19/25 11:50	09/26/25 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*25 - 120*	*09/19/25 11:50*	*09/26/25 14:38*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*20 - 120*	*09/19/25 11:50*	*09/26/25 14:38*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.298**	**J**	0.513	0.207	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Arsenic	**5.46**		0.513	0.0808	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Barium	**155**		0.513	0.283	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Beryllium	**0.746**		0.513	0.409	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Cadmium	**0.320**	**J**	0.513	0.0738	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Chromium	**22.5**		0.513	0.391	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Cobalt	**8.10**		0.513	0.0525	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Copper	**15.4**		0.513	0.0951	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Lead	**9.72**		0.513	0.283	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Molybdenum	**0.859**		0.513	0.252	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Nickel	**15.1**		0.513	0.348	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Selenium	**1.59**		0.513	0.390	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Silver	ND		1.03	0.525	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Thallium	**0.188**	**J**	0.513	0.163	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Vanadium	**42.6**		0.513	0.192	mg/Kg		09/18/25 10:11	09/18/25 18:36	5
Zinc	**55.2**		5.13	3.10	mg/Kg		09/18/25 10:11	09/18/25 18:36	5

Client Sample Results

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-4

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-20

Matrix: Solid

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0300	J	0.0833	0.0230	mg/Kg		09/25/25 09:57	09/25/25 12:45	1

Surrogate Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(32-179)	(80-120)	(58-147)	(80-120)
570-246746-17	CS-1	105	97	98	100
570-246746-18	CS-2	101	96	97	98
570-246746-19	CS-3	106	96	99	98
570-246746-20	CS-4	107	95	100	98
LCS 570-628432/1-A	Lab Control Sample	93	97	95	99
LCSD 570-628432/2-A	Lab Control Sample Dup	98	99	97	101
MB 570-628432/3-A	Method Blank	98	96	96	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(42-126)
570-246746-17	CS-1	86
570-246746-18	CS-2	86
570-246746-19	CS-3	79
570-246746-20	CS-4	84
LCS 570-628692/1-A	Lab Control Sample	98
LCSD 570-628692/2-A	Lab Control Sample Dup	96
MB 570-628692/3-A	Method Blank	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(29-160)
570-246746-17	CS-1	71
570-246746-18	CS-2	57
570-246746-19	CS-3	75
570-246746-20	CS-4	74
LCS 570-629886/2-A	Lab Control Sample	78
LCS 570-629886/8-A	Lab Control Sample	76
LCSD 570-629886/3-A	Lab Control Sample Dup	76
LCSD 570-629886/9-A	Lab Control Sample Dup	76
MB 570-629886/1-A	Method Blank	91

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Surrogate Summary

Client: Padre Associates, Inc. Job ID: 570-246746-1
Project/Site: Tustin USD-Proposed District Offices SDG: Legacy Road, Tustin CA

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB2
Lab Sample ID	Client Sample ID	(38-148)	(37-151)
570-246746-17	CS-1	84	122
570-246746-20	CS-4	70	99

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(38-148)	(37-151)
570-246746-18	CS-2	73	106
570-246746-19	CS-3	59	83
LCS 570-628060/2-A	Lab Control Sample	80	86
LCSD 570-628060/3-A	Lab Control Sample Dup	81	87
MB 570-628060/1-A	Method Blank	81	90

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(25-120)	(20-120)
570-246746-17	CS-1	89	97
570-246746-18	CS-2	86	95
570-246746-19	CS-3	83	92
570-246746-20	CS-4	87	94
LCS 570-628060/6-A	Lab Control Sample	95	101
LCSD 570-628060/7-A	Lab Control Sample Dup	91	106
MB 570-628060/1-A	Method Blank	92	99

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-628432/3-A
Matrix: Solid
Analysis Batch: 628406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2,3-Trichlorobenzene	ND		2.0	0.38	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2,4-Trimethylbenzene	ND		2.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2-Dibromo-3-Chloropropane	ND		10	3.3	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
2-Butanone (MEK)	ND		20	4.5	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
2-Hexanone	ND		20	3.1	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
4-Methyl-2-pentanone (MIBK)	ND		20	2.9	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Acetone	ND		20	9.8	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Benzene	ND		1.0	0.26	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Bromobenzene	ND		1.0	0.21	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Bromoform	ND		5.0	1.3	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Bromomethane	ND		20	6.6	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Carbon disulfide	ND		10	0.40	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Chloroethane	ND		2.0	0.32	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Chloroform	ND		1.0	0.59	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Chloromethane	ND		20	1.5	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Dibromomethane	ND		1.0	0.31	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Methylene Chloride	ND		10	3.1	ug/Kg		09/20/25 08:30	09/20/25 10:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-628432/3-A
Matrix: Solid
Analysis Batch: 628406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Naphthalene	ND		10	3.9	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
o-Xylene	ND		1.0	0.26	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Styrene	ND		1.0	0.32	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Toluene	ND		1.0	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Trichloroethene	ND		2.0	0.39	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Vinyl acetate	ND		10	3.9	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		09/20/25 08:30	09/20/25 10:18	1
Xylenes, Total	ND		2.0	0.60	ug/Kg		09/20/25 08:30	09/20/25 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*32 - 179*	*09/20/25 08:30*	*09/20/25 10:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*09/20/25 08:30*	*09/20/25 10:18*	*1*
Dibromofluoromethane (Surr)	*96*		*58 - 147*	*09/20/25 08:30*	*09/20/25 10:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*09/20/25 08:30*	*09/20/25 10:18*	*1*

Lab Sample ID: LCS 570-628432/1-A
Matrix: Solid
Analysis Batch: 628406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.09		ug/Kg		108	80 - 125
1,1,1-Trichloroethane	50.0	50.82		ug/Kg		102	78 - 130
1,1,2,2-Tetrachloroethane	50.0	52.74		ug/Kg		105	80 - 124
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.49		ug/Kg		109	73 - 130
1,1,2-Trichloroethane	50.0	49.47		ug/Kg		99	80 - 123
1,1-Dichloroethane	50.0	50.67		ug/Kg		101	79 - 124
1,1-Dichloroethene	50.0	51.21		ug/Kg		102	74 - 132
1,1-Dichloropropene	50.0	49.17		ug/Kg		98	78 - 130
1,2,3-Trichlorobenzene	50.0	53.67		ug/Kg		107	80 - 123
1,2,3-Trichloropropane	50.0	50.59		ug/Kg		101	79 - 120
1,2,4-Trichlorobenzene	50.0	54.43		ug/Kg		109	80 - 125
1,2,4-Trimethylbenzene	50.0	51.94		ug/Kg		104	80 - 124
1,2-Dibromo-3-Chloropropane	50.0	52.33		ug/Kg		105	67 - 120
1,2-Dibromoethane	50.0	51.15		ug/Kg		102	80 - 120
1,2-Dichlorobenzene	50.0	53.01		ug/Kg		106	80 - 120
1,2-Dichloroethane	50.0	47.59		ug/Kg		95	77 - 120
1,2-Dichloropropane	50.0	48.20		ug/Kg		96	80 - 126

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-628432/1-A
Matrix: Solid
Analysis Batch: 628406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	51.56		ug/Kg		103	80 - 121
1,3-Dichlorobenzene	50.0	52.67		ug/Kg		105	80 - 120
1,3-Dichloropropane	50.0	48.37		ug/Kg		97	80 - 120
1,4-Dichlorobenzene	50.0	52.20		ug/Kg		104	80 - 120
2,2-Dichloropropane	50.0	48.25		ug/Kg		96	73 - 135
2-Butanone (MEK)	50.0	49.93		ug/Kg		100	67 - 136
2-Chlorotoluene	50.0	51.12		ug/Kg		102	80 - 120
2-Hexanone	50.0	51.59		ug/Kg		103	70 - 137
4-Chlorotoluene	50.0	51.85		ug/Kg		104	80 - 121
4-Methyl-2-pentanone (MIBK)	50.0	53.53		ug/Kg		107	74 - 124
Acetone	50.0	49.32		ug/Kg		99	61 - 142
Benzene	50.0	48.91		ug/Kg		98	80 - 120
Bromobenzene	50.0	51.59		ug/Kg		103	80 - 120
Bromochloromethane	50.0	50.15		ug/Kg		100	80 - 120
Bromodichloromethane	50.0	51.17		ug/Kg		102	80 - 125
Bromoform	50.0	59.75		ug/Kg		119	74 - 138
Bromomethane	50.0	53.70		ug/Kg		107	58 - 136
cis-1,2-Dichloroethene	50.0	48.76		ug/Kg		98	80 - 124
cis-1,3-Dichloropropene	50.0	51.16		ug/Kg		102	80 - 123
Carbon disulfide	50.0	49.83		ug/Kg		100	68 - 128
Carbon tetrachloride	50.0	57.33		ug/Kg		115	75 - 140
Chlorobenzene	50.0	50.83		ug/Kg		102	80 - 120
Chloroethane	50.0	48.28		ug/Kg		97	76 - 137
Chloroform	50.0	47.32		ug/Kg		95	80 - 121
Chloromethane	50.0	41.36		ug/Kg		83	74 - 133
Dibromochloromethane	50.0	54.89		ug/Kg		110	80 - 132
Dibromomethane	50.0	50.05		ug/Kg		100	80 - 120
Dichlorodifluoromethane	50.0	50.43		ug/Kg		101	63 - 146
Ethylbenzene	50.0	49.98		ug/Kg		100	80 - 120
Isopropylbenzene	50.0	52.13		ug/Kg		104	80 - 122
Methylene Chloride	50.0	48.07		ug/Kg		96	74 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	50.21		ug/Kg		100	79 - 123
Naphthalene	50.0	52.53		ug/Kg		105	79 - 121
n-Butylbenzene	50.0	55.06		ug/Kg		110	79 - 131
N-Propylbenzene	50.0	51.28		ug/Kg		103	80 - 122
o-Xylene	50.0	50.70		ug/Kg		101	80 - 120
m,p-Xylene	100	99.91		ug/Kg		100	80 - 120
p-Isopropyltoluene	50.0	53.91		ug/Kg		108	80 - 126
sec-Butylbenzene	50.0	54.34		ug/Kg		109	80 - 125
Styrene	50.0	49.85		ug/Kg		100	80 - 120
trans-1,2-Dichloroethene	50.0	51.64		ug/Kg		103	75 - 123
trans-1,3-Dichloropropene	50.0	47.78		ug/Kg		96	80 - 124
tert-Butylbenzene	50.0	53.82		ug/Kg		108	80 - 124
Tetrachloroethene	50.0	52.59		ug/Kg		105	80 - 122
Toluene	50.0	51.34		ug/Kg		103	80 - 120
Trichloroethene	50.0	51.64		ug/Kg		103	80 - 127
Trichlorofluoromethane	50.0	51.84		ug/Kg		104	70 - 144
Vinyl acetate	50.0	49.92		ug/Kg		100	71 - 125
Vinyl chloride	50.0	49.99		ug/Kg		100	79 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		32 - 179
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	95		58 - 147
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-628432/2-A
Matrix: Solid
Analysis Batch: 628406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	55.71		ug/Kg		111	80 - 125	3	20
1,1,1-Trichloroethane			50.0	52.77		ug/Kg		106	78 - 130	4	20
1,1,2,2-Tetrachloroethane			50.0	52.99		ug/Kg		106	80 - 124	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	56.74		ug/Kg		113	73 - 130	4	20
1,1,2-Trichloroethane			50.0	50.89		ug/Kg		102	80 - 123	3	20
1,1-Dichloroethane			50.0	53.26		ug/Kg		107	79 - 124	5	20
1,1-Dichloroethene			50.0	53.32		ug/Kg		107	74 - 132	4	20
1,1-Dichloropropene			50.0	51.53		ug/Kg		103	78 - 130	5	20
1,2,3-Trichlorobenzene			50.0	52.49		ug/Kg		105	80 - 123	2	20
1,2,3-Trichloropropane			50.0	52.35		ug/Kg		105	79 - 120	3	20
1,2,4-Trichlorobenzene			50.0	53.86		ug/Kg		108	80 - 125	1	20
1,2,4-Trimethylbenzene			50.0	50.89		ug/Kg		102	80 - 124	2	20
1,2-Dibromo-3-Chloropropane			50.0	53.44		ug/Kg		107	67 - 120	2	20
1,2-Dibromoethane			50.0	52.33		ug/Kg		105	80 - 120	2	20
1,2-Dichlorobenzene			50.0	51.89		ug/Kg		104	80 - 120	2	20
1,2-Dichloroethane			50.0	49.54		ug/Kg		99	77 - 120	4	20
1,2-Dichloropropane			50.0	50.13		ug/Kg		100	80 - 126	4	20
1,3,5-Trimethylbenzene			50.0	52.67		ug/Kg		105	80 - 121	2	20
1,3-Dichlorobenzene			50.0	51.54		ug/Kg		103	80 - 120	2	20
1,3-Dichloropropane			50.0	49.95		ug/Kg		100	80 - 120	3	20
1,4-Dichlorobenzene			50.0	51.13		ug/Kg		102	80 - 120	2	20
2,2-Dichloropropane			50.0	50.27		ug/Kg		101	73 - 135	4	20
2-Butanone (MEK)			50.0	55.54		ug/Kg		111	67 - 136	11	20
2-Chlorotoluene			50.0	51.57		ug/Kg		103	80 - 120	1	20
2-Hexanone			50.0	55.78		ug/Kg		112	70 - 137	8	20
4-Chlorotoluene			50.0	50.97		ug/Kg		102	80 - 121	2	20
4-Methyl-2-pentanone (MIBK)			50.0	56.73		ug/Kg		113	74 - 124	6	20
Acetone			50.0	53.72		ug/Kg		107	61 - 142	9	23
Benzene			50.0	50.94		ug/Kg		102	80 - 120	4	20
Bromobenzene			50.0	52.41		ug/Kg		105	80 - 120	2	20
Bromochloromethane			50.0	52.14		ug/Kg		104	80 - 120	4	20
Bromodichloromethane			50.0	53.63		ug/Kg		107	80 - 125	5	20
Bromoform			50.0	60.81		ug/Kg		122	74 - 138	2	20
Bromomethane			50.0	55.49		ug/Kg		111	58 - 136	3	20
cis-1,2-Dichloroethene			50.0	51.43		ug/Kg		103	80 - 124	5	20
cis-1,3-Dichloropropene			50.0	53.05		ug/Kg		106	80 - 123	4	20
Carbon disulfide			50.0	52.84		ug/Kg		106	68 - 128	6	20
Carbon tetrachloride			50.0	59.74		ug/Kg		119	75 - 140	4	20
Chlorobenzene			50.0	51.86		ug/Kg		104	80 - 120	2	20
Chloroethane			50.0	50.81		ug/Kg		102	76 - 137	5	20
Chloroform			50.0	49.91		ug/Kg		100	80 - 121	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-628432/2-A
Matrix: Solid
Analysis Batch: 628406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	43.81		ug/Kg		88	74 - 133	6	20
Dibromochloromethane			50.0	56.63		ug/Kg		113	80 - 132	3	20
Dibromomethane			50.0	52.35		ug/Kg		105	80 - 120	4	20
Dichlorodifluoromethane			50.0	52.42		ug/Kg		105	63 - 146	4	20
Ethylbenzene			50.0	51.15		ug/Kg		102	80 - 120	2	20
Isopropylbenzene			50.0	52.95		ug/Kg		106	80 - 122	2	20
Methylene Chloride			50.0	49.26		ug/Kg		99	74 - 120	2	20
Methyl-t-Butyl Ether (MTBE)			50.0	52.65		ug/Kg		105	79 - 123	5	20
Naphthalene			50.0	52.19		ug/Kg		104	79 - 121	1	20
n-Butylbenzene			50.0	53.37		ug/Kg		107	79 - 131	3	20
N-Propylbenzene			50.0	51.89		ug/Kg		104	80 - 122	1	20
o-Xylene			50.0	51.59		ug/Kg		103	80 - 120	2	20
m,p-Xylene			100	101.9		ug/Kg		102	80 - 120	2	20
p-Isopropyltoluene			50.0	52.87		ug/Kg		106	80 - 126	2	20
sec-Butylbenzene			50.0	53.40		ug/Kg		107	80 - 125	2	20
Styrene			50.0	50.75		ug/Kg		102	80 - 120	2	20
trans-1,2-Dichloroethene			50.0	53.54		ug/Kg		107	75 - 123	4	20
trans-1,3-Dichloropropene			50.0	49.33		ug/Kg		99	80 - 124	3	20
tert-Butylbenzene			50.0	53.45		ug/Kg		107	80 - 124	1	20
Tetrachloroethene			50.0	54.55		ug/Kg		109	80 - 122	4	20
Toluene			50.0	52.95		ug/Kg		106	80 - 120	3	20
Trichloroethene			50.0	53.38		ug/Kg		107	80 - 127	3	20
Trichlorofluoromethane			50.0	55.82		ug/Kg		112	70 - 144	7	20
Vinyl acetate			50.0	53.66		ug/Kg		107	71 - 125	7	20
Vinyl chloride			50.0	52.41		ug/Kg		105	79 - 133	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*32 - 179*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*58 - 147*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-628692/3-A
Matrix: Solid
Analysis Batch: 628671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.10	0.044	mg/Kg		09/21/25 15:17	09/21/25 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*42 - 126*	*09/21/25 15:17*	*09/21/25 16:29*	*1*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 570-628692/1-A
Matrix: Solid
Analysis Batch: 628671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628692

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			1.99	1.818		mg/Kg		91	70 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*42 - 126*

Lab Sample ID: LCSD 570-628692/2-A
Matrix: Solid
Analysis Batch: 628671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628692

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			2.00	1.709		mg/Kg		85	70 - 124	6	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*42 - 126*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-629886/1-A
Matrix: Solid
Analysis Batch: 630877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		09/25/25 10:00	09/25/25 13:11	1
TPH as Motor Oil (C17-C44)	ND		25	10	mg/Kg		09/25/25 10:00	09/25/25 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*91*		*29 - 160*	*09/25/25 10:00*	*09/25/25 13:11*	*1*

Lab Sample ID: LCS 570-629886/2-A
Matrix: Solid
Analysis Batch: 630877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629886

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	373.8		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*78*		*29 - 160*

Lab Sample ID: LCS 570-629886/8-A
Matrix: Solid
Analysis Batch: 630877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629886

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Motor Oil (C17-C44)			400	347.4		mg/Kg		87	77 - 125		

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 570-629886/8-A
Matrix: Solid
Analysis Batch: 630877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629886

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	*76*		*29 - 160*

Lab Sample ID: LCSD 570-629886/3-A
Matrix: Solid
Analysis Batch: 630877

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629886

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	369.5		mg/Kg		92	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	*76*		*29 - 160*

Lab Sample ID: LCSD 570-629886/9-A
Matrix: Solid
Analysis Batch: 630877

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629886

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)			400	333.0		mg/Kg		83	77 - 125	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	*76*		*29 - 160*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-628060/1-A
Matrix: Solid
Analysis Batch: 630624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
4,4'-DDE	ND		5.0	0.69	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Aldrin	ND		5.0	1.6	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
alpha-BHC	ND		5.0	0.59	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
beta-BHC	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Chlordane	ND		25	4.1	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
delta-BHC	ND		5.0	0.93	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Dieldrin	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Endosulfan I	ND		5.0	1.1	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Endosulfan II	ND		5.0	0.55	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Endrin	ND		5.0	0.67	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Endrin ketone	ND		5.0	0.90	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
gamma-BHC (Lindane)	ND		5.0	0.51	ug/Kg		09/19/25 11:50	09/25/25 03:24	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 570-628060/1-A
Matrix: Solid
Analysis Batch: 630624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		5.0	0.60	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Methoxychlor	ND		5.0	1.2	ug/Kg		09/19/25 11:50	09/25/25 03:24	1
Toxaphene	ND		25	15	ug/Kg		09/19/25 11:50	09/25/25 03:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*38 - 148*	*09/19/25 11:50*	*09/25/25 03:24*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 151*	*09/19/25 11:50*	*09/25/25 03:24*	*1*

Lab Sample ID: LCS 570-628060/2-A
Matrix: Solid
Analysis Batch: 630624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	25.0	16.41		ug/Kg		66	54 - 154
4,4'-DDE	25.0	16.96		ug/Kg		68	51 - 149
4,4'-DDT	25.0	17.02		ug/Kg		68	39 - 152
Aldrin	25.0	16.96		ug/Kg		68	52 - 138
alpha-BHC	25.0	17.43		ug/Kg		70	51 - 140
alpha-Chlordane	25.0	16.49		ug/Kg		66	53 - 141
beta-BHC	25.0	16.25		ug/Kg		65	53 - 141
delta-BHC	25.0	15.49		ug/Kg		62	20 - 132
Dieldrin	25.0	16.24		ug/Kg		65	52 - 144
Endosulfan I	25.0	15.92		ug/Kg		64	49 - 139
Endosulfan II	25.0	15.24		ug/Kg		61	51 - 150
Endosulfan sulfate	25.0	22.82		ug/Kg		91	45 - 139
Endrin	25.0	15.94		ug/Kg		64	53 - 151
Endrin aldehyde	25.0	15.89		ug/Kg		64	31 - 146
Endrin ketone	25.0	31.29		ug/Kg		125	51 - 150
gamma-Chlordane	25.0	16.38		ug/Kg		66	46 - 156
gamma-BHC (Lindane)	25.0	17.20		ug/Kg		69	53 - 141
Heptachlor	25.0	17.58		ug/Kg		70	52 - 144
Heptachlor epoxide	25.0	16.13		ug/Kg		65	54 - 141
Methoxychlor	25.0	15.75		ug/Kg		63	47 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*80*		*38 - 148*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 151*

Lab Sample ID: LCSD 570-628060/3-A
Matrix: Solid
Analysis Batch: 630624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628060

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	25.0	16.50		ug/Kg		66	54 - 154	1	30
4,4'-DDE	25.0	17.04		ug/Kg		68	51 - 149	0	28
4,4'-DDT	25.0	17.05		ug/Kg		68	39 - 152	0	31
Aldrin	25.0	17.08		ug/Kg		68	52 - 138	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 570-628060/3-A
Matrix: Solid
Analysis Batch: 630624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628060

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-BHC			25.0	17.48		ug/Kg		70	51 - 140	0	29
alpha-Chlordane			25.0	16.59		ug/Kg		66	53 - 141	1	28
beta-BHC			25.0	16.35		ug/Kg		65	53 - 141	1	29
delta-BHC			25.0	15.58		ug/Kg		62	20 - 132	1	40
Dieldrin			25.0	16.35		ug/Kg		65	52 - 144	1	28
Endosulfan I			25.0	15.98		ug/Kg		64	49 - 139	0	28
Endosulfan II			25.0	15.38		ug/Kg		62	51 - 150	1	29
Endosulfan sulfate			25.0	22.98		ug/Kg		92	45 - 139	1	30
Endrin			25.0	16.04		ug/Kg		64	53 - 151	1	29
Endrin aldehyde			25.0	16.53		ug/Kg		66	31 - 146	4	40
Endrin ketone			25.0	31.96		ug/Kg		128	51 - 150	2	30
gamma-Chlordane			25.0	16.51		ug/Kg		66	46 - 156	1	39
gamma-BHC (Lindane)			25.0	17.24		ug/Kg		69	53 - 141	0	29
Heptachlor			25.0	17.61		ug/Kg		70	52 - 144	0	29
Heptachlor epoxide			25.0	16.25		ug/Kg		65	54 - 141	1	29
Methoxychlor			25.0	15.86		ug/Kg		63	47 - 148	1	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*81*		*38 - 148*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 151*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-628060/1-A
Matrix: Solid
Analysis Batch: 630914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		09/19/25 11:50	09/25/25 16:38	1
Aroclor-1221	ND		50	39	ug/Kg		09/19/25 11:50	09/25/25 16:38	1
Aroclor-1232	ND		50	39	ug/Kg		09/19/25 11:50	09/25/25 16:38	1
Aroclor-1242	ND		50	39	ug/Kg		09/19/25 11:50	09/25/25 16:38	1
Aroclor-1248	ND		50	39	ug/Kg		09/19/25 11:50	09/25/25 16:38	1
Aroclor-1254	ND		50	25	ug/Kg		09/19/25 11:50	09/25/25 16:38	1
Aroclor-1260	ND		50	25	ug/Kg		09/19/25 11:50	09/25/25 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*25 - 120*	*09/19/25 11:50*	*09/25/25 16:38*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*20 - 120*	*09/19/25 11:50*	*09/25/25 16:38*	*1*

Lab Sample ID: LCS 570-628060/6-A
Matrix: Solid
Analysis Batch: 630914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628060

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	93.40		ug/Kg		93	53 - 133		
Aroclor-1260			100	101.0		ug/Kg		101	39 - 140		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 570-628060/6-A
Matrix: Solid
Analysis Batch: 630914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628060

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*95*		*25 - 120*
DCB Decachlorobiphenyl (Surr)	*101*		*20 - 120*

Lab Sample ID: LCSD 570-628060/7-A
Matrix: Solid
Analysis Batch: 630914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628060

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	95.12		ug/Kg		95	53 - 133	2	32
Aroclor-1260			100	106.1		ug/Kg		106	39 - 140	5	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*91*		*25 - 120*
DCB Decachlorobiphenyl (Surr)	*106*		*20 - 120*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 570-627377/1-A
Matrix: Solid
Analysis Batch: 627688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.469	0.189	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Arsenic	ND		0.469	0.0739	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Barium	ND		0.469	0.259	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Beryllium	ND		0.469	0.374	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Cadmium	ND		0.469	0.0675	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Chromium	ND		0.469	0.357	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Cobalt	ND		0.469	0.0480	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Copper	ND		0.469	0.0869	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Lead	ND		0.469	0.259	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Molybdenum	ND		0.469	0.231	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Nickel	ND		0.469	0.318	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Selenium	ND		0.469	0.357	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Silver	ND		0.938	0.480	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Thallium	ND		0.469	0.149	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Vanadium	ND		0.469	0.176	mg/Kg		09/18/25 10:11	09/18/25 17:08	5
Zinc	ND		4.69	2.83	mg/Kg		09/18/25 10:11	09/18/25 17:08	5

Lab Sample ID: LCS 570-627377/2-A
Matrix: Solid
Analysis Batch: 627688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony			197	214.7		mg/Kg		109	80 - 120
Arsenic			197	185.8		mg/Kg		94	80 - 120
Barium			197	212.6		mg/Kg		108	80 - 120
Beryllium			197	207.0		mg/Kg		105	80 - 120
Cadmium			197	207.4		mg/Kg		105	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 570-627377/2-A
Matrix: Solid
Analysis Batch: 627688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	197	193.1		mg/Kg		98	80 - 120
Cobalt	197	201.6		mg/Kg		102	80 - 120
Copper	197	190.6		mg/Kg		97	80 - 120
Lead	197	198.6		mg/Kg		101	80 - 120
Molybdenum	197	214.2		mg/Kg		109	80 - 120
Nickel	197	191.3		mg/Kg		97	80 - 120
Selenium	197	178.0		mg/Kg		90	80 - 120
Silver	98.5	111.2		mg/Kg		113	80 - 120
Thallium	197	190.2		mg/Kg		97	80 - 120
Vanadium	197	189.1		mg/Kg		96	80 - 120
Zinc	197	186.7		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 570-627377/3-A
Matrix: Solid
Analysis Batch: 627688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 627377

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	202	221.8		mg/Kg		110	80 - 120	3	20
Arsenic	202	188.7		mg/Kg		94	80 - 120	2	20
Barium	202	217.8		mg/Kg		108	80 - 120	2	20
Beryllium	202	213.1		mg/Kg		106	80 - 120	3	20
Cadmium	202	212.5		mg/Kg		105	80 - 120	2	20
Chromium	202	197.8		mg/Kg		98	80 - 120	2	20
Cobalt	202	206.7		mg/Kg		103	80 - 120	3	20
Copper	202	197.5		mg/Kg		98	80 - 120	4	20
Lead	202	203.7		mg/Kg		101	80 - 120	3	20
Molybdenum	202	219.5		mg/Kg		109	80 - 120	2	20
Nickel	202	196.8		mg/Kg		98	80 - 120	3	20
Selenium	202	182.6		mg/Kg		91	80 - 120	3	20
Silver	101	113.3		mg/Kg		112	80 - 120	2	20
Thallium	202	194.3		mg/Kg		96	80 - 120	2	20
Vanadium	202	195.3		mg/Kg		97	80 - 120	3	20
Zinc	202	189.3		mg/Kg		94	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-630839/1-A
Matrix: Solid
Analysis Batch: 631012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		09/25/25 09:57	09/25/25 12:19	1

Lab Sample ID: LCS 570-630839/2-A
Matrix: Solid
Analysis Batch: 631012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.377	0.3327		mg/Kg		88	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-630839/3-A
Matrix: Solid
Analysis Batch: 631012

