Appendix A:

Air Quality Assessment

Gateway South 9 Warehouse

AIR QUALITY IMPACT ANALYSIS

CITY OF SAN BERNARDINO

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m^3	Microgram per Cubic Meter
1992 CO Plan	*1992 Federal Attainment Plan for Carbon Monoxide*
1993 CEQA Handbook	*SCAQMD's CEQA Air Quality Handbook (1993)*
2016-2040 RTP/SCS	*2016-2040 Regional Transportation Plan/Sustainable Communities Strategy*
AB 2595	California Clean Air Act
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BACT	Best Available Control Technology
BC	Black Carbon
Brief	*Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case*
C_2Cl_4	Perchloroethylene
C_4H_6	1,3-butadiene
C_6H_6	Benzene
C_2H_3Cl	Vinyl Chloride
C_2H_4O	Acetaldehyde
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CH_2O	Formaldehyde
City	City of San Bernardino
CO	Carbon Monoxide
COH	Coefficient of Haze

COHb	Carboxyhemoglobin
Cr(VI)	Chromium
CTP	Clean Truck Program
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EC	Elemental Carbon
EIR	Environmental Impact Report
EMFAC	Emissions FACtor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
EV	Electric Vehicle
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H_2S	Hydrogen Sulfide
HDT	Heavy-Duty Trucks
HHDT	Heavy-Heavy-Duty Trucks
HI	Hazard Index
hp	Horsepower
lbs	Pounds
lbs/day	Pounds Per Day
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
LST Methodology	*Final Localized Significance Threshold Methodology*
MATES	Multiple Air Toxics Exposure Study
MCY	Motorcycles
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
mph	Miles Per Hour
MWELO	California Department of Water Resources' Model Water Efficient
N_2	Nitrogen
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide

NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
O_2	Oxygen
O_3	Ozone
O_2 Deficiency	Chronic Hypoxemia
OBD-II	On-Board Diagnostic
ODC	Ozone Depleting Compounds
Pb	Lead
PM	Particulate Matter
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	Gateway South 9 Warehouse
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
sf	Square Feet
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SO_4	Sulfates
SO_X	Sulfur Oxides
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
Title 24	California Building Code
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
UFP	Ultrafine Particles
URBEMIS	URBan EMISsions
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Gateway South 9 Warehouse Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	4.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	4.7	*Less Than Significant*	*n/a*
Regional Operational Emissions	4.5	*Less Than Significant*	*n/a*
Localized Operational Emissions	4.7	*Less Than Significant*	*n/a*
CO "Hot Spot" Analysis	4.9	*Less Than Significant*	*n/a*
Air Quality Management Plan	4.10	*Less Than Significant*	*n/a*
Sensitive Receptors	4.11	*Less Than Significant*	*n/a*
Odors	4.12	*Less Than Significant*	*n/a*
Cumulative Impacts	4.13	*Less Than Significant*	*n/a*

ES.2 REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality.

Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or

other forms of property, or can cause excessive soiling on any other parcel shall conform to the requirements of the South Coast Air Quality Management District (SCAQMD).

SCAQMD RULES

SCAQMD Rules that are currently applicable during construction activity for this Project are described below.

SCAQMD RULE 402

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

Odor Emissions. All uses shall be operated in a manner such that no offensive odor is perceptible at or beyond the property line of that use.

SCAQMD RULE 403

This rule is intended to reduce the amount of particulate matter (PM) entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities. More specifically, Rule 403 would require watering disturbed surfaces three times per day during grading activities.

Dust Control, Operations. Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or other forms of property, or can cause excessive soiling on any other parcel, shall conform to the requirements of the SCAQMD.

SCAQMD RULE 1113