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 630839

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.377	0.3243		mg/Kg		86	80 - 120	3	20

Lab Sample ID: 570-246746-17 MS
Matrix: Solid
Analysis Batch: 631012

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 630839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.385	0.3547		mg/Kg		92	75 - 125		

Lab Sample ID: 570-246746-17 MSD
Matrix: Solid
Analysis Batch: 631012

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 630839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.385	0.3470		mg/Kg		90	75 - 125	2	20

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

GC/MS VOA

Analysis Batch: 627142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-1	SS-1A	Total/NA	Solid	Composite	
570-246746-2	SS-1B	Total/NA	Solid	Composite	
570-246746-3	SS-1C	Total/NA	Solid	Composite	
570-246746-4	SS-1D	Total/NA	Solid	Composite	
570-246746-5	SS-2A	Total/NA	Solid	Composite	
570-246746-6	SS-2B	Total/NA	Solid	Composite	
570-246746-7	SS-2C	Total/NA	Solid	Composite	
570-246746-8	SS-2D	Total/NA	Solid	Composite	
570-246746-9	SS-3A	Total/NA	Solid	Composite	
570-246746-10	SS-3B	Total/NA	Solid	Composite	
570-246746-11	SS-3C	Total/NA	Solid	Composite	
570-246746-12	SS-3D	Total/NA	Solid	Composite	
570-246746-13	SS-4A	Total/NA	Solid	Composite	
570-246746-14	SS-4B	Total/NA	Solid	Composite	
570-246746-15	SS-4C	Total/NA	Solid	Composite	
570-246746-16	SS-4D	Total/NA	Solid	Composite	

Analysis Batch: 628406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	8260B	628432
570-246746-18	CS-2	Total/NA	Solid	8260B	628432
570-246746-19	CS-3	Total/NA	Solid	8260B	628432
570-246746-20	CS-4	Total/NA	Solid	8260B	628432
MB 570-628432/3-A	Method Blank	Total/NA	Solid	8260B	628432
LCS 570-628432/1-A	Lab Control Sample	Total/NA	Solid	8260B	628432
LCSD 570-628432/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	628432

Prep Batch: 628432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	5030C	
570-246746-18	CS-2	Total/NA	Solid	5030C	
570-246746-19	CS-3	Total/NA	Solid	5030C	
570-246746-20	CS-4	Total/NA	Solid	5030C	
MB 570-628432/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-628432/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-628432/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

GC VOA

Analysis Batch: 628671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	8015B	628692
570-246746-18	CS-2	Total/NA	Solid	8015B	628692
570-246746-19	CS-3	Total/NA	Solid	8015B	628692
570-246746-20	CS-4	Total/NA	Solid	8015B	628692
MB 570-628692/3-A	Method Blank	Total/NA	Solid	8015B	628692
LCS 570-628692/1-A	Lab Control Sample	Total/NA	Solid	8015B	628692
LCSD 570-628692/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	628692

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

GC VOA

Prep Batch: 628692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	5030C	
570-246746-18	CS-2	Total/NA	Solid	5030C	
570-246746-19	CS-3	Total/NA	Solid	5030C	
570-246746-20	CS-4	Total/NA	Solid	5030C	
MB 570-628692/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-628692/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-628692/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 628060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	3546	
570-246746-18	CS-2	Total/NA	Solid	3546	
570-246746-19	CS-3	Total/NA	Solid	3546	
570-246746-20	CS-4	Total/NA	Solid	3546	
MB 570-628060/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-628060/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 570-628060/6-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-628060/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 570-628060/7-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 629886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	3550C	
570-246746-18	CS-2	Total/NA	Solid	3550C	
570-246746-19	CS-3	Total/NA	Solid	3550C	
570-246746-20	CS-4	Total/NA	Solid	3550C	
MB 570-629886/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-629886/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 570-629886/8-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-629886/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 570-629886/9-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 630624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-628060/1-A	Method Blank	Total/NA	Solid	8081B	628060
LCS 570-628060/2-A	Lab Control Sample	Total/NA	Solid	8081B	628060
LCSD 570-628060/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	628060

Analysis Batch: 630877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	8015B	629886
570-246746-18	CS-2	Total/NA	Solid	8015B	629886
570-246746-19	CS-3	Total/NA	Solid	8015B	629886
570-246746-20	CS-4	Total/NA	Solid	8015B	629886
MB 570-629886/1-A	Method Blank	Total/NA	Solid	8015B	629886
LCS 570-629886/2-A	Lab Control Sample	Total/NA	Solid	8015B	629886
LCS 570-629886/8-A	Lab Control Sample	Total/NA	Solid	8015B	629886
LCSD 570-629886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	629886
LCSD 570-629886/9-A	Lab Control Sample Dup	Total/NA	Solid	8015B	629886

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

GC Semi VOA

Analysis Batch: 630914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-628060/1-A	Method Blank	Total/NA	Solid	8082	628060
LCS 570-628060/6-A	Lab Control Sample	Total/NA	Solid	8082	628060
LCSD 570-628060/7-A	Lab Control Sample Dup	Total/NA	Solid	8082	628060

Analysis Batch: 631293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	8081B	628060
570-246746-18	CS-2	Total/NA	Solid	8081B	628060
570-246746-19	CS-3	Total/NA	Solid	8081B	628060
570-246746-20	CS-4	Total/NA	Solid	8081B	628060

Analysis Batch: 631526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	8082	628060
570-246746-18	CS-2	Total/NA	Solid	8082	628060
570-246746-19	CS-3	Total/NA	Solid	8082	628060
570-246746-20	CS-4	Total/NA	Solid	8082	628060

Metals

Prep Batch: 627377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	3051A	
570-246746-18	CS-2	Total/NA	Solid	3051A	
570-246746-19	CS-3	Total/NA	Solid	3051A	
570-246746-20	CS-4	Total/NA	Solid	3051A	
MB 570-627377/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 570-627377/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 570-627377/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 627688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	6020	627377
570-246746-18	CS-2	Total/NA	Solid	6020	627377
570-246746-19	CS-3	Total/NA	Solid	6020	627377
570-246746-20	CS-4	Total/NA	Solid	6020	627377
MB 570-627377/1-A	Method Blank	Total/NA	Solid	6020	627377
LCS 570-627377/2-A	Lab Control Sample	Total/NA	Solid	6020	627377
LCSD 570-627377/3-A	Lab Control Sample Dup	Total/NA	Solid	6020	627377

Prep Batch: 630839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	7471A	
570-246746-18	CS-2	Total/NA	Solid	7471A	
570-246746-19	CS-3	Total/NA	Solid	7471A	
570-246746-20	CS-4	Total/NA	Solid	7471A	
MB 570-630839/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-630839/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-630839/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-246746-17 MS	CS-1	Total/NA	Solid	7471A	
570-246746-17 MSD	CS-1	Total/NA	Solid	7471A	

QC Association Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Metals

Analysis Batch: 631012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-17	CS-1	Total/NA	Solid	7471A	630839
570-246746-18	CS-2	Total/NA	Solid	7471A	630839
570-246746-19	CS-3	Total/NA	Solid	7471A	630839
570-246746-20	CS-4	Total/NA	Solid	7471A	630839
MB 570-630839/1-A	Method Blank	Total/NA	Solid	7471A	630839
LCS 570-630839/2-A	Lab Control Sample	Total/NA	Solid	7471A	630839
LCSD 570-630839/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	630839
570-246746-17 MS	CS-1	Total/NA	Solid	7471A	630839
570-246746-17 MSD	CS-1	Total/NA	Solid	7471A	630839

Organic Prep

Analysis Batch: 627143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-246746-1	SS-1A	Total/NA	Solid	Composite	
570-246746-2	SS-1B	Total/NA	Solid	Composite	
570-246746-3	SS-1C	Total/NA	Solid	Composite	
570-246746-4	SS-1D	Total/NA	Solid	Composite	
570-246746-5	SS-2A	Total/NA	Solid	Composite	
570-246746-6	SS-2B	Total/NA	Solid	Composite	
570-246746-7	SS-2C	Total/NA	Solid	Composite	
570-246746-8	SS-2D	Total/NA	Solid	Composite	
570-246746-9	SS-3A	Total/NA	Solid	Composite	
570-246746-10	SS-3B	Total/NA	Solid	Composite	
570-246746-11	SS-3C	Total/NA	Solid	Composite	
570-246746-12	SS-3D	Total/NA	Solid	Composite	
570-246746-13	SS-4A	Total/NA	Solid	Composite	
570-246746-14	SS-4B	Total/NA	Solid	Composite	
570-246746-15	SS-4C	Total/NA	Solid	Composite	
570-246746-16	SS-4D	Total/NA	Solid	Composite	

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-1A
Date Collected: 09/16/25 10:30
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-1B
Date Collected: 09/16/25 10:36
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-1C
Date Collected: 09/16/25 10:41
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-1D
Date Collected: 09/16/25 10:46
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-2A
Date Collected: 09/16/25 10:55
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-2B
Date Collected: 09/16/25 10:59
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-2C
Date Collected: 09/16/25 11:04
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-2D
Date Collected: 09/16/25 11:09
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-3A
Date Collected: 09/16/25 11:21
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-3B
Date Collected: 09/16/25 11:25
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-3C
Date Collected: 09/16/25 11:29
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-3D
Date Collected: 09/16/25 11:33
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-4A
Date Collected: 09/16/25 11:43
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-4B
Date Collected: 09/16/25 11:48
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: SS-4C
Date Collected: 09/16/25 11:52
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: SS-4D

Date Collected: 09/16/25 11:58
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			627142	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Composite		1			627143	09/17/25 15:00	USUL	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: CS-1

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.20 g	5 mL	628432	09/20/25 08:30	AH8S	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	628406	09/20/25 14:09	AH8S	EET CAL 4
	Instrument ID: GCMSQ									
Total/NA	Prep	5030C			5.04 g	5 mL	628692	09/21/25 15:17	YD9V	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	628671	09/21/25 19:43	YD9V	EET CAL 4
	Instrument ID: GC74									
Total/NA	Prep	3550C			10.14 g	10 mL	629886	09/25/25 10:00	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	630877	09/25/25 18:36	NR	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3546			20.07 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8081B		1	1 mL	1 mL	631293	09/26/25 15:50	N5Y3	EET CAL 4
	Instrument ID: GC52A									
Total/NA	Prep	3546			20.07 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	631526	09/26/25 13:58	SP9M	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Prep	3051A			0.5932 g	50 mL	627377	09/18/25 10:11	SXN8	EET CAL 4
Total/NA	Analysis	6020		5			627688	09/18/25 18:22	P1R	EET CAL 4
	Instrument ID: ICPMS11									
Total/NA	Prep	7471A			0.51 g	50 mL	630839	09/25/25 09:57	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			631012	09/25/25 12:25	JP8N	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: CS-2

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.20 g	5 mL	628432	09/20/25 08:30	AH8S	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	628406	09/20/25 14:30	AH8S	EET CAL 4
	Instrument ID: GCMSQ									
Total/NA	Prep	5030C			5.21 g	5 mL	628692	09/21/25 15:17	YD9V	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	628671	09/21/25 20:07	YD9V	EET CAL 4
	Instrument ID: GC74									
Total/NA	Prep	3550C			10.22 g	10 mL	629886	09/25/25 10:00	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	630877	09/25/25 18:57	NR	EET CAL 4
	Instrument ID: GC47B									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-2

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.06 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8081B		1	1 mL	1 mL	631293	09/26/25 16:05	N5Y3	EET CAL 4
	Instrument ID: GC52A									
Total/NA	Prep	3546			20.06 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	631526	09/26/25 14:11	SP9M	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Prep	3051A			0.4853 g	50 mL	627377	09/18/25 10:11	SXN8	EET CAL 4
Total/NA	Analysis	6020		5			627688	09/18/25 18:25	P1R	EET CAL 4
	Instrument ID: ICPMS11									
Total/NA	Prep	7471A			0.47 g	50 mL	630839	09/25/25 09:57	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			631012	09/25/25 12:41	JP8N	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: CS-3

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.20 g	5 mL	628432	09/20/25 08:30	AH8S	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	628406	09/20/25 14:51	AH8S	EET CAL 4
	Instrument ID: GCMSQ									
Total/NA	Prep	5030C			5.20 g	5 mL	628692	09/21/25 15:17	YD9V	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	628671	09/21/25 20:31	YD9V	EET CAL 4
	Instrument ID: GC74									
Total/NA	Prep	3550C			10.11 g	10 mL	629886	09/25/25 10:00	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	630877	09/25/25 19:19	NR	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3546			20.01 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8081B		1	1 mL	1 mL	631293	09/26/25 16:20	N5Y3	EET CAL 4
	Instrument ID: GC52A									
Total/NA	Prep	3546			20.01 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	631526	09/26/25 14:25	SP9M	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Prep	3051A			0.5561 g	50 mL	627377	09/18/25 10:11	SXN8	EET CAL 4
Total/NA	Analysis	6020		5			627688	09/18/25 18:33	P1R	EET CAL 4
	Instrument ID: ICPMS11									
Total/NA	Prep	7471A			0.52 g	50 mL	630839	09/25/25 09:57	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			631012	09/25/25 12:43	JP8N	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Client Sample ID: CS-4

Date Collected: 09/16/25 00:00
Date Received: 09/16/25 13:00

Lab Sample ID: 570-246746-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.17 g	5 mL	628432	09/20/25 08:30	AH8S	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	628406	09/20/25 15:12	AH8S	EET CAL 4
	Instrument ID: GCMSQ									
Total/NA	Prep	5030C			5.08 g	5 mL	628692	09/21/25 15:17	YD9V	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	628671	09/21/25 20:55	YD9V	EET CAL 4
	Instrument ID: GC74									
Total/NA	Prep	3550C			10.00 g	10 mL	629886	09/25/25 10:00	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	630877	09/25/25 19:41	NR	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3546			20.09 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8081B		1	1 mL	1 mL	631293	09/26/25 16:35	N5Y3	EET CAL 4
	Instrument ID: GC52A									
Total/NA	Prep	3546			20.09 g	10 mL	628060	09/19/25 11:50	XG8M	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	631526	09/26/25 14:38	SP9M	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Prep	3051A			0.4875 g	50 mL	627377	09/18/25 10:11	SXN8	EET CAL 4
Total/NA	Analysis	6020		5			627688	09/18/25 18:36	P1R	EET CAL 4
	Instrument ID: ICPMS11									
Total/NA	Prep	7471A			0.50 g	50 mL	630839	09/25/25 09:57	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			631012	09/25/25 12:45	JP8N	EET CAL 4
	Instrument ID: HG8									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Padre Associates, Inc. Job ID: 570-246746-1
Project/Site: Tustin USD-Proposed District Offices SDG: Legacy Road, Tustin CA

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081B	3546	Solid	alpha-Chlordane
8081B	3546	Solid	gamma-Chlordane
8260B	5030C	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5030C	Solid	1,1-Dichloropropene
8260B	5030C	Solid	1,2,3-Trichlorobenzene
8260B	5030C	Solid	1,2,4-Trimethylbenzene
8260B	5030C	Solid	1,3,5-Trimethylbenzene
8260B	5030C	Solid	1,3-Dichloropropane
8260B	5030C	Solid	2,2-Dichloropropane
8260B	5030C	Solid	2-Butanone (MEK)
8260B	5030C	Solid	2-Chlorotoluene
8260B	5030C	Solid	2-Hexanone
8260B	5030C	Solid	Acetone
8260B	5030C	Solid	Isopropylbenzene
8260B	5030C	Solid	p-Isopropyltoluene
8260B	5030C	Solid	Vinyl acetate
Composite		Solid	Composited

Oregon	NELAP		4175	02-02-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Composite		Solid	Composited

Method Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
Composite	Sample Compositing	None	EET CAL 4
8015B	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
8081B	Organochlorine Pesticides (GC)	SW846	EET CAL 4
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
6020	Metals (ICP/MS)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3051A	Preparation, Metals, Microwave Assisted	SW846	EET CAL 4
3546	Microwave Extraction	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Padre Associates, Inc.
Project/Site: Tustin USD-Proposed District Offices

Job ID: 570-246746-1
SDG: Legacy Road, Tustin CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-246746-1	SS-1A	Solid	09/16/25 10:30	09/16/25 13:00	California
570-246746-2	SS-1B	Solid	09/16/25 10:36	09/16/25 13:00	California
570-246746-3	SS-1C	Solid	09/16/25 10:41	09/16/25 13:00	California
570-246746-4	SS-1D	Solid	09/16/25 10:46	09/16/25 13:00	California
570-246746-5	SS-2A	Solid	09/16/25 10:55	09/16/25 13:00	California
570-246746-6	SS-2B	Solid	09/16/25 10:59	09/16/25 13:00	California
570-246746-7	SS-2C	Solid	09/16/25 11:04	09/16/25 13:00	California
570-246746-8	SS-2D	Solid	09/16/25 11:09	09/16/25 13:00	California
570-246746-9	SS-3A	Solid	09/16/25 11:21	09/16/25 13:00	California
570-246746-10	SS-3B	Solid	09/16/25 11:25	09/16/25 13:00	California
570-246746-11	SS-3C	Solid	09/16/25 11:29	09/16/25 13:00	California
570-246746-12	SS-3D	Solid	09/16/25 11:33	09/16/25 13:00	California
570-246746-13	SS-4A	Solid	09/16/25 11:43	09/16/25 13:00	California
570-246746-14	SS-4B	Solid	09/16/25 11:48	09/16/25 13:00	California
570-246746-15	SS-4C	Solid	09/16/25 11:52	09/16/25 13:00	California
570-246746-16	SS-4D	Solid	09/16/25 11:58	09/16/25 13:00	California
570-246746-17	CS-1	Solid	09/16/25 00:00	09/16/25 13:00	California
570-246746-18	CS-2	Solid	09/16/25 00:00	09/16/25 13:00	California
570-246746-19	CS-3	Solid	09/16/25 00:00	09/16/25 13:00	California
570-246746-20	CS-4	Solid	09/16/25 00:00	09/16/25 13:00	California

Loc: 570
246746

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494

Chain of Custody Record

eurofins | Environ

Client Information	Sampler: Lauren Alamillo, Will Wyatt	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 570-140976-28472.1
Client Contact: Alan Churchill	Phone: (805) 212-2220	E-Mail: Rossina.Tomova@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Padre Associates	PWSID:			Job #: 246746
Address: 350 University Ave Suite 250	Due Date Requested: Standard (10 day)			
City: Sacramento	TAT Requested (days): Standard (10 day)			
State, Zip: CA, 95827	Compliance Project: Δ Yes Δ No			
Phone: 916-952-5421	PO #: 2501-0092			
Email: achurchill@padreinc.com	WO #:			
Project Name: Tustin USD-Proposed District Offices	Eurofins Project #: 57026774			
Site: Legacy Road, Tustin, CA	SSOW#:			

Analysis Requested

Preservation Codes:

570-246746 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8081B - Routine Organochlorine Pesticides List	6020 - CAM-17 / Title 22 ICP-MS Metals	7471A - Mercury	8015B_DRO	8015B_GRO - Gasoline Range Organics (C4-C12)	8260B - Routine Volatiles List (Full Spike)	PCBs - 8082	Total Number of containers	Special Instructions/Note:
1 SS-1A	9/16/25	1030	G	Soil											-Composite SS-1A
2 SS-1B (CS-1 4:1 composite)		1036					X	X	X	X	X	X	X		through SS-1D into
3 SS-1C		1041													one sample (CS-1)
4 SS-1D		1046													-Composite SS-2A
5 SS-2A		1055													through SS-2D into
6 SS-2B (CS-2 4:1 composite)		1059					X	X	X	X	X	X	X		one sample (CS-2)
7 SS-2C		1104													-Composite SS-3A
8 SS-2D		1109													through SS-3D into
9 SS-3A		1121													one sample (CS-3)
10 SS-3B (CS-3 4:1 composite)		1125					X	X	X	X	X	X	X		
11 SS-3C		1129													
12 SS-3D		1133													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Will Wyatt	9/16/25 1300			9/16/25 13:00	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.2 / 5.6 SCS

Ver: 05/06/2024

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Lauren Alamillo, Will Wyatt	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 570-140976-28472.1
Client Contact: Alan Churchill	Phone: (805) 212-2220	E-Mail: Rossina.Tomova@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Padre Associates	PWSID:	Analysis Requested		Job #: 246746
Address: 350 University Ave Suite 250	Due Date Requested: Standard (10 day)			Preservation Codes:
City: Sacramento	TAT Requested (days): Standard (10 day)			
State, Zip: CA, 95827	Compliance Project: Δ Yes Δ No			
Phone: 916-952-5421	PO #: 2501-0092			
Email: achurchill@padreinc.com	WO #:			
Project Name: Tustin USD-Proposed District Offices	Eurofins Project #: 57026774			
Site: Legacy Road, Tustin, CA	SSOW#:			Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perfo...MS/MSD (Yes or No)	8081B - Routine Organochlorine Pesticides List	6020 - CAM-17 / Title 22 ICP-MS Metals	7471A - Mercury	8015B_DRO	8015B_GRO - Gasoline Range Organics (C4-C12)	8260B - Routine Volatiles List (Full Spike)	PCBs - 8082	Total Number of containers	Special Instructions/Note:
13	SS-4A	9/16/25	1143	G	Soil											Composite SS-4A
14	SS-4B		1148					X	X	X	X	X	X	X		through SS-4D into
15	SS-4C		1152													one sample (CS-4)
16	SS-4D		1158													
	CS-4 4:1 composite															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Will Wyatt	9-16-25 1300			9/16/25 1300	TEC
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Padre Associates, Inc.

Job Number: 570-246746-1
SDG Number: Legacy Road, Tustin CA

Login Number: 246746
List Number: 1
Creator: Le, Sunny

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Fundamentals of Noise

NOISE

Noise is most often defined as unwanted sound; whether it is loud, unpleasant, unexpected, or otherwise undesirable. Although sound can be easily measured, the perception of noise and the physical response to sound complicate the analysis of its impact on people. People judge the relative magnitude of sound sensation in subjective terms such as "noisiness" or "loudness."

Noise Descriptors

The following are brief definitions of terminology used in this chapter:

- **Sound.** A disturbance created by a vibrating object, which, when transmitted by pressure waves through a medium such as air, is capable of being detected by a receiving mechanism, such as the human ear or a microphone.

- **Noise.** Sound that is loud, unpleasant, unexpected, or otherwise undesirable.

- **Decibel (dB).** A unitless measure of sound, expressed on a logarithmic scale and with respect to a defined reference sound pressure. The standard reference pressure is 20 micropascals (20 μPa).

- **Vibration Decibel (VdB).** A unitless measure of vibration, expressed on a logarithmic scale and with respect to a defined reference vibration velocity. In the U.S., the standard reference velocity is 1 micro-inch per second ($1x10^{-6}$ in/sec).

- **A-Weighted Decibel (dBA).** An overall frequency-weighted sound level in decibels that approximates the frequency response of the human ear.

- **Equivalent Continuous Noise Level (L_{eq}); also called the Energy-Equivalent Noise Level.** The value of an equivalent, steady sound level which, in a stated time period (often over an hour) and at a stated location, has the same A-weighted sound energy as the time-varying sound. Thus, the L_{eq} metric is a single numerical value that represents the equivalent amount of variable sound energy received by a receptor over the specified duration.

- **Statistical Sound Level (L_n).** The sound level that is exceeded "n" percent of time during a given sample period. For example, the L_{50} level is the statistical indicator of the time-varying noise signal that is exceeded 50 percent of the time (during each sampling period); that is, half of the sampling time, the changing noise levels are above this value and half of the time they are below it. This is called the "median sound level." The L_{10} level, likewise, is the value that is exceeded 10 percent of the time (i.e., near the maximum) and this is often known as the "intrusive sound level." The L_{90} is the sound level exceeded 90 percent of the time and is often considered the "effective background level" or "residual noise level."

- **Maximum Sound Level (L_{max})**. The highest RMS sound level measured during the measurement period.
- **Root Mean Square Sound Level (RMS).** The square root of the average of the square of the sound pressure over the measurement period.
- **Day-Night Sound Level (L_{dn} or DNL).** The energy-average of the A-weighted sound levels occurring during a 24-hour period, with 10 dB added to the sound levels occurring during the period from 10:00 PM to 7:00 AM.
- **Community Noise Equivalent Level (CNEL).** The energy average of the A-weighted sound levels occurring during a 24-hour period, with 5 dB added from 7:00 PM to 10:00 PM and 10 dB from 10:00 PM to 7:00 AM. NOTE: For general community/environmental noise, CNEL and L_{dn} values rarely differ by more than 1 dB (with the CNEL being only slightly more restrictive – that is, higher than the L_{dn} value). As a matter of practice, L_{dn} and CNEL values are interchangeable and are treated as equivalent in this assessment.
- **Peak Particle Velocity (PPV).** The peak rate of speed at which soil particles move (e.g., inches per second) due to ground vibration.
- **Sensitive Receptor.** Noise- and vibration-sensitive receptors include land uses where quiet environments are necessary for enjoyment and public health and safety. Residences, schools, motels and hotels, libraries, religious institutions, hospitals, and nursing homes are examples.

Characteristics of Sound

When an object vibrates, it radiates part of its energy in the form of a pressure wave. Sound is that pressure wave transmitted through the air. Technically, airborne sound is a rapid fluctuation or oscillation of air pressure above and below atmospheric pressure that creates sound waves.

Sound can be described in terms of amplitude (loudness), frequency (pitch), or duration (time). Loudness or amplitude is measured in dB, frequency or pitch is measured in Hertz [Hz] or cycles per second, and duration or time variations is measured in seconds or minutes.

Amplitude

Unlike linear units such as inches or pounds, decibels are measured on a logarithmic scale. Because of the physical characteristics of noise transmission and perception, the relative loudness of sound does not closely match the actual amounts of sound energy. Table 1 presents the subjective effect of changes in sound pressure levels. Ambient sounds generally range from 30 dBA (very quiet) to 100 dBA (very loud). Changes of 1 to 3 dB are detectable under quiet, controlled conditions, and changes of less than 1 dB are usually not discernible (even under ideal conditions). A 3 dB change in noise levels is considered the minimum change that is detectable with human hearing in outside environments. A change of 5 dB is readily discernible to most people in an exterior environment, and a 10 dB change is perceived as a doubling (or halving) of the sound.

Table 1 Noise Perceptibility

Change in dB	Noise Level
± 3 dB	Barely perceptible increase
± 5 dB	Readily perceptible increase
± 10 dB	Twice or half as loud
± 20 dB	Four times or one-quarter as loud

Source: California Department of Transportation (Caltrans). 2013, September. Technical Noise Supplement ("TeNS").

Frequency

The human ear is not equally sensitive to all frequencies. Sound waves below 16 Hz are not heard at all, but are "felt" more as a vibration. Similarly, though people with extremely sensitive hearing can hear sounds as high as 20,000 Hz, most people cannot hear above 15,000 Hz. In all cases, hearing acuity falls off rapidly above about 10,000 Hz and below about 200 Hz.

When describing sound and its effect on a human population, A-weighted (dBA) sound levels are typically used to approximate the response of the human ear. The A-weighted noise level has been found to correlate well with people's judgments of the "noisiness" of different sounds and has been used for many years as a measure of community and industrial noise. Although the A-weighted scale and the energy-equivalent metric are commonly used to quantify the range of human response to individual events or general community sound levels, the degree of annoyance or other response also depends on several other perceptibility factors, including:

- Ambient (background) sound level
- General nature of the existing conditions (e.g., quiet rural or busy urban)
- Difference between the magnitude of the sound event level and the ambient condition
- Duration of the sound event
- Number of event occurrences and their repetitiveness
- Time of day that the event occurs

Duration

Time variation in noise exposure is typically expressed in terms of a steady-state energy level equal to the energy content of the time varying period (called L_{eq}), or alternately, as a statistical description of the sound level that is exceeded over some fraction of a given observation period. For example, the L_{50} noise level represents the noise level that is exceeded 50 percent of the time; half the time the noise level exceeds this level and half the time the noise level is less than this level. This level is also representative of the level that is exceeded 30 minutes in an hour. Similarly, the L_2, L_8 and L_{25} values represent the noise levels that are exceeded 2, 8, and 25 percent of the time or 1, 5, and 15 minutes per hour, respectively. These "n" values are typically used to demonstrate compliance for stationary noise sources with many cities' noise ordinances. Other values typically noted during a noise survey are the L_{min} and L_{max}. These values represent the minimum and maximum root-mean-square noise levels obtained over the measurement period, respectively.

Because community receptors are more sensitive to unwanted noise intrusion during the evening and at night, state law and many local jurisdictions use an adjusted 24-hour noise descriptor called the Community Noise Equivalent Level (CNEL) or Day-Night Noise Level (L_{dn}). The CNEL descriptor requires that an artificial increment (or "penalty") of 5 dBA be added to the actual noise level for the hours from 7:00 PM to 10:00

PM and 10 dBA for the hours from 10:00 PM to 7:00 AM. The L_{dn} descriptor uses the same methodology except that there is no artificial increment added to the hours between 7:00 PM and 10:00 PM. Both descriptors give roughly the same 24-hour level, with the CNEL being only slightly more restrictive (i.e., higher). The CNEL or L_{dn} metrics are commonly applied to the assessment of roadway and airport-related noise sources.

Sound Propagation

Sound dissipates exponentially with distance from the noise source. This phenomenon is known as "spreading loss." For a single-point source, sound levels decrease by approximately 6 dB for each doubling of distance from the source (conservatively neglecting ground attenuation effects, air absorption factors, and barrier shielding). For example, if a backhoe at 50 feet generates 84 dBA, at 100 feet the noise level would be 79 dBA, and at 200 feet it would be 73 dBA. This drop-off rate is appropriate for noise generated by on-site operations from stationary equipment or activity at a project site. If noise is produced by a line source, such as highway traffic, the sound decreases by 3 dB for each doubling of distance over a reflective ("hard site") surface such as concrete or asphalt. Line source noise in a relatively flat environment with ground-level absorptive vegetation decreases by an additional 1.5 dB for each doubling of distance.

Psychological and Physiological Effects of Noise

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects the entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions, thereby affecting blood pressure and functions of the heart and the nervous system. Extended periods of noise exposure above 90 dBA results in permanent cell damage, which is the main driver for employee hearing protection regulations in the workplace. For community environments, the ambient or background noise problem is widespread, through generally worse in urban areas than in outlying, less-developed areas. Elevated ambient noise levels can result in noise interference (e.g., speech interruption/masking, sleep disturbance, disturbance of concentration) and cause annoyance. Since most people do not routinely work with decibels or A-weighted sound levels, it is often difficult to appreciate what a given sound pressure level number means. To help relate noise level values to common experience, Table 2 shows typical noise levels from familiar sources.

Table 2 Typical Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
Onset of physical discomfort	120+	
	110	Rock Band (near amplification system)
Jet Flyover at 1,000 feet		
	100	
Gas Lawn Mower at three feet		
	90	
Diesel Truck at 50 feet, at 50 mph		Food Blender at 3 feet
	80	Garbage Disposal at 3 feet
Noisy Urban Area, Daytime		
	70	Vacuum Cleaner at 10 feet
Commercial Area		Normal speech at 3 feet
Heavy Traffic at 300 feet	60	
		Large Business Office
Quiet Urban Daytime	50	Dishwasher Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (background)
Quiet Suburban Nighttime		
	30	Library
Quiet Rural Nighttime		Bedroom at Night, Concert Hall (background)
	20	
		Broadcast/Recording Studio
	10	
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing

Source: California Department of Transportation (Caltrans). 2013, September. Technical Noise Supplement ("TeNS").

Vibration Fundamentals

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration is normally associated with activities stemming from operations of railroads or vibration-intensive stationary sources, but can also be associated with construction equipment such as jackhammers, pile drivers, and hydraulic hammers. As with noise, vibration can be described by both its amplitude and frequency. Vibration displacement is the distance that a point on a surface moves away from its original static position; velocity is the instantaneous speed that a point on a surface moves; and acceleration is the rate of change of the speed. Each of these descriptors can be used to correlate vibration to human response, building damage, and acceptable equipment vibration levels. During construction, the operation of construction equipment can cause groundborne vibration. During the operational phase of a project, receptors may be subject to levels of vibration that can cause annoyance due to noise generated from vibration of a structure or items within a structure.

Vibration amplitudes are usually described in terms of either the peak particle velocity (PPV) or the root mean square (RMS) velocity. PPV is the maximum instantaneous peak of the vibration signal and RMS is the

square root of the average of the squared amplitude of the signal. PPV is more appropriate for evaluating potential building damage and RMS is typically more suitable for evaluating human response.

As with airborne sound, annoyance with vibrational energy is a subjective measure, depending on the level of activity and the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying. Persons accustomed to elevated ambient vibration levels, such as in an urban environment, may tolerate higher vibration levels. Table 3 displays the human response and the effects on buildings resulting from continuous vibration (in terms of various levels of PPV).

Table 3 Human Reaction to Typical Vibration Levels

Vibration Level, PPV (in/sec)	Human Reaction	Effect on Buildings
0.006–0.019	Threshold of perception, possibility of intrusion	Vibrations unlikely to cause damage of any type
0.08	Vibrations readily perceptible	Recommended upper level of vibration to which ruins and ancient monuments should be subjected
0.10	Level at which continuous vibration begins to annoy people	Virtually no risk of "architectural" (i.e. not structural) damage to normal buildings
0.20	Vibrations annoying to people in buildings	Threshold at which there is a risk to "architectural" damage to normal dwelling – houses with plastered walls and ceilings
0.4–0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" damage and possibly minor structural damage

Source: California Department of Transportation (Caltrans). 2020, April. *Transportation and Construction Vibration Guidance Manual.* Prepared by ICF International.

Measurement Report

Report Summary

Meter's File Name	LxT_Data.140.s	Computer's File Name	LxT_0005424-20250819 151047-LxT_Data.140.ldbin
Meter	LxT1 0005424	Firmware	2.404
User	AC	Location	ST-1
Job Description	TSD-21		
Note			

Start Time	2025-08-19 15:10:47	Duration	0:15:00.0		
End Time	2025-08-19 15:25:47	Run Time	0:14:59.4	Pause Time	0:00:00.6
Pre-Calibration	2025-08-19 15:10:37	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	63.3 dB		
LAE	92.8 dB	SEA	--- dB
EA	213.7 µPa²h		
EA8	6.8 mPa²h		
EA40	34.2 mPa²h		
LAS_{peak}	103.3 dB	2025-08-19 15:20:26	
LAS_{max}	74.2 dB	2025-08-19 15:20:26	
LAS_{min}	44.9 dB	2025-08-19 15:18:34	
LA_{eq}	63.3 dB		
LC_{eq}	69.2 dB	LC_{eq} - LA_{eq}	5.9 dB
LAI_{eq}	64.9 dB	LAI_{eq} - LA_{eq}	1.6 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LASpk > 135.0 dB	0	0:00:00.0
LASpk > 137.0 dB	0	0:00:00.0
LASpk > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
--- dB	--- dB	0.0 dB

LDEN	LDay	LEve	LNight
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	63.3 dB		--- dB		--- dB	
$LS_{(max)}$	74.2 dB	2025-08-19 15:20:26	--- dB	None	--- dB	None
$LS_{(min)}$	44.9 dB	2025-08-19 15:18:34	--- dB	None	--- dB	None
$L_{Peak(max)}$	103.3 dB	2025-08-19 15:20:26	--- dB	None	--- dB	None

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 2.0	70.3 dB
LAS 8.0	67.1 dB
LAS 25.0	64.7 dB
LAS 50.0	61.3 dB
LAS 90.0	50.5 dB
LAS 99.0	46.1 dB



Project Name: _____ Date: 8/19/25

Project Number: TSD - 21 Monitoring Personnel: A C

Monitoring Site #: ST #1 Time Start: 3:10 End: 3:25

Site Location/Address: South of 1486 Valencia Avenue

Primary Noise Source: Roadway Traffic ("After school traffic"); Student talking as they walk by

Measurement Results	
Percentiles	dBA
Leq	63.3
Lmax	74.2
Lmin	44.9
L2	70.3
L8	67.1
L25	64.7
L50	61.3
Other	
SEL/CNEL	

Observed Noise Sources/Events		
Time	Noise Source Event	dBA
3:58	Student walking by, talking	67
6:10	Semi passing by	72.8
10:45	3 Students scootering by	65

Data File: 140 ☒ Photos: yes

Comments (sound walls, height, etc..) Approx 3 foot Wall before the residental courtyard but no walls at edge residences; 391 m from glass entrance to Legacy Magnet Academy; 345 m from northeastern pillar to burned down YCMA hanger

Max Wind Velocity (knots/hr)	Average Wind Velocity (knots/hr)	Temperature (F)	Relative Humidity (%)
	10 mph	85	47%

Traffic counts in both directions:

Roadway	# Lanes	Posted Speed	Autos	MD	HD

Calibration

Note, for ST measurements, calibration is only necessary before and after each monitoring period per day per meter - not before and after every ST measurement in that day. So only fill out calibration info on one ST sheet unless using two different meters for ST's.

LD CAL 200 ☐ SN-14280 ☒ SN-14279 1 kHz Tone Reference Level: ☒ 94 dB ☐ 114 dB

Calibration Offset Prior: 0.22 dB Offset After: 1.14

Caltone File Before: File #_____ Caltone File Before: File #_____

Additional Notes:

Measurement Report

Report Summary

Meter's File Name	LxT_Data.141.s	Computer's File Name	LxT_0005424-20250819 153824-LxT_Data.141.ldbin
Meter	LxT1 0005424	Firmware	2.404
User	AC	Location	ST-2
Job Description	TSD-21		
Note			

Start Time	2025-08-19 15:38:24	Duration	0:15:00.0		
End Time	2025-08-19 15:53:24	Run Time	0:14:59.9	Pause Time	0:00:00.1
Pre-Calibration	2025-08-19 15:37:24	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	56.9 dB		
LAE	86.4 dB	SEA	--- dB
EA	49.0 µPa²h		
EA8	1.6 mPa²h		
EA40	7.8 mPa²h		
LAS_{peak}	99.3 dB	2025-08-19 15:50:24	
LAS_{max}	71.6 dB	2025-08-19 15:41:25	
LAS_{min}	43.6 dB	2025-08-19 15:52:28	
LA_{eq}	56.9 dB		
LC_{eq}	69.8 dB	LC_{eq} - LA_{eq}	12.9 dB
LAI_{eq}	59.9 dB	LAI_{eq} - LA_{eq}	3.0 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LASpk > 135.0 dB	0	0:00:00.0
LASpk > 137.0 dB	0	0:00:00.0
LASpk > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
--- dB	--- dB	0.0 dB

LDEN	LDay	LEve	LNight
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	56.8 dB		--- dB		--- dB	
$LS_{(max)}$	71.6 dB	2025-08-19 15:41:25	--- dB	None	--- dB	None
$LS_{(min)}$	43.6 dB	2025-08-19 15:52:28	--- dB	None	--- dB	None
$L_{Peak(max)}$	99.3 dB	2025-08-19 15:50:24	--- dB	None	--- dB	None

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 2.0	66.5 dB
LAS 8.0	61.8 dB
LAS 25.0	55.0 dB
LAS 50.0	50.0 dB
LAS 90.0	46.3 dB
LAS 99.0	44.5 dB



Project Name: _____ Date: 8/19/25

Project Number: TSD-21 Monitoring Personnel: AC

Monitoring Site #: ST#2 Time Start: 3:38 End: 3:53

Site Location/Address: Just before the Legacy Magnet Academy driveway

Primary Noise Source: Student Pickup Vehicle traffic, after initial wave inconsistent vehicles

Measurement Results	
Percentiles	dBA
Leq	56.8
Lmax	71.6
Lmin	43.6
L2	66.5
L8	61.8
L25	55.0
L50	50.0
Other	
SEL/CNEL	

Observed Noise Sources/Events		
Time	Noise Source Event	dBA

Data File: 141 Photos: yes

Comments (sound walls, height, etc..) No walls; Legacy Magnet Academy marquee 58m; 144m from glass each entrance of campus; 28m from light pole across the street; 44.7 m from from north eastern beam of USMC hanger

Max Wind Velocity (knots/hr)	Average Wind Velocity (knots/hr)	Temperature (F)	Relative Humidity (%)
	10 mph	85	47%

Traffic counts in both directions:

Roadway	# Lanes	Posted Speed	Autos	MD	HD

Calibration

Note, for ST measurements, calibration is only necessary before and after each monitoring period per day per meter - not before and after every ST measurement in that day. So only fill out calibration info on one ST sheet unless using two different meters for ST's.

LD CAL 200 ☐ SN-14280 ☑ SN-14279 1 kHz Tone Reference Level: ☐ 94 dB ☐ 114 dB

Calibration Offset Prior: -.76 Offset After: -.13

Caltone File Before: File #_____ Caltone File Before: File #_____

Additional Notes:

Long-Term 24 Hour Continuous Noise Monitoring
Calculation Input Sheet

Project: TSD-21

Date: August 19-20, 2025

Site: LT-1

Calculated CNEL, dBA
62.3

Averages

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	61.3	79.0	56.2	47.2
Evening (7 p.m. - 9 p.m.)	57.8	76.5	51.2	44.2
Nighttime (9 p.m. - 7 a.m.)	53.3	70.3	43.0	39.7

Hour	Leq	Lmax	L50	L90
15:00	60.1	75.0	56.1	49.1
16:00	61.6	83.2	57.0	49.0
17:00	61.5	79.7	57.1	48.7
18:00	61.2	81.2	56.6	46.2
19:00	59.2	77.2	54.4	46.3
20:00	57.7	76.4	51.7	44.4
21:00	55.9	75.8	47.5	42.0
22:00	52.9	71.0	44.5	40.8
23:00	55.3	69.8	50.7	39.8
0:00	47.0	66.5	40.4	39.0
1:00	46.6	70.5	39.2	38.4
2:00	45.0	68.1	39.3	38.0
3:00	45.0	67.0	40.4	39.6
4:00	49.9	70.2	39.6	39.0
5:00	55.5	72.0	44.1	40.0
6:00	58.9	77.8	49.1	42.7
7:00	63.3	85.1	57.1	48.2
8:00	63.2	83.7	58.5	49.3
9:00	61.7	75.8	56.2	46.2
10:00	58.6	71.8	53.3	43.6
11:00	59.8	74.7	54.3	44.7
12:00	61.0	74.9	56.6	48.1
13:00	61.5	85.2	56.2	47.7
14:00	59.7	77.6	54.8	45.9

Percentage of Energy

Daytime	81%
Evening	9%
Nighttime	10%



Project: TSD-21
User: AC
Location: LT-1

No.	Start Date	Start Time	End Time	Duration	L_{eq}	L_{max}	L_{min}	L_1	L_2	L_5	L_8	L_{10}	L_{25}	L_{50}	L_{90}	L_{95}	L_{99}
1	8/19/2025	3:00 PM	4:00 PM	1:00	60.1	75.0	43.7	68.6	67.6	65.8	64.8	64.2	61.0	56.1	49.1	47.4	45.6
2	8/19/2025	4:00 PM	5:00 PM	1:00	61.6	83.2	43.0	69.8	68.3	66.7	65.5	64.9	61.5	57.0	49.0	47.5	45.3
3	8/19/2025	5:00 PM	6:00 PM	1:00	61.5	79.7	43.3	69.8	68.4	66.8	66.1	65.6	62.3	57.1	48.7	46.9	44.8
4	8/19/2025	6:00 PM	7:00 PM	1:00	61.2	81.2	41.3	69.8	68.5	66.6	65.5	64.9	61.4	56.6	46.2	44.6	42.7
5	8/19/2025	7:00 PM	8:00 PM	1:00	59.2	77.2	42.4	67.9	67.0	65.1	64.2	63.6	59.5	54.4	46.3	45.3	43.5
6	8/19/2025	8:00 PM	9:00 PM	1:00	57.7	76.4	41.5	67.4	66.3	64.3	63.1	62.2	57.1	51.7	44.4	43.8	42.9
7	8/19/2025	9:00 PM	10:00 PM	1:00	55.9	75.8	39.5	66.6	65.1	62.9	61.2	60.1	54.2	47.5	42.0	41.4	40.6
8	8/19/2025	10:00 PM	11:00 PM	1:00	52.9	71.0	38.7	64.9	63.2	59.7	57.2	55.8	49.5	44.5	40.8	39.7	38.9
9	8/19/2025	11:00 PM	12:00 AM	1:00	55.3	69.8	39.0	64.5	62.3	59.8	59.3	59.2	58.8	50.7	39.8	39.5	39.1
10	8/20/2025	12:00 AM	1:00 AM	1:00	47.0	66.5	38.4	60.7	56.6	50.3	47.1	45.5	42.7	40.4	39.0	38.8	38.6
11	8/20/2025	1:00 AM	2:00 AM	1:00	46.6	70.5	38.1	58.9	52.3	44.1	42.9	42.0	40.1	39.2	38.4	38.3	38.2
12	8/20/2025	2:00 AM	3:00 AM	1:00	45.0	68.1	37.8	58.0	51.8	44.3	42.8	42.4	40.5	39.3	38.0	37.9	37.8
13	8/20/2025	3:00 AM	4:00 AM	1:00	45.0	67.0	39.1	56.6	51.6	45.0	43.4	42.8	41.3	40.4	39.6	39.3	39.1
14	8/20/2025	4:00 AM	5:00 AM	1:00	49.9	70.2	38.7	64.4	60.5	54.1	48.2	45.6	40.9	39.6	39.0	38.9	38.8
15	8/20/2025	5:00 AM	6:00 AM	1:00	55.5	72.0	39.1	67.4	66.1	63.0	60.7	59.5	51.5	44.1	40.0	39.6	39.2
16	8/20/2025	6:00 AM	7:00 AM	1:00	58.9	77.8	40.4	69.5	68.2	66.0	64.3	63.3	57.3	49.1	42.7	41.8	40.9
17	8/20/2025	7:00 AM	8:00 AM	1:00	63.3	85.1	42.9	71.8	70.9	69.4	68.2	67.5	63.2	57.1	48.2	46.5	44.0
18	8/20/2025	8:00 AM	9:00 AM	1:00	63.2	83.7	42.4	71.6	70.1	68.6	67.6	67.0	63.8	58.5	49.3	47.0	44.3
19	8/20/2025	9:00 AM	10:00 AM	1:00	61.7	75.8	41.5	71.2	69.7	68.1	66.9	66.2	62.2	56.2	46.2	44.5	42.6
20	8/20/2025	10:00 AM	11:00 AM	1:00	58.6	71.8	40.6	67.7	66.9	65.2	64.1	63.4	58.9	53.3	43.6	42.5	41.3
21	8/20/2025	11:00 AM	12:00 PM	1:00	59.8	74.7	40.6	69.8	68.0	66.1	64.9	64.1	59.7	54.3	44.7	43.0	41.3
22	8/20/2025	12:00 PM	1:00 PM	1:00	61.0	74.9	42.1	70.9	68.8	66.7	65.5	64.9	61.6	56.6	48.1	46.3	44.5
23	8/20/2025	1:00 PM	2:00 PM	1:00	61.5	85.2	42.1	70.4	68.4	66.8	65.7	65.1	61.5	56.2	47.7	45.9	43.5
24	8/20/2025	2:00 PM	3:00 PM	1:00	59.7	77.6	41.5	69.2	67.1	65.4	64.3	63.7	60.0	54.8	45.9	44.4	42.7

TSD-21.0 - Construction Noise Modeling Attenuation Calculations

		Levels in dBA Leq	
Phase	**RCNM Reference Noise Level**	**Multi-Family Receptor to East**	**School Receptor to South**
Distance in feet	*50*	*350*	*275*
Demolition	85	68	70
Site Prep	81	64	66
Grading	83	66	68
Distance in feet	*50*	*175*	*285*
Building Construction	79	68	64
Architectural Coating	74	63	59
Distance in feet	*50*	*200*	*120*
Paving	79	67	71

Attenuation calculated through Inverse Square Law: Lp(R2) = Lp(R1) - 20Log(R2/R1)

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 08/27/2025
Case Description: TSD-21.0 Demolition

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 ft	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	50.0	0.0
Dozer	No	40		81.7	50.0	0.0
Excavator	No	40		80.7	50.0	0.0

Results

Equipment		Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Concrete Saw		89.6	82.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		81.7	77.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	89.6	84.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 08/27/2025
Case Description: TSD-21.0 Site Preparation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 ft	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	50.0	0.0
Dozer	No	40		81.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	81.7	80.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 08/27/2025
Case Description: TSD-21.0 Grading

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 ft	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	50.0	0.0
Grader	No	40	85.0		50.0	0.0
Excavator	No	40		80.7	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	85.0	81.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	85.0	83.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 08/27/2025
Case Description: TSD-21.0 Building Construction

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 ft	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Equipment		Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Generator		80.6	77.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift		74.7	67.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	80.6	79.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 08/27/2025
Case Description: TSD-21.0 Architectural Coating

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 ft	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Compressor (air)	77.7	73.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77.7	73.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 08/27/2025
Case Description: TSD-21.0 Paving

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 ft	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	50.0	0.0
Roller	No	20		80.0	50.0	0.0
Paver	No	50		77.2	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Paver	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	80.0	73.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.0	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TSD-21.0 - Vibration Damage Attenuation Calculations

Distance in feet	**Vibration Reference Level at *25 feet***	**Multi-Family Receptor to East** *150*	**School Receptor to South** *90*
Vibratory Roller	0.21	0.014	0.031
Clam shovel	0.202	0.014	0.030
Hoe Ram	0.089	0.006	0.013
Large Bulldozer	0.089	0.006	0.013
Caisson Drilling	0.089	0.006	0.013
Loaded Trucks	0.076	0.005	0.011
Jackhammer	0.035	0.002	0.005
Small Bulldozer	0.003	0.000	0.000

Traffic Noise Calculator: FHWA 77-108 — **Tustin USD Project (TSD-21.0) Existing 2025 Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour				Segment From - To														
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	65.6	68.3	69.0	43	93	200	Valencia Avenue	Legacy Road	Columbus Square	10,706	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
2	66.1	68.9	69.5	47	101	217	Valencia Avenue	Legacy Road	Tustin Ranch Road	12,057	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
3	62.8	65.6	66.3	28	61	131	Kensington Park Drive	Valencia Avenue	Georgia Street	7,430	40	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108	Tustin USD Project (TSD-21.0) 2028 No Project Traffic Noise Traffic Conditions																							
	Output						Inputs																Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour																				
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway	Segment From	Segment To	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	65.7	68.5	69.2	44	95	204	Valencia Avenue	Legacy Road	Columbus Square	11,030	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
2	66.2	69.0	69.7	48	103	221	Valencia Avenue	Legacy Road	Tustin Ranch Road	12,422	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
3	62.9	65.7	66.4	29	62	134	Kensington Park Drive	Valencia Avenue	Georgia Street	7,655	40	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108 — **Tustin USD Project (TSD-21.0) 2025 Plus Project Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour			Segment															
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway	From	To	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	65.8	68.6	69.3	45	97	208	Valencia Avenue	Legacy Road	Columbus Square	11,352	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
2	66.3	69.1	69.8	48	104	224	Valencia Avenue	Legacy Road	Tustin Ranch Road	12,703	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
3	63.2	66.0	66.6	30	64	139	Kensington Park Drive	Valencia Avenue	Georgia Street	8,076	40	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108 — **Tustin USD Project (TSD-21.0) 2028 with Project Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour																		
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway	Segment From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	65.9	68.7	69.4	46	98	212	Valencia Avenue	Legacy Road	Columbus Square	11,676	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
2	66.4	69.2	69.9	49	106	229	Valencia Avenue	Legacy Road	Tustin Ranch Road	13,068	45	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
3	63.3	66.1	66.8	30	65	141	Kensington Park Drive	Valencia Avenue	Georgia Street	8,301	40	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44

4. Any existing plans for fire service facilities or expanded capacity (e.g. personnel, equipment, stations, etc.) that would serve the project site?

NO PLANS IN PLACE AT THIS TIME TO EXPAND PERSONNEL OR EQUIPMENT TO SUBJECT PARCEL, AS IT CURRENTLY IS VERY CLOSE TO FIRE STATION 37.

5. What impact (if any) will the proposed project have on Station #37 or Orange County Fire Authority's ability to provide fire protection and emergency service to the area?

FIRE STATION 37 IS STRATEGICALLY PLACED TO BE ABLE TO HANDLE ADDITIONAL CALL VOLUME THAT MAY OCCUR AS A RESULT OF CURRENT AND FUTURE DEVELOPMENT IN SOUTH TUSTIN.

6. What are the primary sources of funding for Station #37 and the Orange County Fire Authority's operations and improvements? Do you collect development impact fees?

THE CITY OF TUSTIN IS A CASH CONTRACT CITY WHICH MEANS THAT THE CITY RECEIVES AN INVOICE ANNUALLY FOR FIRE SERVICE. ALL DEVELOPMENT AND IMPACT FEES ARE DETERMINED BY OUR COMMUNITY RISK REDUCTION DEPARTMENT ON A CASE BY CASE BASIS.

7. Please provide any additional comments you wish to make regarding the proposed project.

PLEASE DONT HESITATE TO CALL FOR ADDITIONAL CLARIFICATION, ON ANY OF THE ABOVE ANSWERS.

Responses Prepared By:

BRETT COVINDELL	ADMIN CAPTAIN, DIVISION 4
Name	**Title**
ORANGE COUNTY FIRE AUTHORITY	9/23/2025
Agency	**Date**

Tustin Unified School District Education Center Project
Fire Services Questionnaire – Orange County Fire Authority

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1. Please confirm that the nearest fire station closest to project site that would serve the proposed project is Orange County Fire Authority - Station #37. What other stations will serve the project site in case of fire?

Are there any service agreements with other local or regional fire agencies for additional support? THERE ARE MUTUAL AID AGREEMENTS IN PLACE THROUGHOUT THE COUNTY FIRE AGENCIES FOR ALL EMERGENCIES.

Please fill in the information requested below regarding the equipment (e.g., engines, fire trucks, EMT vehicles) and daily staffing for each of the stations noted, as well as any other station(s) not noted but pertinent.

Station	Location	Equipment	Daily Staffing
Orange County Fire Authority - Station #37	15011 Kensington Park Dr, Tustin, CA 92782	TYPE I FIRE ENGINE	4 PERSONNEL
Other Station: (if relevant) STATION 6	3180 BARRANCA PKWY IRVINE 92606	TYPE I FIRE ENGINE HEAVY RESCUE	4 PERSONNEL 4 PERSONNEL
STATION 21	1241 IRVINE BLVD TUST.N 92780	TYPE I FIRE ENGINE	4 PERSONNEL
STATION 79	1320 E. WARNER SANTA ANA 92705	TYPE I FIRE ENGINE HAZMAT UNIT	

2. What is Orange County Fire Authority's response time goal/policy standard (in minutes) for responding to emergency and non-emergency calls in the service area? What is the current average response time?

OCFA POLICY IS TO RESPOND TO EMERGENCY CALLS FOR ASSISTANCE WITHIN 60 SECONDS, UNLESS TURNOUT GEAR MUST BE WORN FOR THE CALL, OR IF PERSONNEL HAVE RETIRED FOR THE NIGHT; IN WHICH CASE RESPONSE IS WITHIN 90 SECONDS.

3. Are there any existing deficiencies (e.g. personnel, equipment, etc.) in the fire protection service currently provided to the project site?

NO DEFICIENCIES EXIST (PERSONNEL, EQUIPMENT) BUT INFRASTRUCTURE (HYDRANTS AND FIRE PROTECTION SYSTEMS) MAY NOT YET BE OPERATIONAL ON THE SUBJECT PARCEL.

Police Services Information
TUSD Education Center Project

1.) Please review and update the following Police Services information, if necessary. Please provide the approximate estimated response time to the project site. Would any additional police stations serve the project?

Tustin Police Department	300 Centennial Way	3.1 roadway miles	9 minutes
Tustin Police Department "Annex"	15445 Lansdowne Rd.	1.3 roadway miles	4 minutes

It should be noted that Tustin PD patrol officers respond to calls for service from the field. Officers are at the station when turning in reports, using the restroom, or booking suspects who have been arrested. Officers are encouraged to remain in the field in between calls for service to conduct proactive police work. At times, they are responding to calls for service from the opposite side of the city. The number of officers/cars/motorcycles on duty is dependent on the day of week/time of day.

2.) What staffing levels by type (e.g., captains, lieutenants, officers, and unsworn personnel) are currently maintained for the TPD station(s) included in your response to question one?

Sworn Staff:

- 1 Chief
- 3 Captains
- 6 Lieutenants (1 vacancy)
- 19 Sergeants (2 vacancies)
- 76 Officers (10 vacancies, 2 recruits in the police academy, 4 trainees)

Part-Time Sworn Staff:

- 4 Master Reserve Officers

Civilian Staff:

- 2 Managers
- 5 Supervisors
- 12 Dispatchers (3 vacancies, 2 trainees)
- 15 Police Service Officers/CSI (3 vacancies, 3 trainees)
- 12 Records Specialists (5 vacancies)
- 3 Property and Evidence Technicians
- 1 Crime Analyst
- 1 Emergency Operations Coordinator
- 1 Behavioral Health Resources Unit Manager
- 1 Management Analyst
- 1 Fleet Coordinator

Police Services Information
TUSD Education Center Project

Part Time Civilian Staff:

- 5 Dispatchers
- 1 Records Specialist

- 5 Police Services Officers/CSI
- 4 Detention Officers (1 vacancy)
- 1 Property and Evidence Technicians (vacant)
- 1 Fleet Coordinator
- 4 Parking Control Officers (2 vacancies)
- 5 Cadets (3 vacancies)

3.) What is Tustin Police Department's response time goal/policy standard (in minutes) for responding to emergency and non-emergency calls in the service area?

We do not have specific goals/standards for response times; however, we utilize the following procedures to ensure appropriate response to calls for service:

- Priority 1: Immediate threat to life or significant threat to public safety. These calls are dispatched immediately.
- Priority 2: Crimes in progress or other calls for service with a potential threat to public safety that do not rise to the level of a Priority 1 call. These calls are dispatched as soon as possible.
- Priority 3: Calls for service with a reporting party who is waiting for an officer.
- Priority 4: Report calls with a delay in reporting and limited suspect information.

4. What is the average response time (for emergency and non-emergency calls) in the project's reporting district/patrol route and city-wide?

Response times from January 1, 2024, to December 31, 2024, in RD-330:

- Priority 1 – 00:04:12
- Priority 2 – 00:14:26
- Priority 3 – 00:38:19
- Priority 4 – 02:01:36

Response times from January 1, 2024, to December 31, 2024, city-wide:

- Priority 1 – 00:05:37
- Priority 2 – 00:14:58
- Priority 3 – 01:03:16
- Priority 4 – 03:15:35

Police Services Information
TUSD Education Center Project

5.) Are there any existing deficiencies (e.g, personnel, equipment, facilities) in the police protection service currently provided to the project site?

Like many Police agencies, we are short-staffed. Without this project, Tustin PD needs 91 officers (up from 76) and 46 civilian employees. We do not allow our staffing needs to negatively impact the services we provide. Having said that, there are always limitations based on the unpredictable nature of our work.

6.) Any plans for new police station near the project site?

As part of the department's strategic plan for 2025-2027, the department is in the early stages of leading the construction of a new police facility, including funding and design for future training and department growth. The projected completion of this project is in 2027, with a potential site near the Tustin Legacy.

7.) Given the existing level of resources, does the Tustin Police Department anticipate that it will have adequate resources to meet the additional demands that would be generated by the proposed project?

Yes. As mentioned above, we need to increase our staffing levels, but on a day-to-day basis, this should not affect our ability to meet the demands. However, depending on the size of any special events held at the site, there may be a requirement that additional officers are hired on overtime to staff the event (at the cost of the event host).

8.) What impact other than increased service calls would the proposed project have on the Tustin Police Department's ability to provide police protection service to the projected area?

None. Having said that, negative impact can be significantly reduced, and benefits to the city as a whole can be achieved with appropriate environmental design and security considerations.

9. What are the primary sources of funding for the Tustin Police Department operations and improvements?

Departmental budget from the City of Tustin and various grant funds.

Will the proposed project be responsible for any police impact fees? If yes, who collects the fees?

- There is an annual fee if an alarm is installed. There are also charges for police response to false alarms (3 free responses given).
- Event planning fee for special events, as well as the cost of staffing the events with PD personnel.

Police Services Information
TUSD Education Center Project

10. Does the Tustin Police Department have any design guidelines or programs pertaining to reducing and/or preventing crimes through environmental design?

Yes. As follows:

Surveillance Cameras:

- During construction, covering the construction area, including any containers containing high-value items such as tools, HVAC equipment, electrical equipment, and breakers or other commonly targeted/stolen items (30-day retention).
- After construction, high-resolution cameras covering all sides of the building, including exits/entrances/warehouse doors, parking lots, and street views. These cameras should have the ability for live view as well as a minimum 30-day retention period. Consideration should be given to sharing cameras with PD as part of the future Real Time Crime Center.
- FLOCK/ALPRS cameras installed in the entrances to the parking lots.

Lighting:

- During construction, nighttime lighting should be considered near high-value items listed above.
- Effective lighting in the parking lot that illuminates all areas of the parking lots.

Security:

- Fencing around the ENTIRE perimeter of the site, both during construction and after completion. Grass, shrubbery, etc., in the non-developed portion of the site should be maintained to discourage trespassing or encampments and allow a full line of sight.
- On-site (after-hours) security during construction.
- A list of contractors/employees entering/exiting the construction site, key holders, etc., should be kept and made available when needed
- Removable security bollards installation in front of warehouse/delivery doors to prevent “door smash” burglaries after hours, while also being removable to allow access to the doors.

Traffic Plan:

- Enough parking spaces for the site
- Vehicle access points with consideration given to the turning radius/size of the trucks making deliveries.
- Vehicle gates (if a security gate will be installed) with click to enter for First Responders. It allows our radios to open the gates. The brand commonly used is “Click2Enter”.
- Posted signs at all vehicle entrances/exits that state “No Overnight Parking Violators Will be Towed” in compliance with the language, size, etc. in Tustin City Code 5342b(2)

Police Services Information
TUSD Education Center Project

Environmental Design:

- Posted signs at all pedestrian and vehicle entrances that state “No Trespassing” in compliance with language stated in Tustin City Code 6350(c).
- Address numbering that is big enough the view from the street. High enough and not obstructed by trees.

TUSTIN UNIFIED SCHOOL DISTRICT

EDUCATION CENTER PROJECT

TRAFFIC IMPACT STUDY

Prepared for:
PlaceWorks

Prepared by:
DJ&A, P.C.

September 15, 2025

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1. Project Description

Tustin Unified School District is proposing the construction of a new education center and an outdoor event space (Figure 1). The 8.51-acre proposed project site is currently vacant and is located at the west corner of the intersection of Legacy Road and Valencia Avenue.

The proposed education center would be approximately 44,945 square feet and include offices, work stations, workrooms, conference rooms, a training center, a Board Room, file storage rooms, a lounge, restrooms, a kitchen, a custodial closet, a data/tech/sound room, and a mail room. Outdoor patios with seating would be located adjacent to the building on the north, south, and east sides. The building would be intended to accommodate District personnel for various services. The new education center would accommodate the relocation of 83 employees from the existing District office at 300 South C Street in the City of Tustin and 27 employees would be relocated from the District's existing educational support center at 1151 San Juan Street, Room 4, in the City of Tustin. The proposed project would not generate new employees. The educational support center would continue to operate with a reduced number of staff at this location.

The proposed outdoor event center would include an outdoor auditorium with a shaded stage near the northeast corner of the project site. Concrete block benches for seating would fan out from the stage to the southwest. The outdoor event space would function primarily as an accessory space to other functions at the District Education Center which may include outdoor professional development functions, additional outdoor dining, and a space for presentations associated with District functions. In addition to the District's use of the outdoor event center, the outdoor events center can also be used by the community.

Direct vehicle access to the project site is provided by Legacy Road, which borders the project site to the south. Another component of the proposed construction plan includes two parking lots to serve the education center. One parking lot would be a public parking lot for visitors and staff consisting of 148 parking stalls. The other parking lot would be a secured parking lot reserved for staff parking and would consist of 108 parking stalls. Both parking lots would feature a subset of parking stalls with EV chargers. The lots would have a combined striped capacity of 256 stalls.

The project in full (including landscaping efforts) is estimated to occupy about 5.25 acres of the project site. The remaining 3.26 acres on the southwestern side of the project site would remain vacant with no known or planned development.



Figure 1 Proposed site plan diagram.

2. Methodology

2.1 Intersection Analysis

The performance criteria used for evaluating traffic volumes and capacities within the study area are based on peak hour intersection volumes. Using peak hour intersection turning movement volumes and the intersection lane geometry, intersection capacity utilization (ICU) values are calculated for the AM and PM peak hours in Synchro. The ICU values represent volume to capacity (V/C) ratios for the peak hour period. This provides a suitable measure of system performance. The traffic analysis examines the AM and PM peak hours since this is the time period where the majority of increased or new trips are anticipated to occur due to the proposed project.

2.2 Determination of Significant Impacts

Consistent with City of Tustin's traffic study guidelines, the ICU analysis methodology was applied to determine the traffic level of service (LOS) at all of the study's signalized intersections. Traffic levels of service (LOS) are designated A through F, with LOS A representing free flow conditions and LOS F representing severe traffic congestion. Table 1 summarizes the criteria for the intersection LOS calculations and the relationship between ICU and LOS.

Table 1 Level of Service Rating.

Level of Service (LOS)	ICU
A	0.00-0.60
B	0.61-0.70
C	0.71-0.80
D	0.81-0.90
E	0.91-1.00
F	Above 1.00

Each intersection's LOS was determined by the calculated ICU. For any intersection that would have an ICU at or above a 0.91 (i.e., LOS E and F), the LOS would not be acceptable. All project intersections with an ICU below 0.91 have an acceptable LOS for that given scenario.

2.3 Average Daily Traffic Analysis

Average daily traffic (ADT) data was collected as a part of this study in three locations. Existing roadway segment volumes are summarized from 24-hour counts which can be found in Appendix A. The annual traffic growth rate was assumed to be 1 percent per year, and "with project" scenario ADT volumes were calculated using estimated trips from the ITE Trip Generation Manual for the land use code 528 School District Office.

3. Study Area Intersections and Roadway Segments

Key nearby intersections and roadway segments adjacent to the project site were selected for analysis. These intersections and roadway segments are depicted in Figure 2 and Figure 3 and include:

3.1 Study Intersections

1. Legacy Road and Valencia Avenue
2. Tustin Ranch Road and Valencia Avenue
3. Kensington Park Drive and Edinger Avenue

3.2 Roadway Segments

1. Valencia Avenue, between Legacy Road and Columbus Square
2. Valencia Avenue, between Legacy Road and Tustin Ranch Road
3. Kensington Park Drive, between Valencia Avenue and Georgia Street

Traffic data for each study intersection was collected on Thursday, May 15, 2025, during the AM peak period (7:00 am – 9:00 am) and during the PM peak period (4:00 pm – 6:00pm). Average Daily Traffic (ADT) data for each study roadway segment was also collected for a full 24-hour period on Thursday, May 15, 2025.



LEGEND

1) Legacy Road and Valencia Avenue
2) Tustin Ranch Road and Valencia Avenue
3) Kensington Park Drive and Edinger Avenue

Project Site

Intersection Locations

Figure 2: Project Site and Intersection Locations



LEGEND

A) Valencia Avenue, between Legacy Road and Colombus Square
B) Valencia Avenue, between Legacy Road and Tustin Ranch Road
C) Kensington Park Drive between Valencia and Georgia St

Project Site

Roadway Segment Locations

Figure 3: Project Site and Roadway Segment Locations

4. Traffic Study Periods and Scenarios

This study analyzes traffic conditions for a range of scenarios. In more detail, traffic operations for the study area intersections and roadway segment were evaluated for each of the following scenarios:

- Existing Conditions (2025) without Project
- Opening Year (2028) without Project
- Existing Conditions (2025) with Project
- Opening Year (2028) with Project

Daily traffic conditions were analyzed for a 24-hour period for each study area roadway segment. For intersections, the AM and PM peak hours are defined as the highest one hour of traffic occurring during the AM and PM peak periods.

For the purpose of this analysis, the project opening year for background traffic conditions is 2028. This is because the proposed project's construction period is scheduled to end in January 2028. An ambient growth rate of 1% per year was used to forecast the future volumes. The analysis at the study area intersections focuses on weekday AM and PM peak hour trips.

5. Existing Conditions

This section presents the Existing Conditions (2025) in the project study area. This scenario will serve as the base for which all subsequent scenarios are assessed. Descriptions of the existing roadway network and intersection level of service analysis results for the Existing Year (2025) No Project scenario are included in this section.

5.1 Existing Roadway Network

Selected roadways that are in the vicinity of the project area are described in this section. Items of note include existing geometry, pedestrian and bicycle facilities, speed limit, parking facilities, and adjacent land uses. The selected roadways are as follows:

5.1.1 Valencia Avenue

Valencia Avenue is a four-lane two-way divided roadway that runs east and west and is located east of the project site. The posted speed limit is 45 miles per hour, except for in the area directly adjacent to Legacy Magnet School, where the posted speed limit decreases to 25 miles per hour. On the segment of Valencia Avenue between Legacy Road and Columbus Square, there is only a sidewalk on the westbound side. However, on the segment of Valencia Avenue between Legacy Road and Tustin Ranch Road, there are sidewalks on both sides of the road. There are dedicated bike lanes on both sides of the road, and parking is not permitted on the roadway shoulder. The adjacent businesses and apartment complexes provide off-street parking on their lots. The surrounding land use is a mix of residential, commercial, and institutional.

5.1.2 Legacy Road

Legacy Road is a three-lane two-way roadway that runs north and south and is located southwest of the project site. The posted speed limit is 25 miles per hour. Sidewalks and dedicated bike lanes are located on the both sides of the road. Parking is not permitted on the roadway shoulder, but the surrounding institutional buildings provide off-street parking on their lots. The surrounding land use is primarily institutional.

5.1.3 Tustin Ranch Road

Tustin Ranch Road is a six-lane two-way divided roadway that runs north and south to the east of the project site. The posted speed limit is 50 miles per hour. Sidewalks and bike lanes are provided on both sides of the road. Parking is not permitted on the roadway shoulder. The surrounding land use is primarily commercial and institutional.

5.1.4 Edinger Avenue

Edinger Avenue is a six-lane two-way road that runs east and west and is located on the north side of Valencia Avenue, northeast of the project site. The posted speed limit is 50 miles per hour. Sidewalks (a mix of paved and unpaved segments) are located on both the east and west sides of Edinger Avenue. The roadway has a dedicated bike lane traveling in each direction. There are also train tracks that run parallel to the westbound side of the road. Parking is not permitted on the roadway shoulder. The surrounding land use is primarily residential and commercial.

5.1.5 Kensington Park Drive

Kensington Park Drive is a five-lane two-way road that runs north and south and is located off the north side of Valencia Avenue, northeast of the project site. The posted speed limit is 40 miles per hour. Sidewalks are located on the east and west sides of Kensington Park Drive. The roadway has a dedicated bike lane traveling in each direction. Parallel parking is not permitted on the roadway shoulder. The land use is residential on the southbound side of the road and commercial on the northbound side.

5.2 Average Daily Traffic

The average daily traffic (ADT) volumes for the study area roadway segments under Existing Conditions are summarized in Table 2. Existing roadway segment volumes are summarized from 24-hour counts which can be found in Appendix A.

Table 2 Roadway Average Daily Traffic (ADT).

Roadway	Source	Date	EXISTING ADT
Valencia Ave, between Legacy Rd and Columbus Sq	AimTD LLC	5/15/25	10,706
Valencia Ave, between Legacy Rd and Tustin Ranch Rd	AimTD LLC	5/15/25	12,057
Kensington Park Dr, between Valencia and Georgia St	AimTD LLC	5/15/25	7,430

5.3 Intersection Levels of Service

Intersection performance was determined using the methods outlined in Section 2. Table 3 summarizes the existing levels of service at the study intersections. The complete Synchro analysis output summaries for the AM and PM peak hours are reported in Appencies C and D. All three study intersections currently operate at an acceptable level of service during both the AM and PM peak hours. Existing study intersection geometries are shown in Figure 4. Additionally, Existing Year (2025) No Project AM and PM peak hour turning movement volumes are shown in Figure 5.

Table 3 Existing Intersection Levels of Service.

Intersection	Time of Day	Existing	
		ICU	LOS
Legacy Rd and Valencia Ave	AM peak hour	0.568	B
	PM peak hour	0.427	A
Tustin Ranch Rd and Valencia Ave	AM peak hour	0.610	B
	PM peak hour	0.595	B
Kensington Park Dr and Valencia Ave	AM peak hour	0.367	A
	PM peak hour	0.511	A



LEGEND

- Study Intersection
- X AM Peak Hour Volume
- X PM Peak Hour Volume
- Project Site

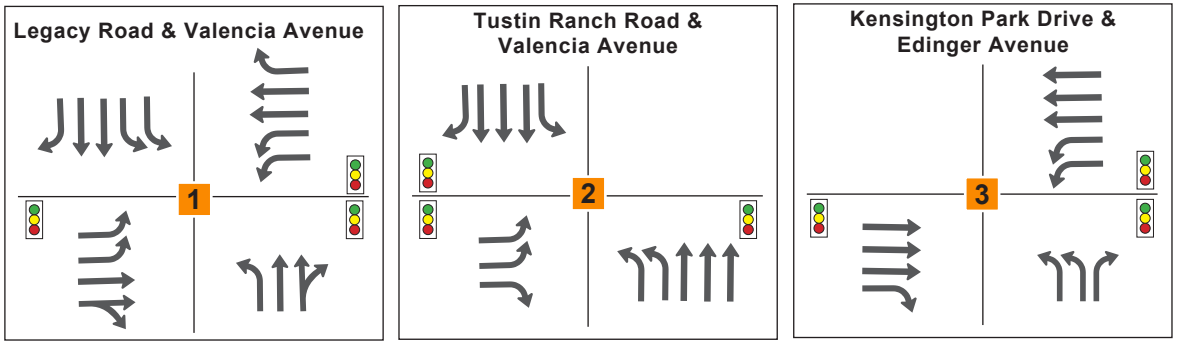


Figure 4: Existing Intersection Geometry



LEGEND

- Study Intersection
- AM Peak Hour Volume
- PM Peak Hour Volume
- Project Site

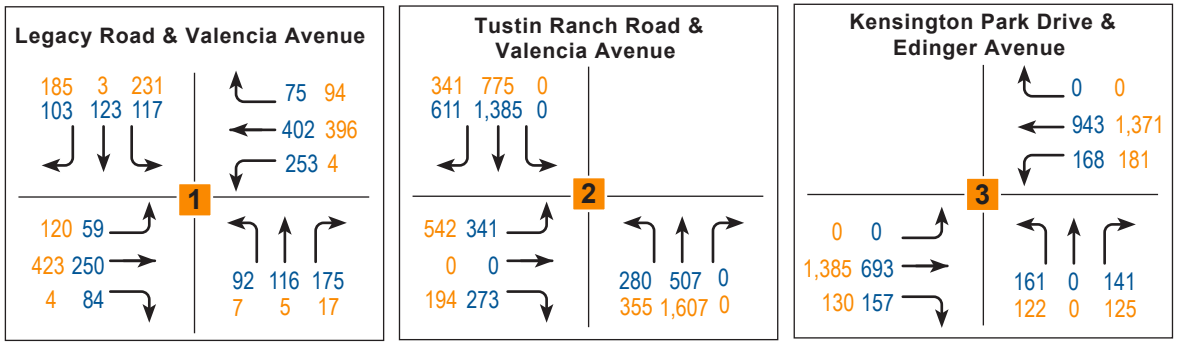


Figure 5: Existing Year (2025) Intersection No Project Volumes AM-PM

6. Opening Year (2028) No Project

This section presents the roadway ADT and intersection peak hour traffic operations for the Opening Year (2028) No Project scenario. Year 2028 traffic volumes were developed by applying a 1 percent annual growth rate to Existing Year (2025) counts. Results for the average daily traffic and intersection level of service for the Opening Year (2028) No Project scenario are presented in this section.

6.1 Average Daily Traffic

The average daily traffic for the study area roadway segment in the Opening Year (2028) No Project scenario is presented in Table 4.

Table 4 Estimated ADT Opening Year with No Project.

Roadway	EXISTING ADT	2028 (No Project)
Valencia Ave, between Legacy Rd and Columbus Sq	10,706	11,030
Valencia Ave, between Legacy Rd and Tustin Ranch Rd	12,057	12,422
Kensington Park Dr, between Valencia and Georgia St	7,430	7,655

6.2 Intersection Levels of Service

A summary of the AM and PM peak hour intersection level of service analysis results for the Opening Year (2028) No Project scenario is presented in Table 5. The complete Synchro analysis output summaries for the AM and PM peak hours are reported in Appencies E and F. Opening Year (2028) No Project AM and PM peak hour turning movement volumes are shown in Figure 6. All three intersections are forecasted to operate at acceptable levels of service during the Opening Year No Project conditions.

Table 5 Opening Year (2028) No Project Intersection LOS.

Intersection	Time of Day	Existing		2028 (No Project)		Δ ICU
		ICU	LOS	ICU	LOS	
Legacy Rd and Valencia Ave	AM peak hour	0.568	B	0.580	B	0.012
	PM peak hour	0.427	A	0.433	A	0.006
Tustin Ranch Rd and Valencia Ave	AM peak hour	0.610	B	0.624	B	0.014
	PM peak hour	0.595	B	0.611	B	0.016
Kensington Park Dr and Valencia Ave	AM peak hour	0.367	A	0.375	A	0.008
	PM peak hour	0.511	A	0.522	A	0.011



LEGEND

- Study Intersection
- AM Peak Hour Volume
- PM Peak Hour Volume
- Project Site

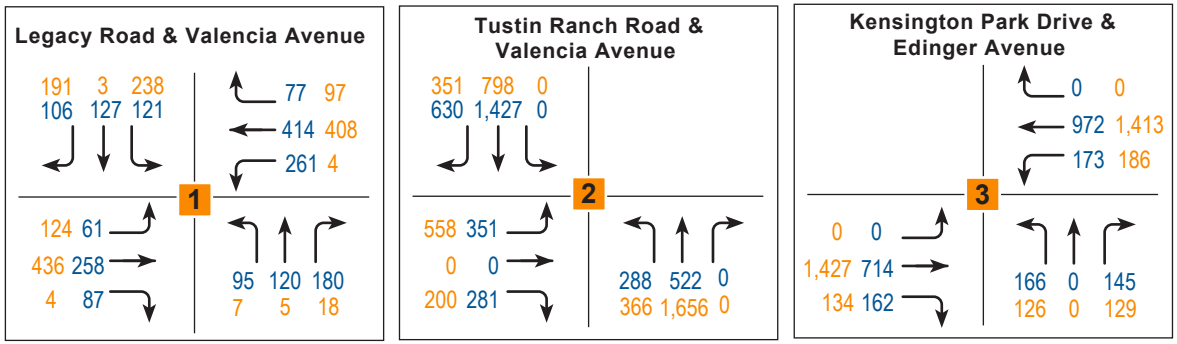


Figure 6: Opening Year (2028) Intersection No Project Volumes AM-PM

7. Project Conditions

7.1 Trip Generation and Distribution

The trip generation for the Tustin District Office Project was estimated using rates published in the ITE Trip Generation Manual 12th Edition. The proposed project would create additional office-related opportunities for District personnel. These activities would take place during regular work hours and generate trips during the AM and PM peak hours of weekdays.

The project is expected to generate 646 trips on weekdays. The project is expected to generate 106 trips during the AM peak hour, with 76% (81 vehicles) entering the site and 24% (25 vehicles) exiting the site. During the PM peak hour, the project is expected to generate 92 trips, with 17% (16 vehicles) entering the site and 83% (76 vehicles) exiting the site.

The number of trips resulting from the proposed project were estimated using the ITE Trip Generation Manual 12th Edition values for Land Use Code 528 School District Office. The estimates for the weekday AM Peak, weekday PM Peak, and weekday daily conditions are presented in Appendix B. It is acknowledged that an outdoor event center is also being built as part of this project, but the number of additional trips generated by the outdoor event center was not included in this analysis because the project description establishes that the outdoor event center would be typically be utilized by district staff already on-site during weekday daytime hours and the community outside of peak AM and PM hours and on weekends. As such, no significant weekday AM or PM peak hour impacts to traffic are anticipated.

7.2 VMT Project Impacts

The vehicle miles travelled (VMT) screening analysis for the Tustin education center was completed following the City of Tustin's VMT Guidelines for CEQA (adopted May 2024). These guidelines identify a set of screening criteria to apply to new projects to determine if the project can be screened out (identified to have a less-than-significant impact on VMT) or if the project's effect on VMT requires more involved analysis to determine if the project would create a significant impact and would require measures to mitigate VMT impacts.

The project's performance under each of the screening criteria identified by the City of Tustin is detailed below:

- 100% Affordable Housing – The project is not a housing project and not eligible to be screened out under this category.
- Located within ½ mile of qualifying transit – The project is located outside of a ½ mile radius of the Tustin Metrolink station and is not eligible to be screened out under this category.
- Locally Serving Land Use – The City of Tustin identifies local serving civic uses as locally serving uses that are not required to conduct more detailed VMT analysis. These uses include libraries, civic centers, and community facilities. A school district office, including a small community center, would qualify under this criteria.
- Located in a low VMT area – The City has identified several transportation analysis zones (TAZ) where household per capita VMT or VMT per employee is lower than the citywide average. If a project is located in one of these VMT areas it can be screened out from further

VMT analysis. The proposed project is not located in a low VMT area and is not eligible to be screened out under this category.

- New project daily trips below 500 ADT – Smaller projects are assumed to have a less-than-significant impact on VMT and can be screened out from further analysis. The new education center would involve relocating some of the District's existing administrative uses to the new site. Because the proposed project is a relocation of an existing use, with some expansion, the project is anticipated to result in a net increase of less than 500 new daily trips. As highlighted in Section 7.1 of this report, the project would be anticipated to generate 646 daily trips in its new location. A significant portion of these daily trips would involve the relocation of existing trips as the district plans to relocate 83 employees from the existing District office at 300 South C Street in Tustin and 27 employees from the district's existing educational support center at 1151 San Juan Street in Tustin. The ITE Trip Generation Manual, 12th Edition estimates 5.08 daily trips per employee for the school district office land use type. Applying this rate to the 110 employees being relocated results in a forecast of 559 daily trips that would be relocated trips rather than new vehicle trips. The relocation of these existing vehicle trips would reduce the estimated net new daily trips generated by the project to 87 vehicle trips, well below 500 trips per day, allowing the project to qualify under this criterion.

Based on review of the screening criteria above, the proposed project satisfies two of the criteria adopted by the City of Tustin. Therefore, the project's impact on a VMT is anticipated to be less-than-significant.

8. Existing Year (2025) With Project

This section presents the ADT of the Existing Year (2025) With Project scenario. With Project traffic volumes were developed by adding the anticipated ADT trips to Existing Year (2025) count. Results for the average daily traffic and intersection level of service for the Existing Year (2025) With Project scenario are presented in this section.

8.1 Average Daily Traffic

The average daily traffic (ADT) volumes for the study area roadway segments under Existing Year (2025) With Project conditions are summarized in Table 6. Existing roadway segment volumes are summarized from 24-hour counts which can be found in Appendix A.

Table 6 Estimated ADT Existing Year with Project

Roadway	EXISTING ADT	2025 (With Project)
Valencia Ave, between Legacy Rd and Columbus Sq	10,706	11,352
Valencia Ave, between Legacy Rd and Tustin Ranch Rd	12,057	12,703
Kensington Park Dr, between Valencia and Georgia St	7,430	8,076

8.2 Intersection Levels of Service

A summary of the AM and PM peak hour intersection level of service analysis results for the Existing Year (2025) With Project scenario are presented in Table 7. The complete Synchro analysis output summaries for the AM and PM peak hours are reported in Appencies G and H. Existing Year (2025) With Project AM and PM peak hour turning movement volumes are shown in Figure 7. All three intersections are forecasted to operate at acceptable levels of service during the Existing Year (2025) With Project conditions.

Table 7 Existing Year (2025) With Project Intersection LOS

Intersection	Time of Day	Existing		2025 (With Project)		Δ ICU
		ICU	LOS	ICU	LOS	
Legacy Rd and Valencia Ave	AM peak hour	0.568	B	0.600	B	0.032
	PM peak hour	0.427	A	0.429	A	0.002
Tustin Ranch Rd and Valencia Ave	AM peak hour	0.610	B	0.616	B	0.006
	PM peak hour	0.595	B	0.605	B	0.010
Kensington Park Dr and Valencia Ave	AM peak hour	0.367	A	0.372	A	0.005
	PM peak hour	0.511	A	0.512	A	0.001



LEGEND

- Study Intersection
- AM Peak Hour Volume
- PM Peak Hour Volume
- Project Site

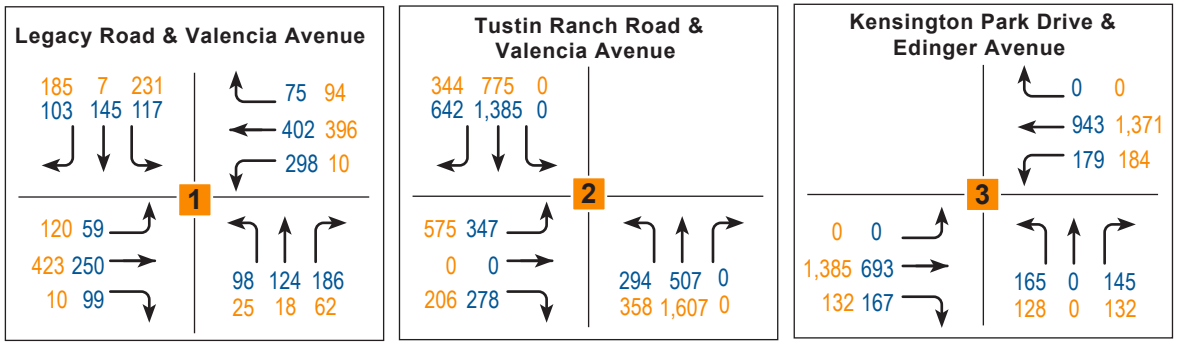


Figure 7: Existing Year (2025) Intersection With Project Volumes AM-PM

9. Opening Year (2028) With Project

This section presents the ADT and LOS estimates of the Opening Year (2028) With Project scenario.

9.1 Average Daily Traffic

The project is expected to generate 646 trips throughout the day (weekday). As previously mentioned, this was calculated using the ITE Trip Generation Manual values for Land Use Code 528 School District Office. The ADT is assumed to grow at a 1 percent rate per year. Existing roadway segment volumes are summarized from 24-hour counts which can be found in Appendix A.

The estimated intersection trip distributions assuming the additional traffic volumes projected due to the Project are shown in Figure 8 (AM) and Figure 9 (PM). Table 8 below shows the estimated additional ADT volumes for each roadway segment, by scenario. The last column of Table 8 shows ADT estimates for the Opening Year (2028) With Project scenario.

Table 8 Estimated Project ADT Impacts

Roadway	EXISTING ADT	2028 (No project)	2025 (With Project)	2028 (With Project)
Valencia Ave, between Legacy Rd and Columbus Sq	10,706	11,030	11,352	11,676
Valencia Ave, between Legacy Rd and Tustin Ranch Rd	12,057	12,422	12,703	13,068
Kensington Park Dr, between Valencia and Georgia St	7,430	7,655	8,076	8,301

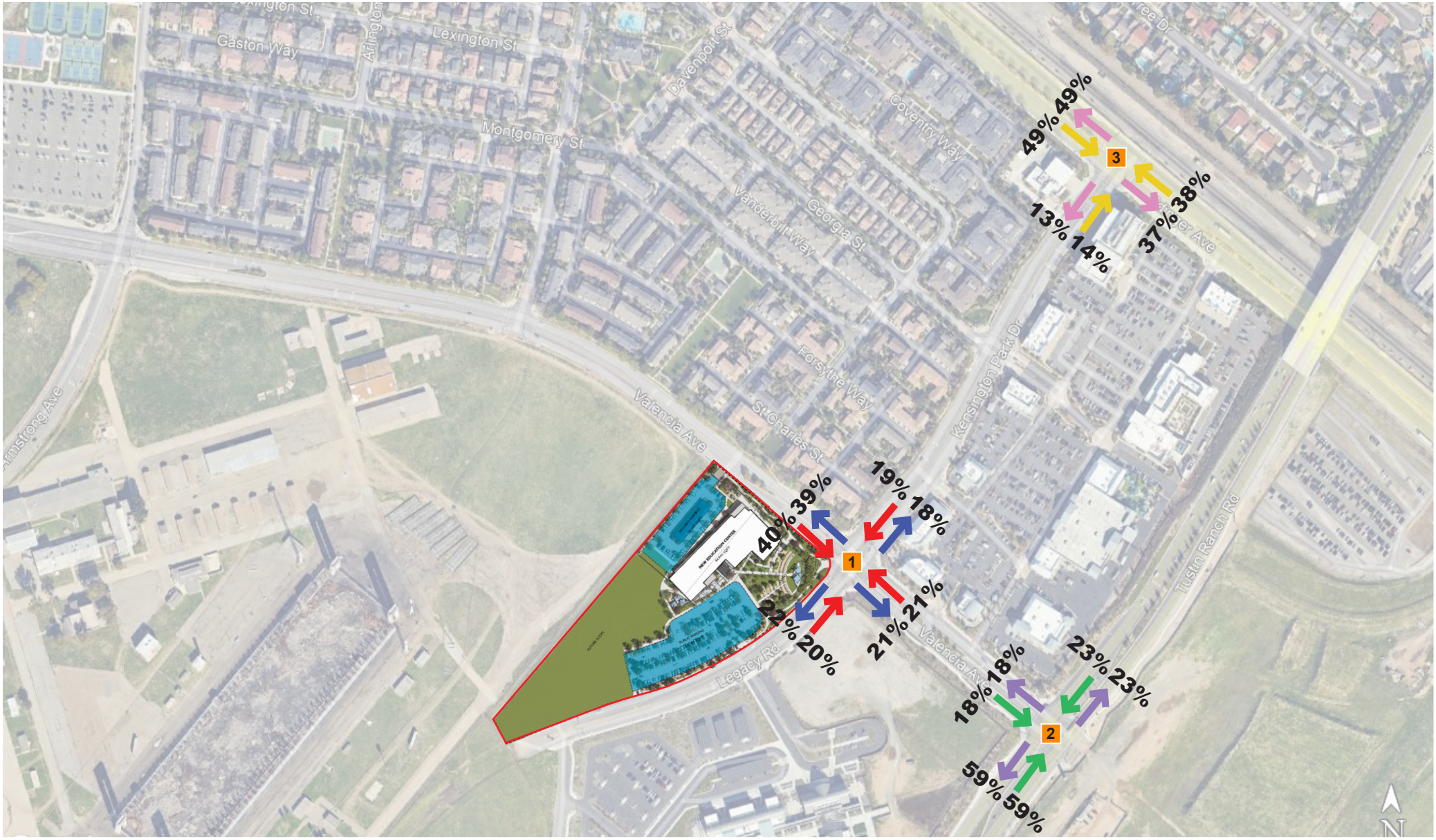


Figure 8: Estimated Trip Distribution AM

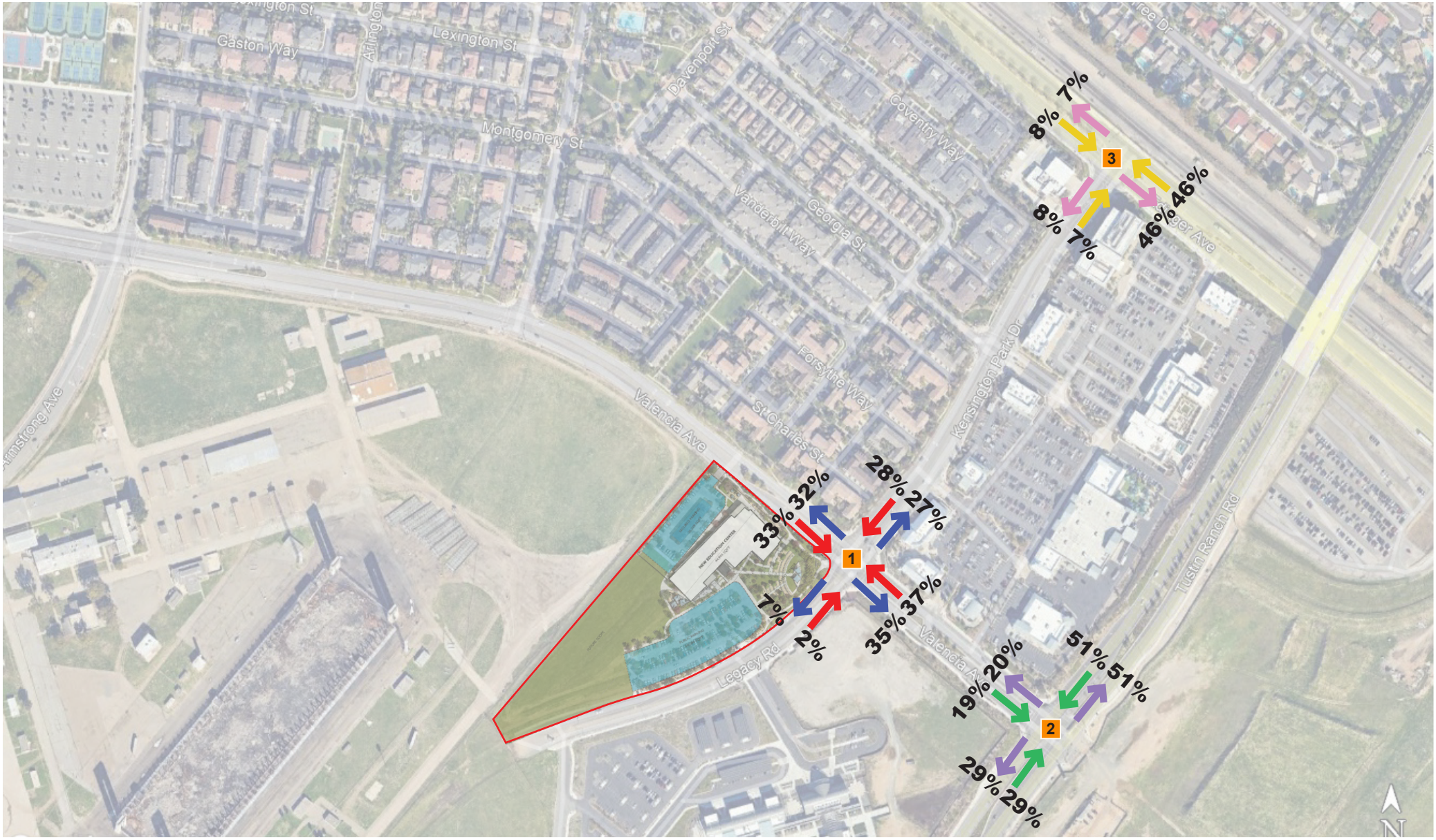


Figure 9: Estimated Trip Distribution PM

9.2 Intersection Levels of Service

A summary of the AM and PM peak hour intersection level of service analysis results for the Opening Year (2028) With Project scenario is presented in Table 9. The complete Synchro analysis output summaries for the AM and PM peak hours are reported in Appencies I and J. Opening Year (2028) With Project AM and PM peak hour turning movement volumes are shown in Figure 10. All three intersections are forecasted to operate at acceptable levels of service during the Opening Year With Project conditions.

Table 9 Opening Year (2028) With Project Intersection LOS

Intersection	Time of Day	2028 (No Project)		2028 (With Project)		Δ ICU
		ICU	LOS	ICU	LOS	
Legacy Rd and Valencia Ave	AM peak hour	0.580	B	0.612	B	0.032
	PM peak hour	0.433	A	0.435	A	0.002
Tustin Ranch Rd and Valencia Ave	AM peak hour	0.624	B	0.631	B	0.007
	PM peak hour	0.611	B	0.621	B	0.010
Kensington Park Dr and Valencia Ave	AM peak hour	0.375	A	0.380	A	0.005
	PM peak hour	0.522	A	0.523	A	0.001



LEGEND

- Study Intersection
- AM Peak Hour Volume
- PM Peak Hour Volume
- Project Site

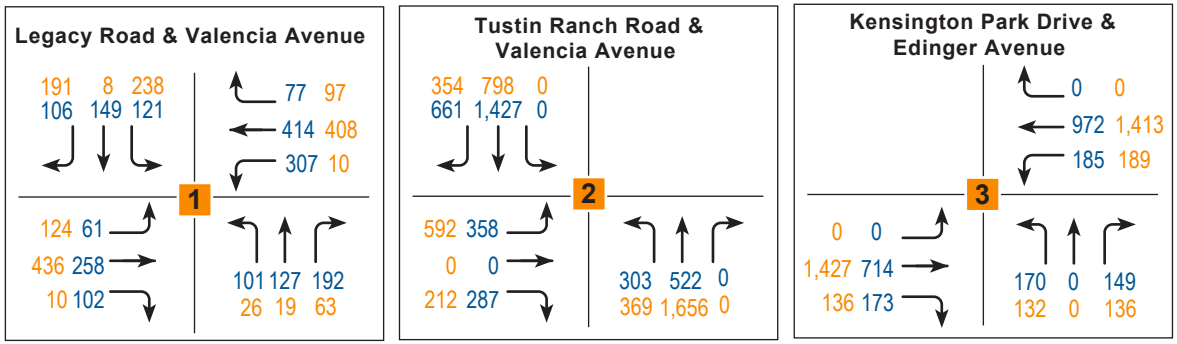


Figure 10: Opening Year (2028) Intersection With Project Volumes AM-PM

10. Conclusions

Below are the summary tables for the ICU percentage and corresponding LOS, separated by intersection.

Table 10 Legacy Rd and Valencia Ave ICU Summary, by time of day

Legacy Rd and Valencia Ave					
Time of day	**Summary type**	**2025 (No Project)**	**2025 (With Project)**	**2028 (No Project)**	**2028 (With Project)**
AM peak hour	ICU	0.568	0.600	0.580	0.612
	LOS	B	B	B	B
PM peak hour	ICU	0.427	0.429	0.433	0.435
	LOS	A	A	A	A

Table 11 Tustin Ranch Rd and Valencia Ave ICU Summary, by time of day

Tustin Ranch Rd and Valencia Ave					
Time of day	**Summary type**	**2025 (No Project)**	**2025 (With Project)**	**2028 (No Project)**	**2028 (With Project)**
AM peak hour	ICU	0.610	0.616	0.624	0.631
	LOS	B	B	B	B
PM peak hour	ICU	0.595	0.605	0.611	0.621
	LOS	B	B	B	B

Table 12 Kensington Park Dr and Valencia Ave ICU Summary, by time of day

Tustin Ranch Rd and Valencia Ave					
Time of day	**Summary type**	**2025 (No Project)**	**2025 (With Project)**	**2028 (No Project)**	**2028 (With Project)**
AM peak hour	ICU	0.367	0.372	0.375	0.380
	LOS	A	A	A	A
PM peak hour	ICU	0.511	0.512	0.522	0.523
	LOS	A	A	A	A

Based on the results of the level of service analysis, the proposed project for Tustin Unified School District can be implemented without significantly impacting any of the study intersections or roadway segments. All three study intersections operate at an acceptable level of service under both Existing Year (2025) and Opening Year (2028) With Project scenarios. Since there were no significant impacts with the addition of the project, mitigation measures were not necessary based on the analysis.

Appendix A—Turning Movement & Roadway Segment Counts

INTERSECTION TURNING MOVEMENT COUNTS

T112224

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, May 15, 25

LOCATION: Tustin
NORTH & SOUTH: Legacy Rd
EAST & WEST: Valencia Ave

PROJECT #: SC5406
LOCATION #: 1
CONTROL: SIGNAL

NOTES:

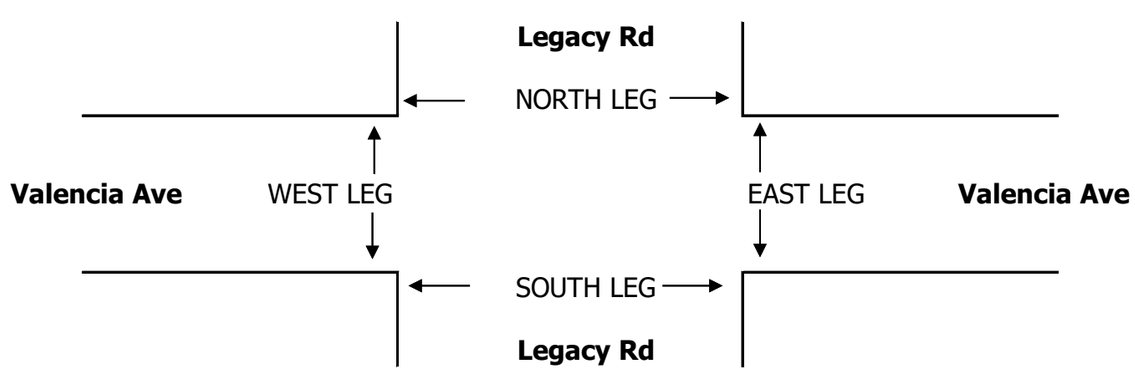
AM
PM
MD
OTHER
OTHER

N ▲ S ▼ W ◄ E ►

	NORTHBOUND (NE) Legacy Rd			SOUTHBOUND (SW) Kensington Park Dr			EASTBOUND (SE) Valencia Ave			WESTBOUND (NW) Valencia Ave			
LANES:	NL 1	NT 2	NR 0	SL 2	ST 2	SR 1	EL 2	ET 2	ER 0	WL 2	WT 2	WR 1	TOTAL
7:00 AM	0	0	3	17	2	13	7	28	4	16	41	9	140
7:15 AM	17	14	29	26	35	26	6	30	19	83	60	14	359
7:30 AM	24	20	32	28	17	33	12	39	7	36	90	19	357
7:45 AM	9	11	33	32	20	23	12	83	23	50	157	27	480
8:00 AM	24	29	52	23	40	24	23	72	29	68	82	13	479
8:15 AM	35	56	58	34	46	23	12	56	25	99	73	16	533
8:30 AM	17	24	32	29	18	30	15	54	4	16	87	16	342
8:45 AM	0	3	3	29	4	37	12	50	3	5	114	18	278
VOLUMES	126	157	242	218	182	209	99	412	114	373	704	132	2,972
APPROACH %	24%	30%	46%	36%	30%	34%	16%	66%	18%	31%	58%	11%	
APP/DEPART	525	/	388	609	/	669	625	/	876	1,213	/	1,039	0
BEGIN PEAK HR		7:30 AM											
VOLUMES	92	116	175	117	123	103	59	250	84	253	402	75	1,853
APPROACH %	24%	30%	46%	34%	36%	30%	15%	64%	21%	34%	55%	10%	
PEAK HR FACTOR		0.643			0.833			0.792			0.781		0.864
APP/DEPART	383	/	250	343	/	460	393	/	546	734	/	597	0
4:00 PM	4	8	13	62	1	45	27	90	0	1	54	25	330
4:15 PM	3	2	4	47	2	42	22	94	3	3	62	16	300
4:30 PM	4	1	7	55	0	45	31	101	2	1	71	24	342
4:45 PM	0	1	7	63	1	45	29	92	1	1	78	18	336
5:00 PM	3	1	3	49	1	48	40	114	0	2	99	22	382
5:15 PM	0	2	0	64	1	47	20	116	1	0	148	30	429
5:30 PM	1	0	0	50	0	36	30	106	0	0	94	26	343
5:45 PM	0	1	1	49	1	51	23	93	0	1	92	21	333
VOLUMES	15	16	35	439	7	359	222	806	7	9	698	182	2,803
APPROACH %	23%	24%	53%	55%	1%	45%	21%	78%	1%	1%	78%	20%	
APP/DEPART	66	/	420	805	/	23	1,036	/	1,287	896	/	1,073	0
BEGIN PEAK HR		4:30 PM											
VOLUMES	7	5	17	231	3	185	120	423	4	4	396	94	1,496
APPROACH %	24%	17%	59%	55%	1%	44%	22%	77%	1%	1%	79%	19%	
PEAK HR FACTOR		0.604			0.935			0.884			0.694		0.868
APP/DEPART	29	/	219	419	/	11	548	/	677	500	/	589	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	3	3
0	0	0	0	0
0	0	0	0	0
0	0	0	4	4
0	0	0	4	
0	0	0	1	1
0	0	0	0	0
0	0	0	3	3
0	0	0	0	0
0	0	1	1	2
0	0	0	2	2
0	0	0	0	0
0	0	0	0	0
0	0	1	7	8
0	0	1	6	



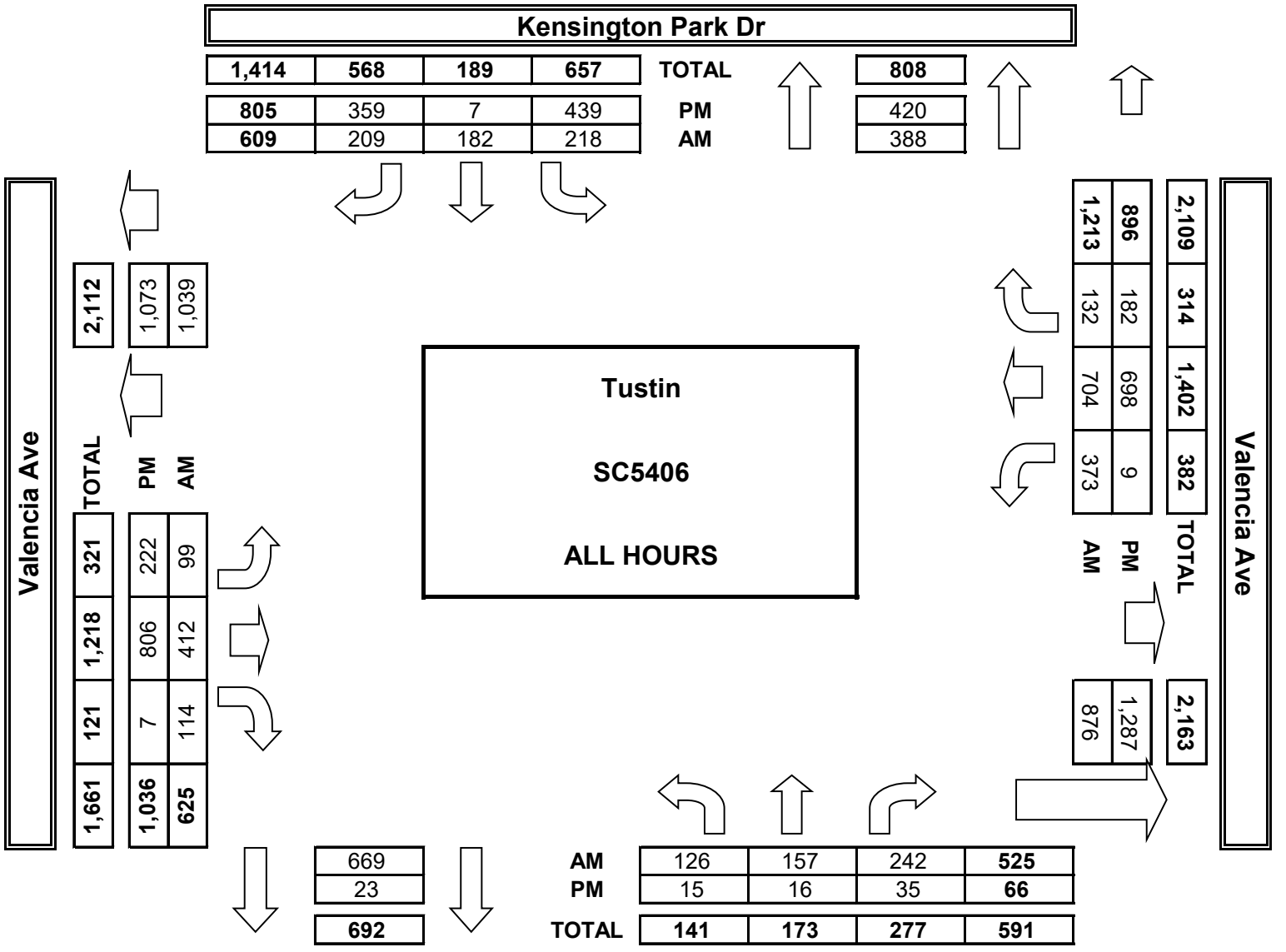
		ALL PED + BIKE & SCOOTER				
		N LEG	S LEG	E LEG	W LEG	TOTAL
AM	7:00 AM	0	1	0	0	1
	7:15 AM	5	9	7	8	29
	7:30 AM	4	0	7	0	11
	7:45 AM	13	4	23	6	46
	8:00 AM	6	4	22	4	36
	8:15 AM	12	9	26	8	55
	8:30 AM	0	2	1	2	5
	8:45 AM	2	1	0	1	4
	TOTAL	42	30	86	29	187
	BEGIN PEAK HR	7:30 AM				
PM	4:00 PM	2	1	2	1	6
	4:15 PM	0	0	0	0	0
	4:30 PM	2	2	0	1	5
	4:45 PM	1	0	0	0	1
	5:00 PM	2	0	1	0	3
	5:15 PM	2	0	0	0	2
	5:30 PM	1	5	2	4	12
	5:45 PM	0	0	0	0	0
	TOTAL	10	8	5	6	29
	BEGIN PEAK HR	4:30 PM				

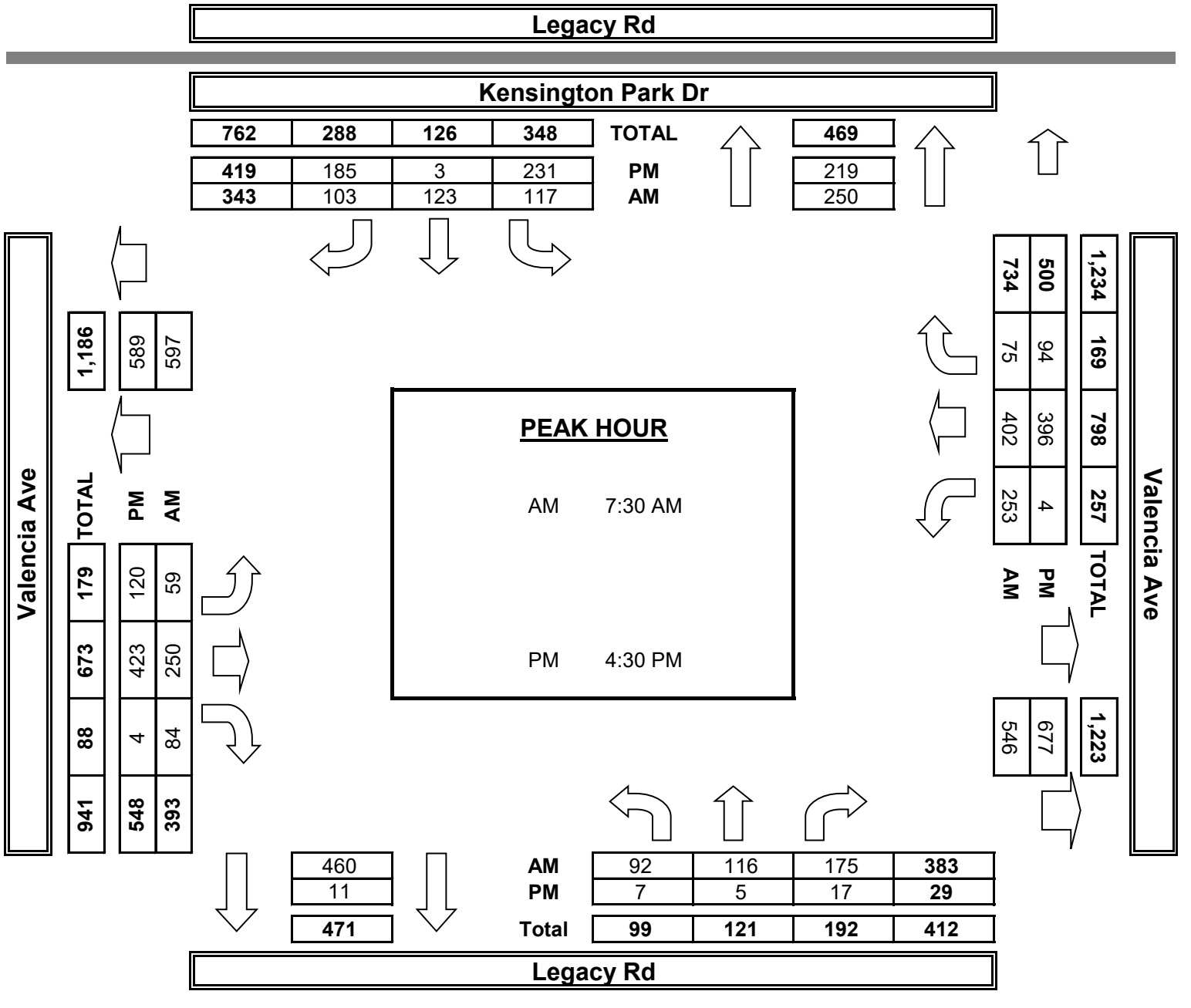
PEDESTRIAN CROSSINGS				
N LEG	S LEG	E LEG	W LEG	TOTAL
0	0	0	0	0
2	6	4	6	18
3	0	5	0	8
11	3	22	3	39
6	2	21	2	31
10	8	23	5	46
0	2	1	1	4
1	1	0	1	3
33	22	76	18	149
30	13	71	10	124
1	0	2	0	3
0	0	0	0	0
1	1	0	1	3
1	0	0	0	1
1	0	1	0	2
0	0	0	0	0
1	1	1	2	5
0	0	0	0	0
5	2	4	3	14
3	1	1	1	6

BICYCLE & SCOOTER CROSSINGS				
NL	SL	EL	WL	TOTAL
0	1	0	0	1
3	3	3	2	11
1	0	2	0	3
2	1	1	3	7
0	2	1	2	5
2	1	3	3	9
0	0	0	1	1
1	0	0	0	1
9	8	10	11	38
1	1	0	1	3
0	0	0	0	0
1	1	0	0	2
0	0	0	0	0
1	0	0	0	1
2	0	0	0	2
0	4	1	2	7
0	0	0	0	0
5	6	1	3	15

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

T112224

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Thu, May 15, 25	LOCATION:	Tustin	PROJECT #:	SC5406
	NORTH & SOUTH:	Tustin Ranch Rd	LOCATION #:	2
	EAST & WEST:	Valencia Ave	CONTROL:	SIGNAL

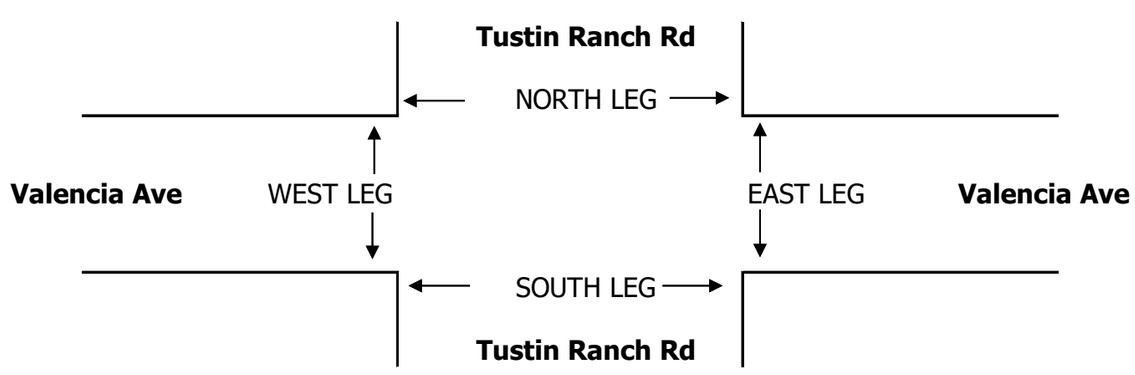
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (NE) Tustin Ranch Rd			SOUTHBOUND (SW) Tustin Ranch Rd			EASTBOUND (SE) Valencia Ave			WESTBOUND Valencia Ave			
LANES:	NL 2	NT 3	NR X	SL 1	ST 3	SR 1	EL 2	ET X	ER 1	WL X	WT X	WR X	TOTAL
7:00 AM	21	68	0	0	155	78	35	0	23	0	0	0	380
7:15 AM	42	112	0	0	231	141	39	0	38	0	0	0	603
7:30 AM	66	113	0	0	338	122	88	0	43	0	0	0	770
7:45 AM	100	157	0	0	321	169	80	0	67	0	0	0	894
8:00 AM	55	115	0	0	375	156	87	0	85	0	0	0	873
8:15 AM	59	122	0	0	351	164	86	0	78	0	0	0	860
8:30 AM	34	122	0	0	343	126	81	0	54	0	0	0	760
8:45 AM	29	102	0	0	379	141	62	0	34	0	0	0	747
AM VOLUMES	406	911	0	0	2,493	1,097	558	0	422	0	0	0	5,898
AM APPROACH %	31%	69%	0%	0%	69%	30%	57%	0%	43%	0%	0%	0%	
AM APP/DEPART	1,318	/	1,479	3,600	/	2,916	980	/	0	0	/	1,503	0
AM BEGIN PEAK HR		7:30 AM											
AM VOLUMES	280	507	0	0	1,385	611	341	0	273	0	0	0	3,402
AM APPROACH %	36%	64%	0%	0%	69%	31%	56%	0%	44%	0%	0%	0%	
AM PEAK HR FACTOR		0.767			0.936			0.892			0.000		0.951
AM APP/DEPART	788	/	852	2,000	/	1,659	614	/	0	0	/	891	0
4:00 PM	57	377	0	0	151	65	112	0	57	0	0	0	819
4:15 PM	65	376	0	0	198	65	121	0	44	0	0	0	869
4:30 PM	66	379	0	0	201	84	147	0	49	0	0	0	926
4:45 PM	71	388	0	0	198	66	115	0	46	0	0	0	884
5:00 PM	106	417	0	0	181	70	138	0	49	0	0	0	961
5:15 PM	112	423	0	0	195	121	142	0	50	0	0	0	1,043
5:30 PM	97	354	0	0	204	84	114	0	56	0	0	0	909
5:45 PM	75	312	0	0	186	69	122	0	58	0	0	0	822
PM VOLUMES	649	3,026	0	0	1,514	624	1,011	0	409	0	0	0	7,249
PM APPROACH %	18%	82%	0%	0%	70%	29%	71%	0%	29%	0%	0%	0%	
PM APP/DEPART	3,675	/	4,052	2,153	/	1,923	1,421	/	0	0	/	1,274	0
PM BEGIN PEAK HR		4:30 PM											
PM VOLUMES	355	1,607	0	0	775	341	542	0	194	0	0	0	3,822
PM APPROACH %	18%	82%	0%	0%	69%	30%	74%	0%	26%	0%	0%	0%	
PM PEAK HR FACTOR		0.917			0.884			0.939			0.000		0.914
PM APP/DEPART	1,962	/	2,157	1,124	/	969	736	/	0	0	/	696	0

U-TURNS

	NB	SB	EB	WB	TTL
	0	0	0	0	
7:00 AM	0	1	0	0	1
7:15 AM	0	1	0	0	1
7:30 AM	0	1	0	0	1
7:45 AM	0	0	0	0	0
8:00 AM	0	3	0	0	3
8:15 AM	1	0	0	0	1
8:30 AM	0	0	0	0	0
8:45 AM	0	4	0	0	4
AM VOLUMES	1	10	0	0	11
AM BEGIN PEAK HR					
AM VOLUMES	1	4	0	0	
4:00 PM	0	1	0	0	1
4:15 PM	0	3	0	0	3
4:30 PM	0	2	0	0	2
4:45 PM	0	2	0	0	2
5:00 PM	0	2	0	0	2
5:15 PM	0	2	0	0	2
5:30 PM	0	2	1	0	3
5:45 PM	0	1	0	0	1
PM VOLUMES	0	15	1	0	16
PM BEGIN PEAK HR					
PM VOLUMES	0	8	0	0	



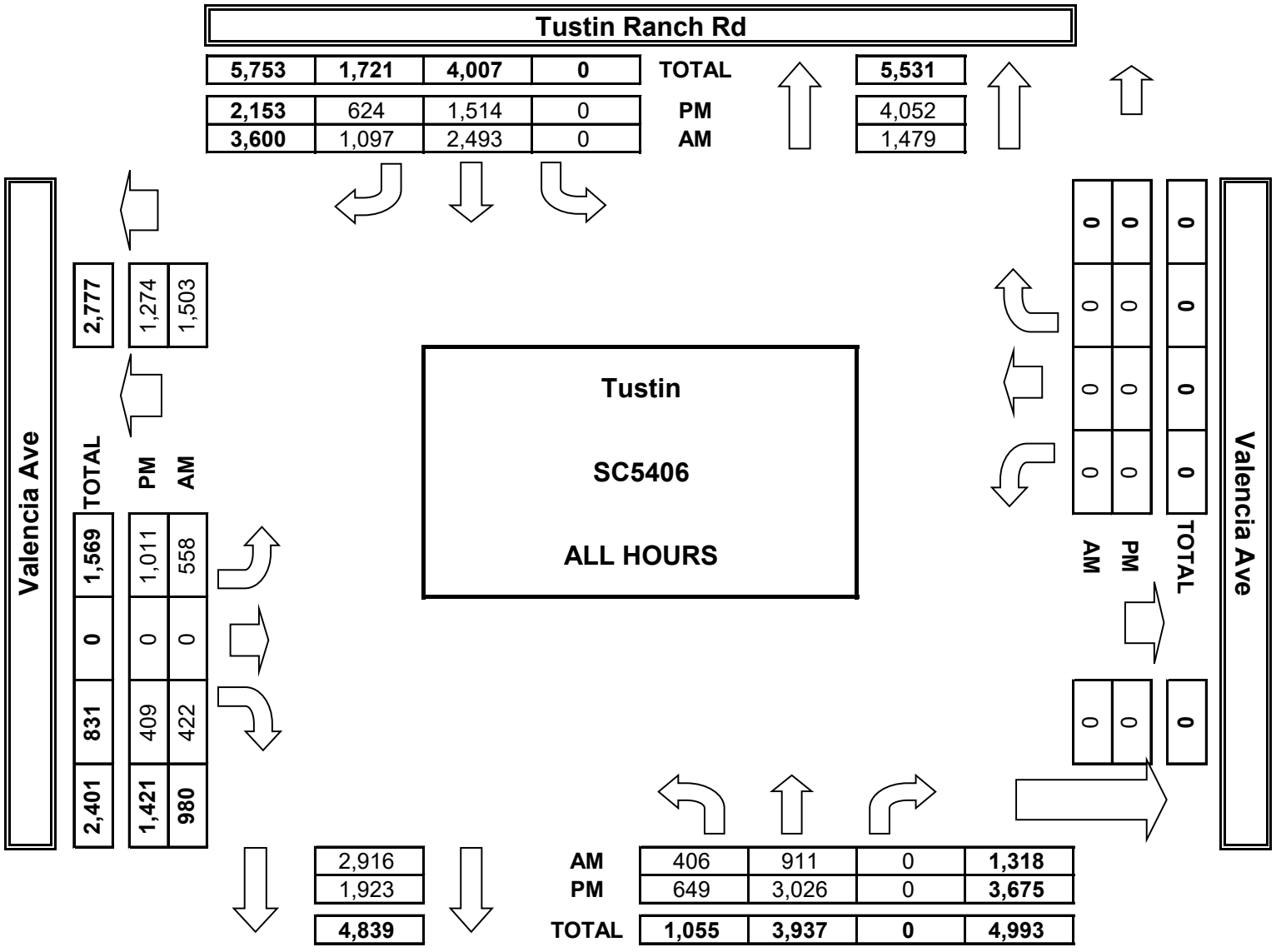
		ALL PED + BIKE & SCOOTER				
		N LEG	S LEG	E LEG	W LEG	TOTAL
AM	7:00 AM	0	1	3	3	7
	7:15 AM	0	2	0	1	3
	7:30 AM	0	1	0	1	2
	7:45 AM	2	4	6	1	13
	8:00 AM	0	2	0	3	5
	8:15 AM	0	3	3	3	9
	8:30 AM	1	2	0	1	4
	8:45 AM	3	0	0	2	5
	TOTAL	6	15	12	15	48
	BEGIN PEAK HR	7:30 AM				
PM	4:00 PM	0	0	1	2	3
	4:15 PM	0	1	0	2	3
	4:30 PM	0	3	1	3	7
	4:45 PM	0	0	0	1	1
	5:00 PM	1	0	1	0	2
	5:15 PM	2	0	0	8	10
	5:30 PM	1	2	3	0	6
	5:45 PM	0	0	0	1	1
	TOTAL	4	6	6	17	33

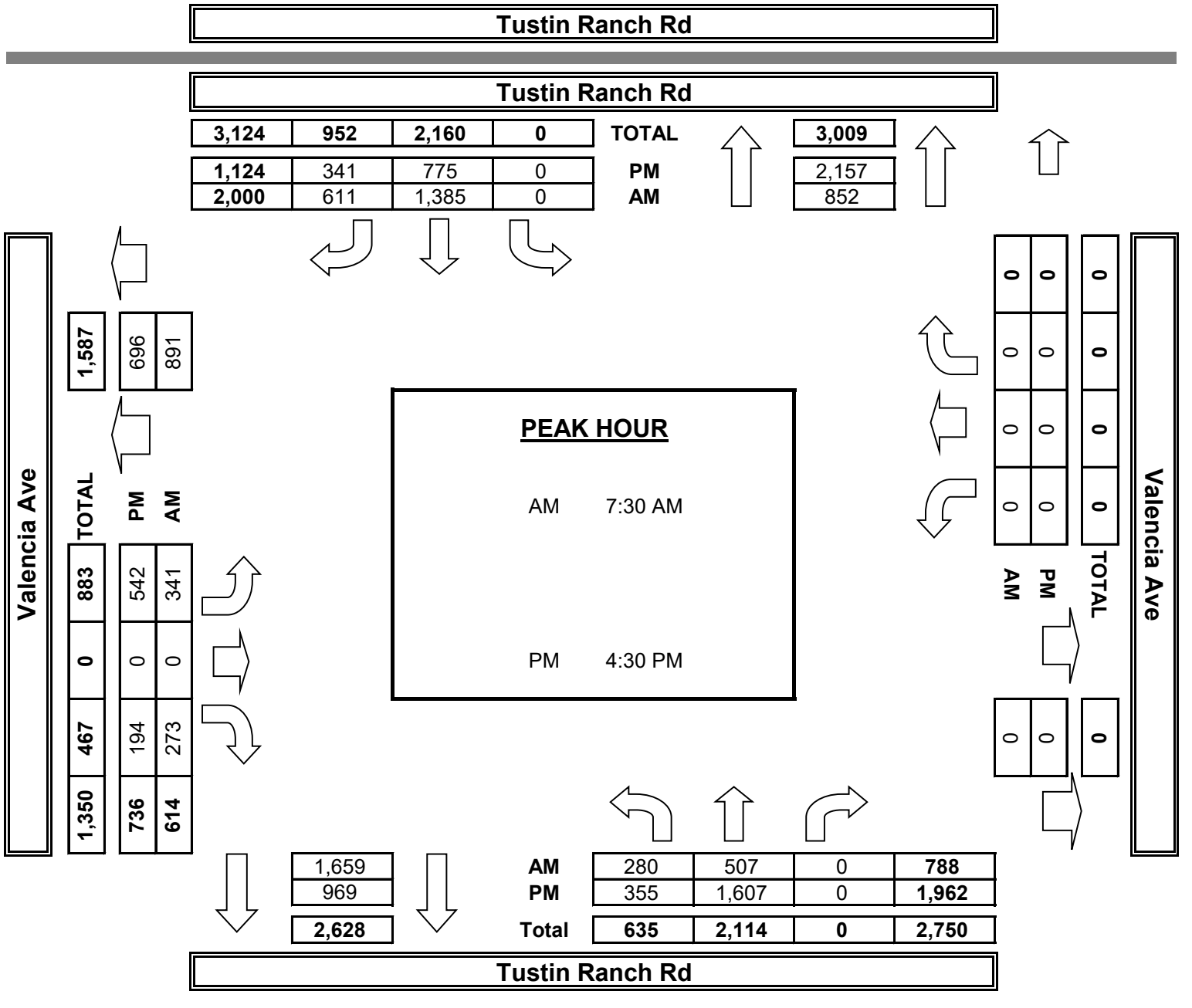
		PEDESTRIAN CROSSINGS				
		N LEG	S LEG	E LEG	W LEG	TOTAL
AM	7:00 AM	0	0	0	0	0
	7:15 AM	0	1	0	0	1
	7:30 AM	0	0	0	0	0
	7:45 AM	0	1	1	0	2
	8:00 AM	0	0	0	1	1
	8:15 AM	0	0	0	0	0
	8:30 AM	1	0	0	0	1
	8:45 AM	2	0	0	1	3
	TOTAL	3	2	1	2	8
	BEGIN PEAK HR	0	1	1	1	3
PM	4:00 PM	0	0	0	1	1
	4:15 PM	0	1	0	1	2
	4:30 PM	0	2	0	3	5
	4:45 PM	0	0	0	0	0
	5:00 PM	1	0	0	0	1
	5:15 PM	0	0	0	0	0
	5:30 PM	1	0	0	0	1
	5:45 PM	0	0	0	0	0
	TOTAL	2	3	0	5	10

		BICYCLE & SCOOTER CROSSINGS				
		NL	SL	EL	WL	TOTAL
AM	7:00 AM	0	1	3	3	7
	7:15 AM	0	1	0	1	2
	7:30 AM	0	1	0	1	2
	7:45 AM	2	3	5	1	11
	8:00 AM	0	2	0	2	4
	8:15 AM	0	3	3	3	9
	8:30 AM	0	2	0	1	3
	8:45 AM	1	0	0	1	2
	TOTAL	3	13	11	13	40
	BEGIN PEAK HR					
PM	4:00 PM	0	0	1	1	2
	4:15 PM	0	0	0	1	1
	4:30 PM	0	1	1	0	2
	4:45 PM	0	0	0	1	1
	5:00 PM	0	0	1	0	1
	5:15 PM	2	0	0	8	10
	5:30 PM	0	2	3	0	5
	5:45 PM	0	0	0	1	1
	TOTAL	2	3	6	12	23

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

T112224

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, May 15, 25

LOCATION: Tustin
NORTH & SOUTH: Kensington Park Dr
EAST & WEST: Edinger Ave

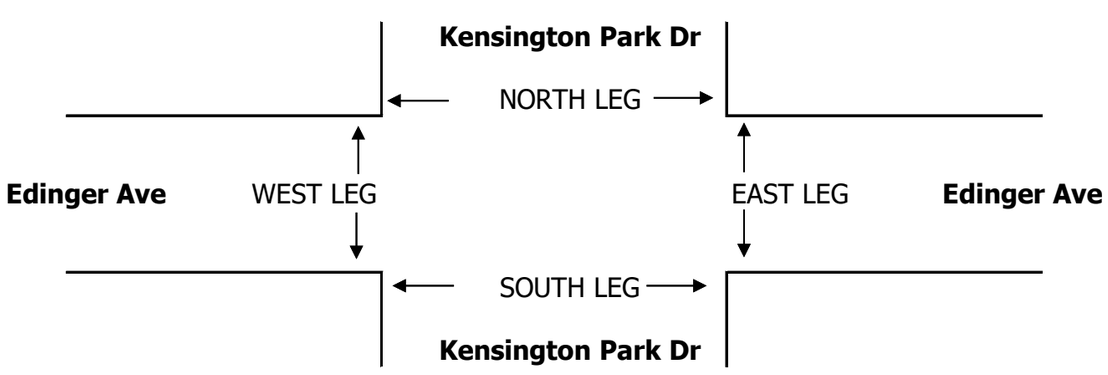
PROJECT #: SC5406
LOCATION #: 3
CONTROL: SIGNAL

NOTES:

AM
PM
MD
OTHER
OTHER

N ▲ S ▼ W ◄ E ►

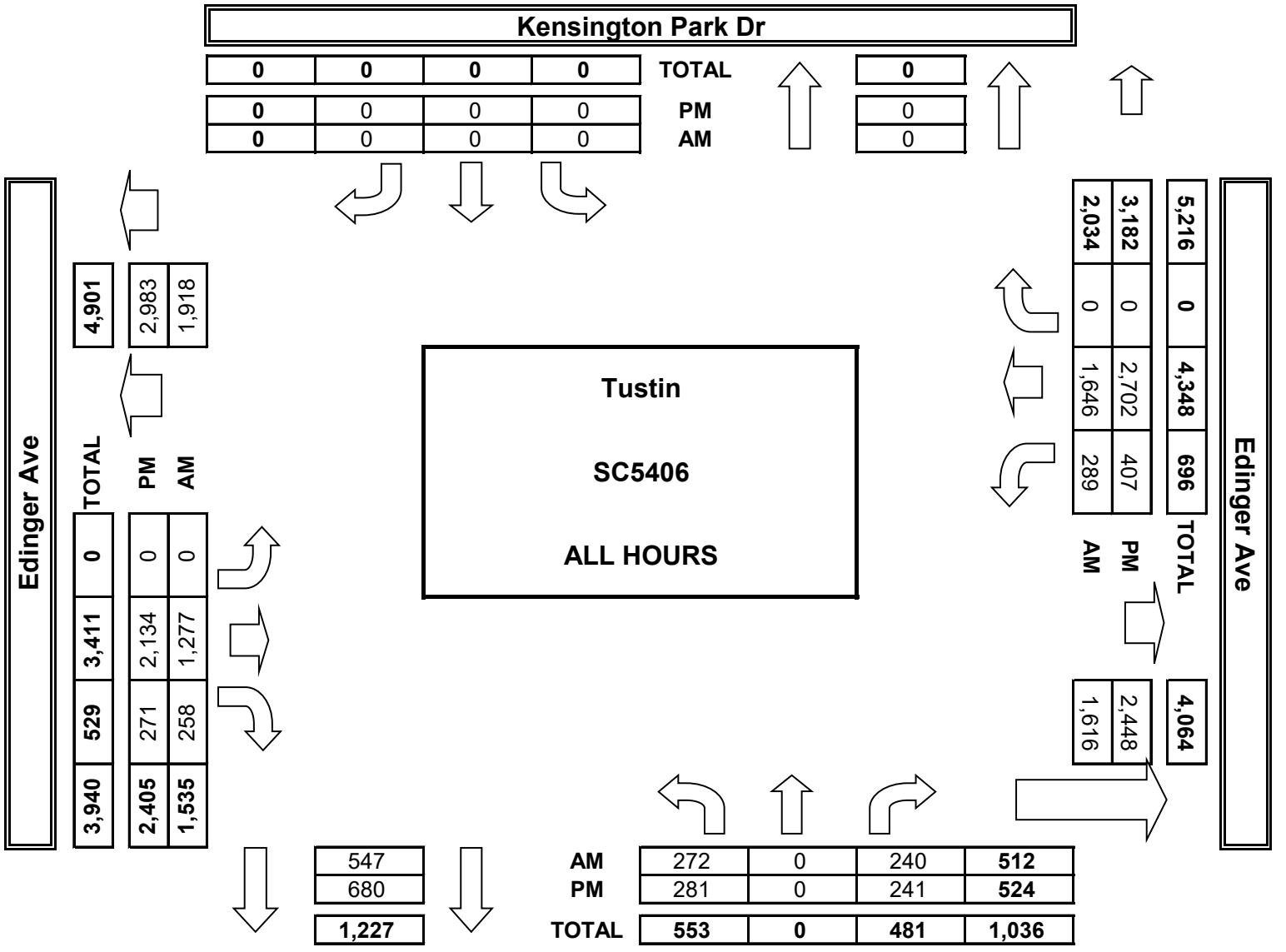
	NORTHBOUND (NE) Kensington Park Dr			SOUTHBOUND Kensington Park Dr			EASTBOUND (SE) Edinger Ave			WESTBOUND (NW) Edinger Ave				U-TURNS				
LANES:	NL 2	NT X	NR 1	SL X	ST X	SR X	EL X	ET 3	ER 1	WL 2	WT 3	WR X	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
7:00 AM	18	0	15	0	0	0	0	112	22	15	93	0	275	0	0	0	4	4
7:15 AM	32	0	21	0	0	0	0	140	28	34	171	0	426	0	0	0	4	4
7:30 AM	36	0	46	0	0	0	0	168	25	31	213	0	519	0	0	0	9	9
7:45 AM	33	0	30	0	0	0	0	188	37	32	234	0	554	0	0	0	20	20
8:00 AM	32	0	32	0	0	0	0	179	38	33	248	0	562	0	0	0	17	17
8:15 AM	59	0	47	0	0	0	0	164	54	51	248	0	623	0	0	0	9	9
8:30 AM	37	0	32	0	0	0	0	162	28	52	213	0	524	0	0	0	19	19
8:45 AM	25	0	17	0	0	0	0	164	26	41	226	0	499	0	0	0	17	17
AM VOLUMES	272	0	240	0	0	0	0	1,277	258	289	1,646	0	4,081	0	0	0	99	99
AM APPROACH %	53%	0%	47%	0%	0%	0%	0%	83%	17%	14%	81%	0%						
AM APP/DEPART	512	/	0	0	/	547	1,535	/	1,616	2,034	/	1,918	0					
AM BEGIN PEAK HR	7:45 AM																	
AM VOLUMES	161	0	141	0	0	0	0	693	157	168	943	0	2,328	0	0	0	65	
AM APPROACH %	53%	0%	47%	0%	0%	0%	0%	82%	18%	14%	80%	0%						
AM PEAK HR FACTOR	0.712			0.000			0.944			0.955			0.921					
AM APP/DEPART	302	/	0	0	/	325	850	/	899	1,176	/	1,104	0					
4:00 PM	49	0	22	0	0	0	0	164	36	37	356	0	664	2	0	0	16	18
4:15 PM	42	0	36	0	0	0	0	164	32	57	336	0	667	0	0	0	10	10
4:30 PM	43	0	26	0	0	0	0	186	40	77	323	0	695	0	0	0	14	14
4:45 PM	33	0	25	0	0	0	0	226	22	46	347	0	699	0	0	0	12	12
5:00 PM	40	0	42	0	0	0	0	405	37	27	352	0	903	0	0	0	3	3
5:15 PM	25	0	27	0	0	0	0	402	26	57	341	0	878	0	0	0	11	11
5:30 PM	24	0	31	0	0	0	0	352	45	51	331	0	834	0	0	0	0	0
5:45 PM	25	0	32	0	0	0	0	235	33	55	316	0	696	0	0	0	7	7
PM VOLUMES	281	0	241	0	0	0	0	2,134	271	407	2,702	0	6,111	2	0	0	73	75
PM APPROACH %	54%	0%	46%	0%	0%	0%	0%	89%	11%	13%	85%	0%						
PM APP/DEPART	524	/	0	0	/	680	2,405	/	2,448	3,182	/	2,983	0					
PM BEGIN PEAK HR	4:45 PM																	
PM VOLUMES	122	0	125	0	0	0	0	1,385	130	181	1,371	0	3,340	0	0	0	26	
PM APPROACH %	49%	0%	51%	0%	0%	0%	0%	91%	9%	11%	87%	0%						
PM PEAK HR FACTOR	0.753			0.000			0.857			0.965			0.922					
PM APP/DEPART	247	/	0	0	/	311	1,515	/	1,536	1,578	/	1,493	0					

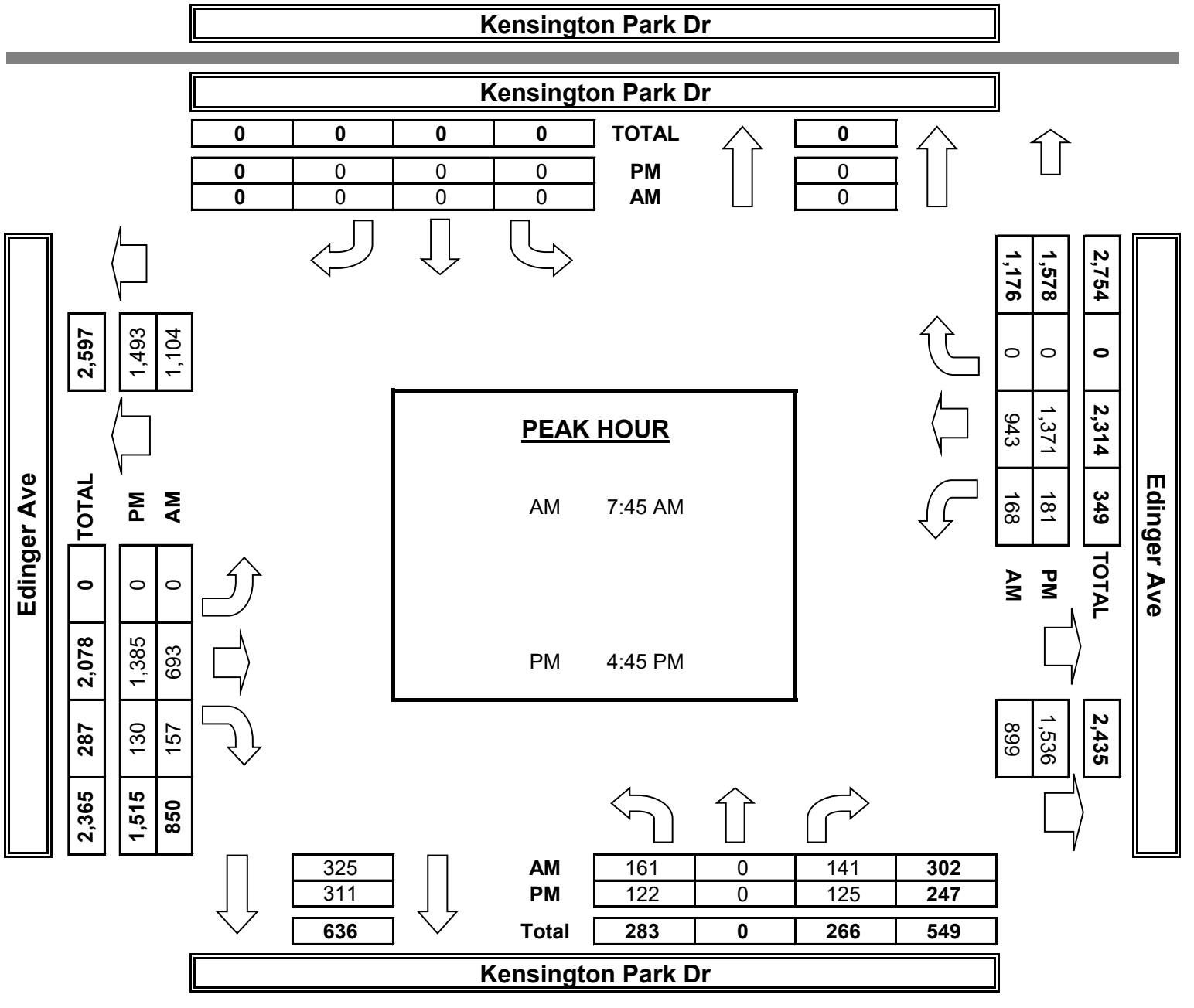


		ALL PED + BIKE & SCOOTER					PEDESTRIAN CROSSINGS					BICYCLE & SCOOTER CROSSINGS				
		N LEG	S LEG	E LEG	W LEG	TOTAL	N LEG	S LEG	E LEG	W LEG	TOTAL	NL	SL	EL	WL	TOTAL
AM	7:00 AM	2	0	0	0	2	0	0	0	0	0	2	0	0	0	2
	7:15 AM	1	5	0	0	6	0	1	0	0	1	1	4	0	0	5
	7:30 AM	2	5	0	0	7	0	1	0	0	1	2	4	0	0	6
	7:45 AM	2	2	2	0	6	0	0	0	0	0	2	2	2	0	6
	8:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	8:15 AM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2
	8:30 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	8:45 AM	1	1	0	0	2	0	0	0	0	0	1	1	0	0	2
	TOTAL	8	17	2	0	27	0	2	0	0	2	8	15	2	0	25
	BEGIN PEAK HR	7:45 AM					0	0	0	0	0					
PM	4:00 PM	2	0	1	0	3	0	0	1	0	1	2	0	0	0	2
	4:15 PM	2	3	0	0	5	0	1	0	0	1	2	2	0	0	4
	4:30 PM	2	3	2	0	7	0	0	2	0	2	2	3	0	0	5
	4:45 PM	2	2	0	0	4	0	1	0	0	1	2	1	0	0	3
	5:00 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2
	5:15 PM	2	0	2	0	4	0	0	1	0	1	2	0	1	0	3
	5:30 PM	1	3	0	0	4	0	0	0	0	0	1	3	0	0	4
	5:45 PM	1	3	0	0	4	0	2	0	0	2	1	1	0	0	2
	TOTAL	12	16	5	0	33	0	4	4	0	8	12	12	1	0	25
	BEGIN PEAK HR	4:45 PM					0	1	1	0	2					

AimTD LLC

TURNING MOVEMENT COUNTS





Thursday, May 15, 2025 | CITY: Tustin | PROJECT: SC5406

ADT1 Valencia Ave between Legacy Rd and Columbus Square.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB			PM Period	EB		WB		
0:00	5		3			12:00	81		81		
0:15	1		5			12:15	81		80		
0:30	0		4			12:30	70		98		
0:45	0	6	2	14	20	12:45	72	304	92	351	655
1:00	1		0			13:00	66		96		
1:15	0		1			13:15	70		68		
1:30	1		1			13:30	58		86		
1:45	0	2	0	2	4	13:45	66	260	103	353	613
2:00	0		0			14:00	51		111		
2:15	1		0			14:15	84		106		
2:30	2		1			14:30	152		82		
2:45	1	4	1	2	6	14:45	85	372	75	374	746
3:00	1		0			15:00	100		87		
3:15	0		1			15:15	125		131		
3:30	0		0			15:30	92		122		
3:45	1	2	0	1	3	15:45	101	418	99	439	857
4:00	3		2			16:00	112		104		
4:15	0		1			16:15	127		105		
4:30	3		6			16:30	131		126		
4:45	9	15	9	18	33	16:45	122	492	118	453	945
5:00	3		7			17:00	155		141		
5:15	8		11			17:15	130		200		
5:30	9		22			17:30	137		138		
5:45	15	35	21	61	96	17:45	119	541	145	624	1165
6:00	20		35			18:00	123		128		
6:15	22		36			18:15	116		124		
6:30	23		34			18:30	138		87		
6:45	35	100	46	151	251	18:45	103	480	71	410	890
7:00	39		54			19:00	52		77		
7:15	54		101			19:15	48		54		
7:30	58		138			19:30	46		69		
7:45	121	272	200	493	765	19:45	44	190	57	257	447
8:00	122		125			20:00	43		49		
8:15	91		129			20:15	35		41		
8:30	76		138			20:30	23		45		
8:45	63	352	153	545	897	20:45	31	132	43	178	310
9:00	64		110			21:00	41		35		
9:15	46		74			21:15	24		26		
9:30	38		79			21:30	21		31		
9:45	44	192	66	329	521	21:45	25	111	27	119	230
10:00	72		58			22:00	22		24		
10:15	55		50			22:15	11		17		
10:30	46		62			22:30	6		13		
10:45	42	215	72	242	457	22:45	4	43	10	64	107
11:00	66		99			23:00	5		7		
11:15	101		79			23:15	2		7		
11:30	84		78			23:30	4		13		
11:45	68	319	66	322	641	23:45	5	16	4	31	47
Total Vol.		1514		2180	**3694**			3359		3653	**7012**

Daily Totals	EB	WB	**Combined**
	4873	5833	**10706**

	AM			**PM**		
Split %	41.0%	59.0%	**34.5%**	47.9%	52.1%	**65.5%**
Peak Hour	7:45	7:30	**7:45**	16:45	17:00	**17:00**
Volume	410	592	**1002**	544	624	**1165**
P.H.F.	0.84	0.74	**0.78**	0.88	0.78	**0.88**

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Thursday, May 15, 2025 | CITY: Tustin | PROJECT: SC5406

ADT2 Valencia Ave between Legacy Rd and Tustin Ranch Rd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB			PM Period	EB		WB		
0:00	4		3			12:00	110		72		
0:15	1		4			12:15	90		64		
0:30	1		3			12:30	86		74		
0:45	0	6	2	12	18	12:45	101	387	88	298	685
1:00	1		0			13:00	76		72		
1:15	0		1			13:15	78		63		
1:30	0		1			13:30	93		84		
1:45	1	2	0	2	4	13:45	116	363	105	324	687
2:00	1		1			14:00	83		93		
2:15	1		0			14:15	93		91		
2:30	2		1			14:30	163		111		
2:45	0	4	0	2	6	14:45	92	431	104	399	830
3:00	1		1			15:00	191		138		
3:15	0		2			15:15	140		118		
3:30	2		0			15:30	159		97		
3:45	1	4	0	3	7	15:45	134	624	73	426	1050
4:00	3		3			16:00	166		81		
4:15	0		2			16:15	145		81		
4:30	2		6			16:30	166		99		
4:45	13	18	12	23	41	16:45	162	639	97	358	997
5:00	7		6			17:00	167		124		
5:15	11		10			17:15	182		180		
5:30	11		24			17:30	156		120		
5:45	19	48	34	74	122	17:45	143	648	114	538	1186
6:00	21		27			18:00	137		116		
6:15	29		33			18:15	141		115		
6:30	31		37			18:30	158		79		
6:45	36	117	48	145	262	18:45	118	554	69	379	933
7:00	48		66			19:00	78		71		
7:15	85		157			19:15	67		44		
7:30	99		145			19:30	65		57		
7:45	149	381	235	603	984	19:45	56	266	57	229	495
8:00	147		163			20:00	49		43		
8:15	151		191			20:15	55		36		
8:30	115		119			20:30	38		47		
8:45	82	495	137	610	1105	20:45	43	185	42	168	353
9:00	81		104			21:00	42		31		
9:15	68		73			21:15	39		28		
9:30	69		79			21:30	22		24		
9:45	82	300	73	329	629	21:45	24	127	25	108	235
10:00	80		60			22:00	30		22		
10:15	72		50			22:15	19		20		
10:30	74		60			22:30	6		16		
10:45	66	292	70	240	532	22:45	10	65	15	73	138
11:00	76		103			23:00	7		11		
11:15	121		69			23:15	5		13		
11:30	102		74			23:30	4		11		
11:45	87	386	70	316	702	23:45	4	20	1	36	56
Total Vol.		2053		2359	**4412**			4309		3336	**7645**

Daily Totals	EB	WB	**Combined**
	6362	5695	**12057**

	AM			**PM**		
Split %	46.5%	53.5%	**36.6%**	56.4%	43.6%	**63.4%**
Peak Hour	7:45	7:30	**7:30**	16:30	17:00	**16:45**
Volume	562	734	**1280**	677	538	**1188**
P.H.F.	0.93	0.78	**0.83**	0.93	0.75	**0.82**

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Thursday, May 15, 2025 | CITY: Tustin | PROJECT: SC5406

ADT3 Kensington Park Drive between Valencia Ave and Georgia St

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB			PM Period	NB		SB		
0:00	3		2			12:00	73		122		
0:15	2		3			12:15	65		87		
0:30	0		2			12:30	65		104		
0:45	0	5	0	7	12	12:45	60	263	84	397	660
1:00	0		0			13:00	37		85		
1:15	0		0			13:15	57		67		
1:30	1		0			13:30	38		85		
1:45	0	1	1	1	2	13:45	64	196	79	316	512
2:00	1		1			14:00	41		67		
2:15	0		0			14:15	52		94		
2:30	0		0			14:30	51		80		
2:45	1	2	1	2	4	14:45	46	190	72	313	503
3:00	1		0			15:00	116		114		
3:15	1		0			15:15	76		96		
3:30	0		2			15:30	109		96		
3:45	0	2	0	2	4	15:45	57	358	100	406	764
4:00	1		0			16:00	60		108		
4:15	1		0			16:15	40		91		
4:30	2		3			16:30	56		100		
4:45	5	9	4	7	16	16:45	48	204	109	408	612
5:00	1		6			17:00	63		98		
5:15	2		6			17:15	52		112		
5:30	8		10			17:30	56		86		
5:45	16	27	13	35	62	17:45	45	216	101	397	613
6:00	6		15			18:00	44		82		
6:15	12		21			18:15	51		84		
6:30	11		19			18:30	47		79		
6:45	17	46	28	83	129	18:45	43	185	57	302	487
7:00	16		32			19:00	27		54		
7:15	34		87			19:15	22		51		
7:30	51		78			19:30	27		56		
7:45	50	151	75	272	423	19:45	31	107	40	201	308
8:00	65		87			20:00	24		39		
8:15	84		103			20:15	26		42		
8:30	55		77			20:30	13		25		
8:45	33	237	70	337	574	20:45	15	78	28	134	212
9:00	36		58			21:00	19		24		
9:15	32		59			21:15	18		28		
9:30	29		50			21:30	11		18		
9:45	26	123	61	228	351	21:45	12	60	17	87	147
10:00	41		47			22:00	11		17		
10:15	42		47			22:15	7		13		
10:30	38		70			22:30	10		6		
10:45	38	159	67	231	390	22:45	8	36	10	46	82
11:00	63		66			23:00	6		3		
11:15	55		84			23:15	4		4		
11:30	56		76			23:30	2		2		
11:45	59	233	77	303	536	23:45	2	14	4	13	27
Total Vol.		995		1508	**2503**			1907		3020	**4927**

Daily Totals

NB	SB	**Combined**
2902	4528	**7430**

	AM			**PM**		
Split %	39.8%	60.2%	**33.7%**	38.7%	61.3%	**66.3%**
Peak Hour	11:45	11:45	**11:45**	15:00	16:30	**15:00**
Volume	262	390	**652**	358	419	**764**
P.H.F.	0.90	0.80	**0.84**	0.77	0.94	**0.83**

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Appendix B— ITE Trip Generation Outputs

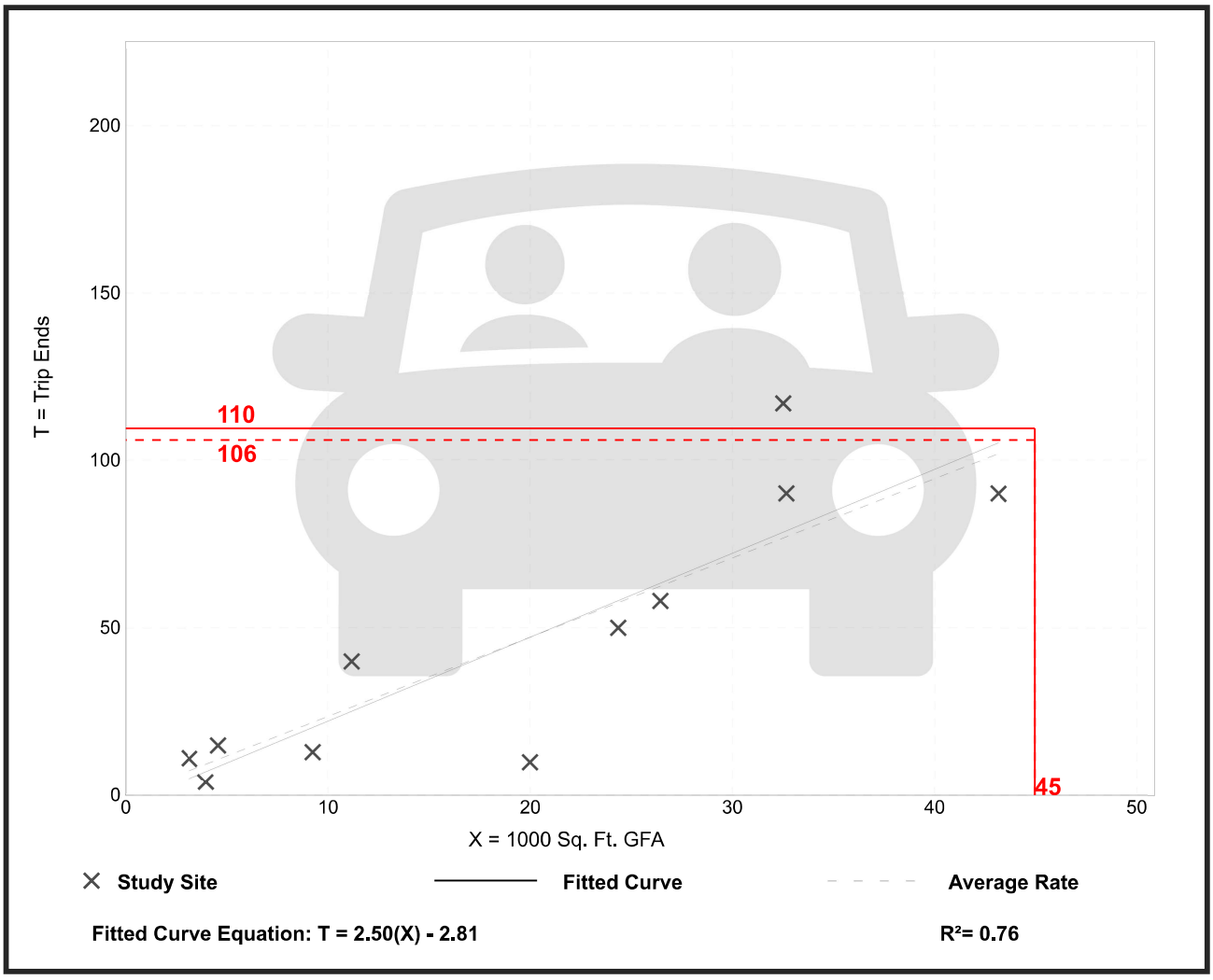
School District Office
(528)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 11
Avg. 1000 Sq. Ft. GFA: 19
Directional Distribution: 76% entering, 24% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
2.36	0.50 - 3.60	0.94

Data Plot and Equation



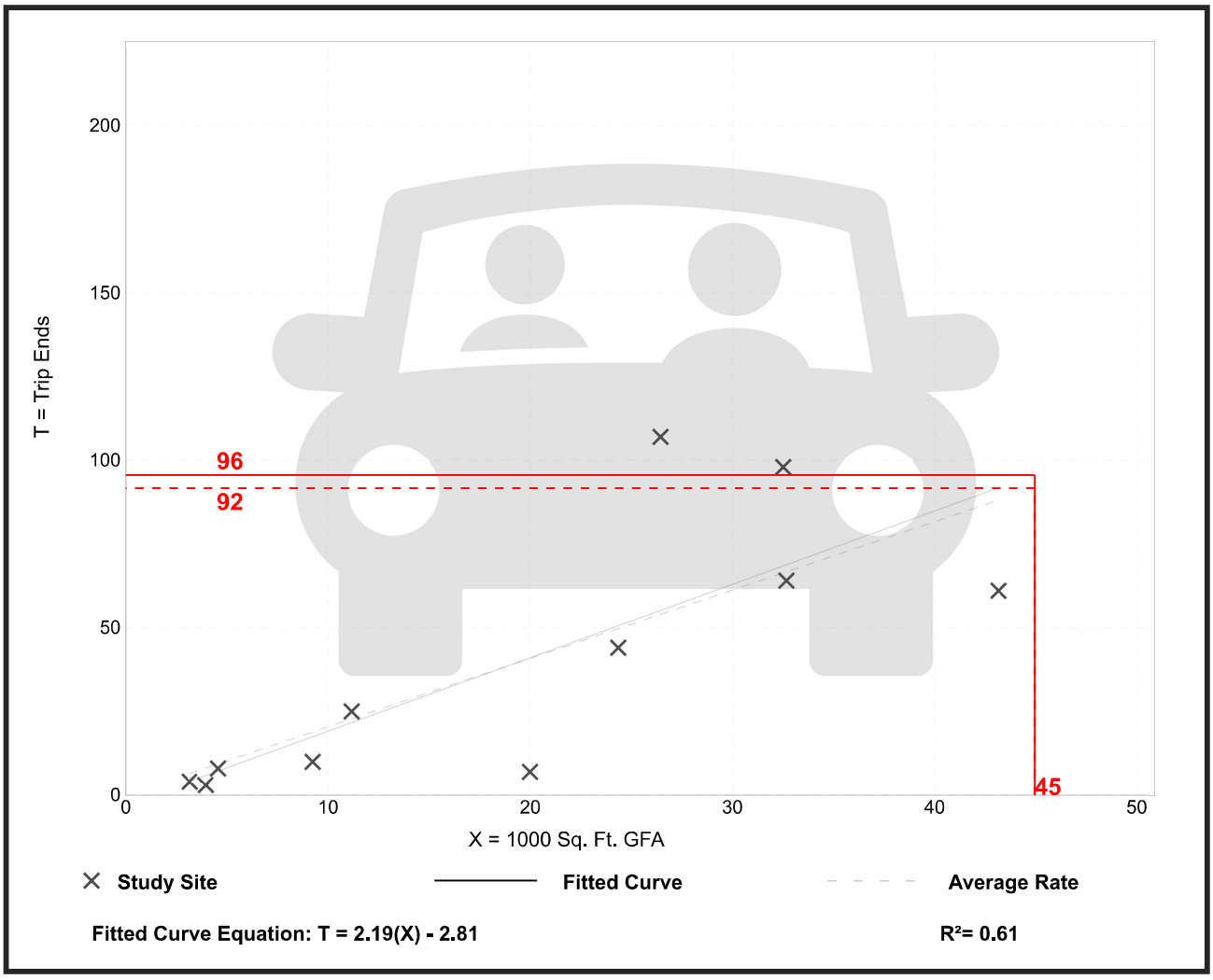
School District Office
(528)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 11
Avg. 1000 Sq. Ft. GFA: 19
Directional Distribution: 17% entering, 83% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
2.04	0.35 - 4.05	1.10

Data Plot and Equation



School District Office
(528)

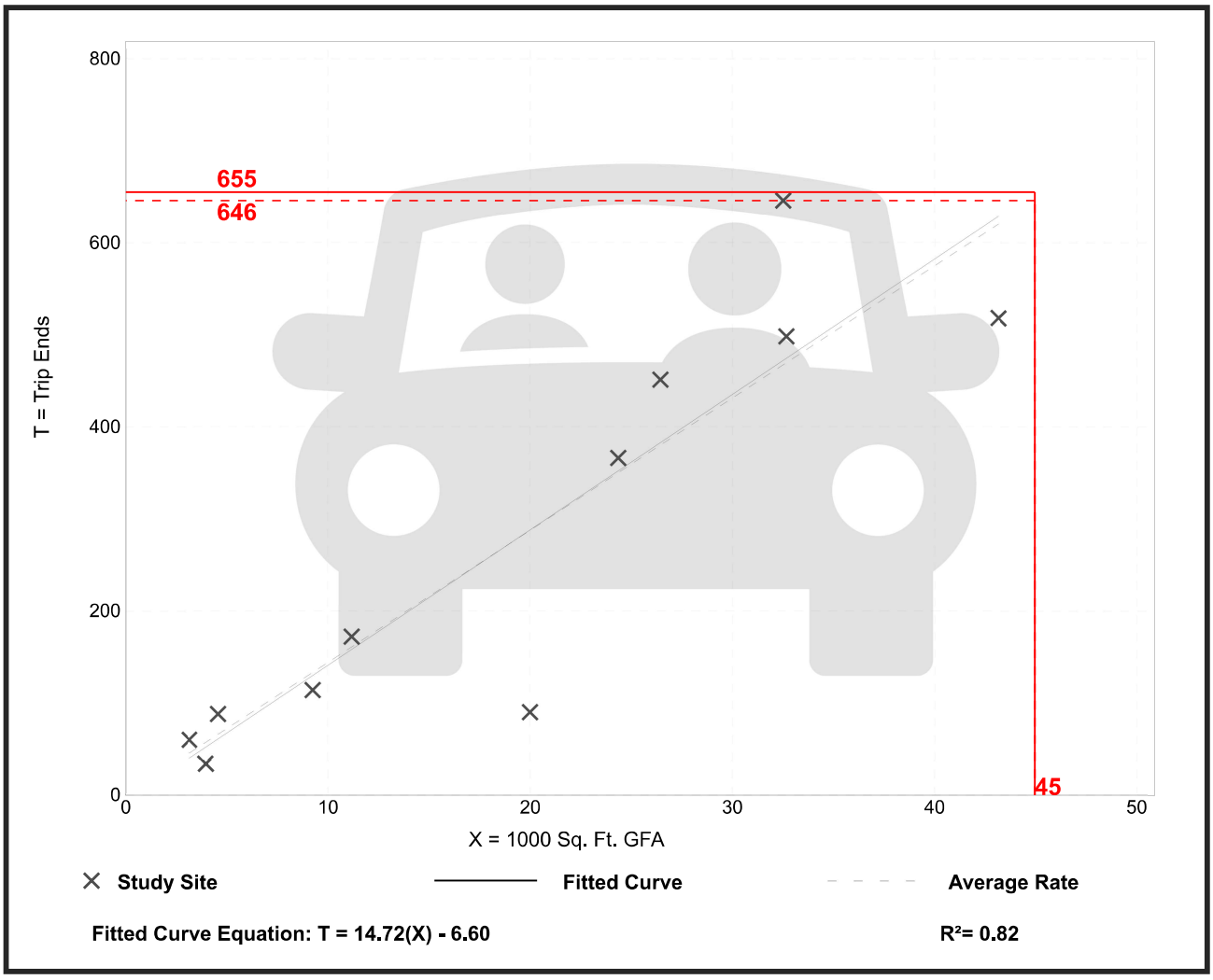
Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 11
Avg. 1000 Sq. Ft. GFA: 19
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
14.37	4.50 - 19.87	4.42

Data Plot and Equation



Appendix C—Synchro Reports [2025 Existing – AM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	59	250	84	253	402	75	92	116	175	117	123	103
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	59	334	0	253	402	75	92	291	0	117	123	103
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	0.96	0.85	0.95	1.00	0.85	0.95	0.91	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3115	0	3136	3237	1445	1615	1547	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	2.3	12.9	0.0	9.7	14.9	6.2	6.8	22.6	0.0	4.5	4.6	8.6
Adj Reference Time (s)	9.5	17.4	0.0	14.2	19.4	10.7	11.3	27.1	0.0	9.5	9.5	13.1
Permitted Option												
Adj Saturation A (vph)	105	1557		105	1618		108	1547		105	1618	
Reference Time A (s)	33.9	12.9		145.2	14.9		102.5	22.6		67.1	4.6	
Adj Saturation B (vph	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time B (s)	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time (s)		33.9			145.2			102.5			67.1	
Adj Reference Time (s)		38.4			149.7			107.0			71.6	
Split Option												
Ref Time Combined (s)	2.3	12.9		9.7	14.9		6.8	22.6		4.5	4.6	
Ref Time Seperate (s)	2.3	9.6		9.7	14.9		6.8	9.0		4.5	4.6	
Reference Time (s)	12.9	12.9		14.9	14.9		22.6	22.6		4.6	4.6	
Adj Reference Time (s)	17.4	17.4		19.4	19.4		27.1	27.1		9.5	9.5	

Summary	NW SE	NE SW	Combined
Protected Option (s)	31.5	36.6	
Permitted Option (s)	149.7	107.0	
Split Option (s)	36.8	36.6	
Minimum (s)	31.5	36.6	68.1

Right Turns	NWR	SWR
Adj Reference Time (s)	10.7	13.1
Cross Thru Ref Time (s)	27.1	19.4
Oncoming Left Ref Time (s)	9.5	11.3
Combined (s)	47.3	43.8

Intersection Summary			
Intersection Capacity Utilization	56.8%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.

Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	341	273	280	507	1385	611
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	341	273	280	507	1385	611
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		22.7	10.7	13.1	35.9	50.7
Adj Reference Time (s)		27.2	15.2	17.6	40.4	55.2
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	195.7		160.7	13.1	35.9	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				160.7	35.9	
Adj Reference Time (s)				165.2	40.4	
Split Option						
Ref Time Combined (s)	13.0		10.7	13.1	35.9	
Ref Time Seperate (s)	13.0		10.7	13.1	35.9	
Reference Time (s)	13.0		13.1	13.1	35.9	
Adj Reference Time (s)	17.5		17.6	17.6	40.4	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	55.6	
Permitted Option (s)	Err	165.2	
Split Option (s)	17.5	58.0	
Minimum (s)	17.5	55.6	73.2

Right Turns	SER	SWR
Adj Reference Time (s)	27.2	55.2
Cross Thru Ref Time (s)	40.4	0.0
Oncoming Left Ref Time (s)	0.0	15.2
Combined (s)	67.6	70.5

Intersection Summary			
Intersection Capacity Utilization	61.0%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.

Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	693	157	168	943	161	141
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	693	157	168	943	161	141
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	18.0	13.0	6.4	24.4		11.7
Adj Reference Time (s)	22.5	17.5	10.9	28.9		16.2
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	18.0		96.4	24.4	92.4	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	18.0			96.4		
Adj Reference Time (s)	22.5			100.9		
Split Option						
Ref Time Combined (s)	18.0		6.4	24.4	6.2	
Ref Time Seperate (s)	18.0		6.4	24.4	6.2	
Reference Time (s)	18.0		24.4	24.4	6.2	
Adj Reference Time (s)	22.5		28.9	28.9	10.7	

Summary	NW SE	NE	Combined
Protected Option (s)	33.4	NA	
Permitted Option (s)	100.9	Err	
Split Option (s)	51.4	10.7	
Minimum (s)	33.4	10.7	44.0

Right Turns	SER	NER
Adj Reference Time (s)	17.5	16.2
Cross Thru Ref Time (s)	0.0	22.5
Oncoming Left Ref Time (s)	10.9	0.0
Combined (s)	28.5	38.7

Intersection Summary			
Intersection Capacity Utilization	36.7%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix D—Synchro Reports [2025 Existing – PM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	120	423	4	4	396	94	7	5	17	231	3	185
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	120	427	0	4	396	94	7	22	0	231	3	185
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	1.00	0.85	0.95	1.00	0.85	0.95	0.88	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3232	0	3136	3237	1445	1615	1503	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	4.6	15.9	0.0	0.2	14.7	7.8	0.5	1.8	0.0	8.8	0.1	15.4
Adj Reference Time (s)	9.5	20.4	0.0	9.5	19.2	12.3	9.5	9.5	0.0	13.3	9.5	19.9
Permitted Option												
Adj Saturation A (vph)	105	1616		105	1618		108	1503		105	1618	
Reference Time A (s)	68.9	15.9		2.3	14.7		7.8	1.8		132.6	0.1	
Adj Saturation B (vph	NA	NA		NA	NA		0	1503		0	3237	
Reference Time B (s)	NA	NA		NA	NA		8.5	1.8		16.8	0.1	
Reference Time (s)		68.9			14.7			7.8			16.8	
Adj Reference Time (s)		73.4			19.2			12.3			21.3	
Split Option												
Ref Time Combined (s)	4.6	15.9		0.2	14.7		0.5	1.8		8.8	0.1	
Ref Time Seperate (s)	4.6	15.7		0.2	14.7		0.5	0.4		8.8	0.1	
Reference Time (s)	15.9	15.9		14.7	14.7		1.8	1.8		8.8	8.8	
Adj Reference Time (s)	20.4	20.4		19.2	19.2		9.5	9.5		13.3	13.3	

Summary	NW SE	NE SW	Combined
Protected Option (s)	29.9	22.8	
Permitted Option (s)	73.4	21.3	
Split Option (s)	39.5	22.8	
Minimum (s)	29.9	21.3	51.2

Right Turns	NWR	SWR
Adj Reference Time (s)	12.3	19.9
Cross Thru Ref Time (s)	9.5	19.2
Oncoming Left Ref Time (s)	9.5	9.5
Combined (s)	31.3	48.5

Intersection Summary			
Intersection Capacity Utilization	42.7%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	542	194	355	1607	775	341
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	542	194	355	1607	775	341
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		16.1	13.6	41.6	20.1	28.3
Adj Reference Time (s)		20.6	18.1	46.1	24.6	32.8
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	311.1		203.7	41.6	20.1	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				203.7	20.1	
Adj Reference Time (s)				208.2	24.6	
Split Option						
Ref Time Combined (s)	20.7		13.6	41.6	20.1	
Ref Time Seperate (s)	20.7		13.6	41.6	20.1	
Reference Time (s)	20.7		41.6	41.6	20.1	
Adj Reference Time (s)	25.2		46.1	46.1	24.6	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	46.1	
Permitted Option (s)	Err	208.2	
Split Option (s)	25.2	70.7	
Minimum (s)	25.2	46.1	71.4

Right Turns	SER	SWR
Adj Reference Time (s)	20.6	32.8
Cross Thru Ref Time (s)	24.6	0.0
Oncoming Left Ref Time (s)	0.0	18.1
Combined (s)	45.2	50.9

Intersection Summary			
Intersection Capacity Utilization	59.5%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	1385	130	181	1371	122	125
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	1385	130	181	1371	122	125
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	35.9	10.8	6.9	35.5		10.4
Adj Reference Time (s)	40.4	15.3	11.4	40.0		14.9
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	35.9		103.9	35.5	70.0	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	35.9			103.9		
Adj Reference Time (s)	40.4			108.4		
Split Option						
Ref Time Combined (s)	35.9		6.9	35.5	4.7	
Ref Time Seperate (s)	35.9		6.9	35.5	4.7	
Reference Time (s)	35.9		35.5	35.5	4.7	
Adj Reference Time (s)	40.4		40.0	40.0	9.5	

Summary	NW SE	NE	Combined
Protected Option (s)	51.8	NA	
Permitted Option (s)	108.4	Err	
Split Option (s)	80.4	9.5	
Minimum (s)	51.8	9.5	61.3

Right Turns	SER	NER
Adj Reference Time (s)	15.3	14.9
Cross Thru Ref Time (s)	0.0	40.4
Oncoming Left Ref Time (s)	11.4	0.0
Combined (s)	26.7	55.3

Intersection Summary			
Intersection Capacity Utilization	51.1%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix E—Synchro Reports [2028 No Project – AM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	61	258	87	261	414	77	95	120	180	121	127	106
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	61	345	0	261	414	77	95	300	0	121	127	106
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	0.96	0.85	0.95	1.00	0.85	0.95	0.91	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3114	0	3136	3237	1445	1615	1547	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	2.3	13.3	0.0	10.0	15.3	6.4	7.1	23.3	0.0	4.6	4.7	8.8
Adj Reference Time (s)	9.5	17.8	0.0	14.5	19.8	10.9	11.6	27.8	0.0	9.5	9.5	13.3
Permitted Option												
Adj Saturation A (vph)	105	1557		105	1618		108	1547		105	1618	
Reference Time A (s)	35.0	13.3		149.8	15.3		105.9	23.3		69.4	4.7	
Adj Saturation B (vph	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time B (s)	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time (s)		35.0			149.8			105.9			69.4	
Adj Reference Time (s)		39.5			154.3			110.4			73.9	
Split Option												
Ref Time Combined (s)	2.3	13.3		10.0	15.3		7.1	23.3		4.6	4.7	
Ref Time Seperate (s)	2.3	9.9		10.0	15.3		7.1	9.3		4.6	4.7	
Reference Time (s)	13.3	13.3		15.3	15.3		23.3	23.3		4.7	4.7	
Adj Reference Time (s)	17.8	17.8		19.8	19.8		27.8	27.8		9.5	9.5	

Summary	NW SE	NE SW	Combined
Protected Option (s)	32.3	37.3	
Permitted Option (s)	154.3	110.4	
Split Option (s)	37.6	37.3	
Minimum (s)	32.3	37.3	69.6

Right Turns	NWR	SWR
Adj Reference Time (s)	10.9	13.3
Cross Thru Ref Time (s)	27.8	19.8
Oncoming Left Ref Time (s)	9.5	11.6
Combined (s)	48.2	44.7

Intersection Summary			
Intersection Capacity Utilization	58.0%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	351	281	288	522	1427	630
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	351	281	288	522	1427	630
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		23.3	11.0	13.5	37.0	52.3
Adj Reference Time (s)		27.8	15.5	18.0	41.5	56.8
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	201.4		165.3	13.5	37.0	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				165.3	37.0	
Adj Reference Time (s)				169.8	41.5	
Split Option						
Ref Time Combined (s)	13.4		11.0	13.5	37.0	
Ref Time Seperate (s)	13.4		11.0	13.5	37.0	
Reference Time (s)	13.4		13.5	13.5	37.0	
Adj Reference Time (s)	17.9		18.0	18.0	41.5	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	57.0	
Permitted Option (s)	Err	169.8	
Split Option (s)	17.9	59.5	
Minimum (s)	17.9	57.0	74.9

Right Turns	SER	SWR
Adj Reference Time (s)	27.8	56.8
Cross Thru Ref Time (s)	41.5	0.0
Oncoming Left Ref Time (s)	0.0	15.5
Combined (s)	69.3	72.3

Intersection Summary			
Intersection Capacity Utilization	62.4%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	714	162	173	972	166	145
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	714	162	173	972	166	145
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	18.5	13.5	6.6	25.2		12.0
Adj Reference Time (s)	23.0	18.0	11.1	29.7		16.5
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	18.5		99.3	25.2	95.3	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	18.5			99.3		
Adj Reference Time (s)	23.0			103.8		
Split Option						
Ref Time Combined (s)	18.5		6.6	25.2	6.4	
Ref Time Seperate (s)	18.5		6.6	25.2	6.4	
Reference Time (s)	18.5		25.2	25.2	6.4	
Adj Reference Time (s)	23.0		29.7	29.7	10.9	

Summary	NW SE	NE	Combined
Protected Option (s)	34.1	NA	
Permitted Option (s)	103.8	Err	
Split Option (s)	52.7	10.9	
Minimum (s)	34.1	10.9	45.0

Right Turns	SER	NER
Adj Reference Time (s)	18.0	16.5
Cross Thru Ref Time (s)	0.0	23.0
Oncoming Left Ref Time (s)	11.1	0.0
Combined (s)	29.1	39.5

Intersection Summary			
Intersection Capacity Utilization	37.5%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix F—Synchro Reports [2028 No Project – PM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	124	436	4	4	408	97	7	5	18	238	3	191
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	124	440	0	4	408	97	7	23	0	238	3	191
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	1.00	0.85	0.95	1.00	0.85	0.95	0.88	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3232	0	3136	3237	1445	1615	1500	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	4.7	16.3	0.0	0.2	15.1	8.1	0.5	1.8	0.0	9.1	0.1	15.9
Adj Reference Time (s)	9.5	20.8	0.0	9.5	19.6	12.6	9.5	9.5	0.0	13.6	9.5	20.4
Permitted Option												
Adj Saturation A (vph)	105	1616		105	1618		108	1500		105	1618	
Reference Time A (s)	71.2	16.3		2.3	15.1		7.8	1.8		136.6	0.1	
Adj Saturation B (vph	NA	NA		NA	NA		0	1500		0	3237	
Reference Time B (s)	NA	NA		NA	NA		8.5	1.8		17.1	0.1	
Reference Time (s)		71.2			15.1			7.8			17.1	
Adj Reference Time (s)		75.7			19.6			12.3			21.6	
Split Option												
Ref Time Combined (s)	4.7	16.3		0.2	15.1		0.5	1.8		9.1	0.1	
Ref Time Seperate (s)	4.7	16.2		0.2	15.1		0.5	0.4		9.1	0.1	
Reference Time (s)	16.3	16.3		15.1	15.1		1.8	1.8		9.1	9.1	
Adj Reference Time (s)	20.8	20.8		19.6	19.6		9.5	9.5		13.6	13.6	

Summary	NW SE	NE SW	Combined
Protected Option (s)	30.3	23.1	
Permitted Option (s)	75.7	21.6	
Split Option (s)	40.5	23.1	
Minimum (s)	30.3	21.6	51.9

Right Turns	NWR	SWR
Adj Reference Time (s)	12.6	20.4
Cross Thru Ref Time (s)	9.5	19.6
Oncoming Left Ref Time (s)	9.5	9.5
Combined (s)	31.6	49.5

Intersection Summary			
Intersection Capacity Utilization	43.3%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	558	200	366	1656	798	351
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	558	200	366	1656	798	351
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		16.6	14.0	42.9	20.7	29.1
Adj Reference Time (s)		21.1	18.5	47.4	25.2	33.6
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	320.2		210.1	42.9	20.7	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				210.1	20.7	
Adj Reference Time (s)				214.6	25.2	
Split Option						
Ref Time Combined (s)	21.3		14.0	42.9	20.7	
Ref Time Seperate (s)	21.3		14.0	42.9	20.7	
Reference Time (s)	21.3		42.9	42.9	20.7	
Adj Reference Time (s)	25.8		47.4	47.4	25.2	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	47.4	
Permitted Option (s)	Err	214.6	
Split Option (s)	25.8	72.6	
Minimum (s)	25.8	47.4	73.3

Right Turns	SER	SWR
Adj Reference Time (s)	21.1	33.6
Cross Thru Ref Time (s)	25.2	0.0
Oncoming Left Ref Time (s)	0.0	18.5
Combined (s)	46.3	52.2

Intersection Summary			
Intersection Capacity Utilization	61.1%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	1427	134	186	1413	126	129
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	1427	134	186	1413	126	129
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	37.0	11.1	7.1	36.6		10.7
Adj Reference Time (s)	41.5	15.6	11.6	41.1		15.2
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	37.0		106.7	36.6	72.3	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	37.0			106.7		
Adj Reference Time (s)	41.5			111.2		
Split Option						
Ref Time Combined (s)	37.0		7.1	36.6	4.8	
Ref Time Seperate (s)	37.0		7.1	36.6	4.8	
Reference Time (s)	37.0		36.6	36.6	4.8	
Adj Reference Time (s)	41.5		41.1	41.1	9.5	

Summary	NW SE	NE	Combined
Protected Option (s)	53.1	NA	
Permitted Option (s)	111.2	Err	
Split Option (s)	82.6	9.5	
Minimum (s)	53.1	9.5	62.6

Right Turns	SER	NER
Adj Reference Time (s)	15.6	15.2
Cross Thru Ref Time (s)	0.0	41.5
Oncoming Left Ref Time (s)	11.6	0.0
Combined (s)	27.2	56.7

Intersection Summary			
Intersection Capacity Utilization	52.2%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix G—Synchro Reports [2025 With Project – AM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	59	250	99	298	402	75	98	124	186	117	145	103
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	59	349	0	298	402	75	98	310	0	117	145	103
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	0.96	0.85	0.95	1.00	0.85	0.95	0.91	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3099	0	3136	3237	1445	1615	1547	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	2.3	13.5	0.0	11.4	14.9	6.2	7.3	24.0	0.0	4.5	5.4	8.6
Adj Reference Time (s)	9.5	18.0	0.0	15.9	19.4	10.7	11.8	28.5	0.0	9.5	9.9	13.1
Permitted Option												
Adj Saturation A (vph)	105	1550		105	1618		108	1547		105	1618	
Reference Time A (s)	33.9	13.5		171.0	14.9		109.2	24.0		67.1	5.4	
Adj Saturation B (vph	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time B (s)	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time (s)		33.9			171.0			109.2			67.1	
Adj Reference Time (s)		38.4			175.5			113.7			71.6	
Split Option												
Ref Time Combined (s)	2.3	13.5		11.4	14.9		7.3	24.0		4.5	5.4	
Ref Time Seperate (s)	2.3	9.7		11.4	14.9		7.3	9.6		4.5	5.4	
Reference Time (s)	13.5	13.5		14.9	14.9		24.0	24.0		5.4	5.4	
Adj Reference Time (s)	18.0	18.0		19.4	19.4		28.5	28.5		9.9	9.9	

Summary	NW SE	NE SW	Combined
Protected Option (s)	33.9	38.0	
Permitted Option (s)	175.5	113.7	
Split Option (s)	37.4	38.4	
Minimum (s)	33.9	38.0	72.0

Right Turns	NWR	SWR
Adj Reference Time (s)	10.7	13.1
Cross Thru Ref Time (s)	28.5	19.4
Oncoming Left Ref Time (s)	9.5	11.8
Combined (s)	48.8	44.2

Intersection Summary			
Intersection Capacity Utilization	60.0%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.

Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	347	278	294	507	1385	642
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	347	278	294	507	1385	642
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		23.1	11.2	13.1	35.9	53.3
Adj Reference Time (s)		27.6	15.7	17.6	40.4	57.8
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	199.1		168.7	13.1	35.9	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				168.7	35.9	
Adj Reference Time (s)				173.2	40.4	
Split Option						
Ref Time Combined (s)	13.3		11.2	13.1	35.9	
Ref Time Seperate (s)	13.3		11.2	13.1	35.9	
Reference Time (s)	13.3		13.1	13.1	35.9	
Adj Reference Time (s)	17.8		17.6	17.6	40.4	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	56.1	
Permitted Option (s)	Err	173.2	
Split Option (s)	17.8	58.0	
Minimum (s)	17.8	56.1	73.9

Right Turns	SER	SWR
Adj Reference Time (s)	27.6	57.8
Cross Thru Ref Time (s)	40.4	0.0
Oncoming Left Ref Time (s)	0.0	15.7
Combined (s)	68.0	73.6

Intersection Summary			
Intersection Capacity Utilization	61.6%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	693	167	179	943	165	145
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	693	167	179	943	165	145
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	18.0	13.9	6.8	24.4		12.0
Adj Reference Time (s)	22.5	18.4	11.3	28.9		16.5
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	18.0		102.7	24.4	94.7	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	18.0			102.7		
Adj Reference Time (s)	22.5			107.2		
Split Option						
Ref Time Combined (s)	18.0		6.8	24.4	6.3	
Ref Time Seperate (s)	18.0		6.8	24.4	6.3	
Reference Time (s)	18.0		24.4	24.4	6.3	
Adj Reference Time (s)	22.5		28.9	28.9	10.8	

Summary	NW SE	NE	Combined
Protected Option (s)	33.8	NA	
Permitted Option (s)	107.2	Err	
Split Option (s)	51.4	10.8	
Minimum (s)	33.8	10.8	44.6

Right Turns	SER	NER
Adj Reference Time (s)	18.4	16.5
Cross Thru Ref Time (s)	0.0	22.5
Oncoming Left Ref Time (s)	11.3	0.0
Combined (s)	29.7	39.0

Intersection Summary			
Intersection Capacity Utilization	37.2%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix H—Synchro Reports [2025 With Project – PM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	120	423	10	10	396	94	25	18	62	231	7	185
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	120	433	0	10	396	94	25	80	0	231	7	185
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	1.00	0.85	0.95	1.00	0.85	0.95	0.88	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3226	0	3136	3237	1445	1615	1502	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	4.6	16.1	0.0	0.4	14.7	7.8	1.9	6.4	0.0	8.8	0.3	15.4
Adj Reference Time (s)	9.5	20.6	0.0	9.5	19.2	12.3	9.5	10.9	0.0	13.3	9.5	19.9
Permitted Option												
Adj Saturation A (vph)	105	1613		105	1618		108	1502		105	1618	
Reference Time A (s)	68.9	16.1		5.7	14.7		27.9	6.4		132.6	0.3	
Adj Saturation B (vph	NA	NA		NA	NA		0	1502		0	3237	
Reference Time B (s)	NA	NA		NA	NA		9.9	6.4		16.8	0.3	
Reference Time (s)		68.9			14.7			9.9			16.8	
Adj Reference Time (s)		73.4			19.2			14.4			21.3	
Split Option												
Ref Time Combined (s)	4.6	16.1		0.4	14.7		1.9	6.4		8.8	0.3	
Ref Time Seperate (s)	4.6	15.7		0.4	14.7		1.9	1.4		8.8	0.3	
Reference Time (s)	16.1	16.1		14.7	14.7		6.4	6.4		8.8	8.8	
Adj Reference Time (s)	20.6	20.6		19.2	19.2		10.9	10.9		13.3	13.3	

Summary	NW SE	NE SW	Combined
Protected Option (s)	30.1	24.2	
Permitted Option (s)	73.4	21.3	
Split Option (s)	39.8	24.2	
Minimum (s)	30.1	21.3	51.4

Right Turns	NWR	SWR
Adj Reference Time (s)	12.3	19.9
Cross Thru Ref Time (s)	10.9	19.2
Oncoming Left Ref Time (s)	9.5	9.5
Combined (s)	32.7	48.5

Intersection Summary			
Intersection Capacity Utilization	42.9%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	575	206	358	1607	775	344
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	575	206	358	1607	775	344
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		17.1	13.7	41.6	20.1	28.6
Adj Reference Time (s)		21.6	18.2	46.1	24.6	33.1
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	330.0		205.5	41.6	20.1	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				205.5	20.1	
Adj Reference Time (s)				210.0	24.6	
Split Option						
Ref Time Combined (s)	22.0		13.7	41.6	20.1	
Ref Time Seperate (s)	22.0		13.7	41.6	20.1	
Reference Time (s)	22.0		41.6	41.6	20.1	
Adj Reference Time (s)	26.5		46.1	46.1	24.6	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	46.1	
Permitted Option (s)	Err	210.0	
Split Option (s)	26.5	70.7	
Minimum (s)	26.5	46.1	72.6

Right Turns	SER	SWR
Adj Reference Time (s)	21.6	33.1
Cross Thru Ref Time (s)	24.6	0.0
Oncoming Left Ref Time (s)	0.0	18.2
Combined (s)	46.2	51.3

Intersection Summary			
Intersection Capacity Utilization	60.5%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	1385	132	184	1371	128	132
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	1385	132	184	1371	128	132
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	35.9	11.0	7.0	35.5		11.0
Adj Reference Time (s)	40.4	15.5	11.5	40.0		15.5
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	35.9		105.6	35.5	73.5	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	35.9			105.6		
Adj Reference Time (s)	40.4			110.1		
Split Option						
Ref Time Combined (s)	35.9		7.0	35.5	4.9	
Ref Time Seperate (s)	35.9		7.0	35.5	4.9	
Reference Time (s)	35.9		35.5	35.5	4.9	
Adj Reference Time (s)	40.4		40.0	40.0	9.5	

Summary	NW SE	NE	Combined
Protected Option (s)	51.9	NA	
Permitted Option (s)	110.1	Err	
Split Option (s)	80.4	9.5	
Minimum (s)	51.9	9.5	61.4

Right Turns	SER	NER
Adj Reference Time (s)	15.5	15.5
Cross Thru Ref Time (s)	0.0	40.4
Oncoming Left Ref Time (s)	11.5	0.0
Combined (s)	27.0	55.9

Intersection Summary			
Intersection Capacity Utilization	51.2%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix I—Synchro Reports [2028 With Project – AM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	61	258	102	307	414	77	101	127	192	121	149	106
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	61	360	0	307	414	77	101	319	0	121	149	106
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	0.96	0.85	0.95	1.00	0.85	0.95	0.91	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3099	0	3136	3237	1445	1615	1547	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	2.3	13.9	0.0	11.7	15.3	6.4	7.5	24.8	0.0	4.6	5.5	8.8
Adj Reference Time (s)	9.5	18.4	0.0	16.2	19.8	10.9	12.0	29.3	0.0	9.5	10.0	13.3
Permitted Option												
Adj Saturation A (vph)	105	1550		105	1618		108	1547		105	1618	
Reference Time A (s)	35.0	13.9		176.2	15.3		112.6	24.8		69.4	5.5	
Adj Saturation B (vph	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time B (s)	NA	NA		NA	NA		NA	NA		NA	NA	
Reference Time (s)		35.0			176.2			112.6			69.4	
Adj Reference Time (s)		39.5			180.7			117.1			73.9	
Split Option												
Ref Time Combined (s)	2.3	13.9		11.7	15.3		7.5	24.8		4.6	5.5	
Ref Time Seperate (s)	2.3	10.0		11.7	15.3		7.5	9.9		4.6	5.5	
Reference Time (s)	13.9	13.9		15.3	15.3		24.8	24.8		5.5	5.5	
Adj Reference Time (s)	18.4	18.4		19.8	19.8		29.3	29.3		10.0	10.0	

Summary	NW SE	NE SW	Combined
Protected Option (s)	34.7	38.8	
Permitted Option (s)	180.7	117.1	
Split Option (s)	38.3	39.3	
Minimum (s)	34.7	38.8	73.4

Right Turns	NWR	SWR
Adj Reference Time (s)	10.9	13.3
Cross Thru Ref Time (s)	29.3	19.8
Oncoming Left Ref Time (s)	9.5	12.0
Combined (s)	49.6	45.2

Intersection Summary			
Intersection Capacity Utilization	61.2%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.

Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	358	287	303	522	1427	661
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	358	287	303	522	1427	661
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		23.8	11.6	13.5	37.0	54.9
Adj Reference Time (s)		28.3	16.1	18.0	41.5	59.4
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	205.5		173.9	13.5	37.0	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				173.9	37.0	
Adj Reference Time (s)				178.4	41.5	
Split Option						
Ref Time Combined (s)	13.7		11.6	13.5	37.0	
Ref Time Seperate (s)	13.7		11.6	13.5	37.0	
Reference Time (s)	13.7		13.5	13.5	37.0	
Adj Reference Time (s)	18.2		18.0	18.0	41.5	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	57.6	
Permitted Option (s)	Err	178.4	
Split Option (s)	18.2	59.5	
Minimum (s)	18.2	57.6	75.8

Right Turns	SER	SWR
Adj Reference Time (s)	28.3	59.4
Cross Thru Ref Time (s)	41.5	0.0
Oncoming Left Ref Time (s)	0.0	16.1
Combined (s)	69.8	75.5

Intersection Summary			
Intersection Capacity Utilization	63.1%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	714	173	185	972	170	149
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	714	173	185	972	170	149
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	18.5	14.4	7.1	25.2		12.4
Adj Reference Time (s)	23.0	18.9	11.6	29.7		16.9
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	18.5		106.2	25.2	97.6	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	18.5			106.2		
Adj Reference Time (s)	23.0			110.7		
Split Option						
Ref Time Combined (s)	18.5		7.1	25.2	6.5	
Ref Time Seperate (s)	18.5		7.1	25.2	6.5	
Reference Time (s)	18.5		25.2	25.2	6.5	
Adj Reference Time (s)	23.0		29.7	29.7	11.0	

Summary	NW SE	NE	Combined
Protected Option (s)	34.6	NA	
Permitted Option (s)	110.7	Err	
Split Option (s)	52.7	11.0	
Minimum (s)	34.6	11.0	45.6

Right Turns	SER	NER
Adj Reference Time (s)	18.9	16.9
Cross Thru Ref Time (s)	0.0	23.0
Oncoming Left Ref Time (s)	11.6	0.0
Combined (s)	30.4	39.9

Intersection Summary			
Intersection Capacity Utilization	38.0%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

Appendix J—Synchro Reports [2028 With Project – PM Peak Hour]

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Volume (vph)	124	436	10	10	408	97	26	19	63	238	8	191
Pedestrians												
Ped Button												
Pedestrian Timing (s)												
Free Right			No			No			No			No
Ideal Flow	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120	120	120	120	120	120	120
Volume Combined (vph)	124	446	0	10	408	97	26	82	0	238	8	191
Lane Utilization Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	1.00	1.00	0.97	0.95	1.00
Turning Factor (vph)	0.95	1.00	0.85	0.95	1.00	0.85	0.95	0.88	0.85	0.95	1.00	0.85
Saturated Flow (vph)	3136	3226	0	3136	3237	1445	1615	1504	0	3136	3237	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)		0.00			0.00			0.00			0.00	
Protected Option Allowed		Yes			Yes			Yes			Yes	
Reference Time (s)	4.7	16.6	0.0	0.4	15.1	8.1	1.9	6.5	0.0	9.1	0.3	15.9
Adj Reference Time (s)	9.5	21.1	0.0	9.5	19.6	12.6	9.5	11.0	0.0	13.6	9.5	20.4
Permitted Option												
Adj Saturation A (vph)	105	1613		105	1618		108	1504		105	1618	
Reference Time A (s)	71.2	16.6		5.7	15.1		29.0	6.5		136.6	0.3	
Adj Saturation B (vph	NA	NA		NA	NA		0	1504		0	3237	
Reference Time B (s)	NA	NA		NA	NA		9.9	6.5		17.1	0.3	
Reference Time (s)		71.2			15.1			9.9			17.1	
Adj Reference Time (s)		75.7			19.6			14.4			21.6	
Split Option												
Ref Time Combined (s)	4.7	16.6		0.4	15.1		1.9	6.5		9.1	0.3	
Ref Time Seperate (s)	4.7	16.2		0.4	15.1		1.9	1.5		9.1	0.3	
Reference Time (s)	16.6	16.6		15.1	15.1		6.5	6.5		9.1	9.1	
Adj Reference Time (s)	21.1	21.1		19.6	19.6		11.0	11.0		13.6	13.6	

Summary	NW SE	NE SW	Combined
Protected Option (s)	30.6	24.6	
Permitted Option (s)	75.7	21.6	
Split Option (s)	40.7	24.6	
Minimum (s)	30.6	21.6	52.2

Right Turns	NWR	SWR
Adj Reference Time (s)	12.6	20.4
Cross Thru Ref Time (s)	11.0	19.6
Oncoming Left Ref Time (s)	9.5	9.5
Combined (s)	33.1	49.5

Intersection Summary			
Intersection Capacity Utilization	43.5%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Volume (vph)	592	212	369	1656	798	354
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	592	212	369	1656	798	354
Lane Utilization Factor	0.97	1.00	0.97	0.91	0.91	1.00
Turning Factor (vph)	0.95	0.85	0.95	1.00	1.00	0.85
Saturated Flow (vph)	3136	1445	3136	4631	4631	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			Yes	Yes	
Reference Time (s)		17.6	14.1	42.9	20.7	29.4
Adj Reference Time (s)		22.1	18.6	47.4	25.2	33.9
Permitted Option						
Adj Saturation A (vph)	105		105	1544	1544	
Reference Time A (s)	339.8		211.8	42.9	20.7	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)				211.8	20.7	
Adj Reference Time (s)				216.3	25.2	
Split Option						
Ref Time Combined (s)	22.7		14.1	42.9	20.7	
Ref Time Seperate (s)	22.7		14.1	42.9	20.7	
Reference Time (s)	22.7		42.9	42.9	20.7	
Adj Reference Time (s)	27.2		47.4	47.4	25.2	

Summary	SE	NE SW	Combined
Protected Option (s)	NA	47.4	
Permitted Option (s)	Err	216.3	
Split Option (s)	27.2	72.6	
Minimum (s)	27.2	47.4	74.6

Right Turns	SER	SWR
Adj Reference Time (s)	22.1	33.9
Cross Thru Ref Time (s)	25.2	0.0
Oncoming Left Ref Time (s)	0.0	18.6
Combined (s)	47.3	52.5

Intersection Summary			
Intersection Capacity Utilization	62.1%	ICU Level of Service	B

Reference Times and Phasing Options do not represent an optimized timing plan.



Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Volume (vph)	1427	136	189	1413	132	136
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1700	1700	1700	1700	1700	1700
Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	1427	136	189	1413	132	136
Lane Utilization Factor	0.91	1.00	0.97	0.91	0.97	1.00
Turning Factor (vph)	1.00	0.85	0.95	1.00	0.95	0.85
Saturated Flow (vph)	4631	1445	3136	4631	3136	1445
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	Yes			Yes	No	
Reference Time (s)	37.0	11.3	7.2	36.6		11.3
Adj Reference Time (s)	41.5	15.8	11.7	41.1		15.8
Permitted Option						
Adj Saturation A (vph)	1544		105	1544	105	
Reference Time A (s)	37.0		108.5	36.6	75.8	
Adj Saturation B (vph	NA		NA	NA	NA	
Reference Time B (s)	NA		NA	NA	NA	
Reference Time (s)	37.0			108.5		
Adj Reference Time (s)	41.5			113.0		
Split Option						
Ref Time Combined (s)	37.0		7.2	36.6	5.1	
Ref Time Seperate (s)	37.0		7.2	36.6	5.1	
Reference Time (s)	37.0		36.6	36.6	5.1	
Adj Reference Time (s)	41.5		41.1	41.1	9.6	

Summary	NW SE	NE	Combined
Protected Option (s)	53.2	NA	
Permitted Option (s)	113.0	Err	
Split Option (s)	82.6	9.6	
Minimum (s)	53.2	9.6	62.8

Right Turns	SER	NER
Adj Reference Time (s)	15.8	15.8
Cross Thru Ref Time (s)	0.0	41.5
Oncoming Left Ref Time (s)	11.7	0.0
Combined (s)	27.5	57.3

Intersection Summary			
Intersection Capacity Utilization	52.3%	ICU Level of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.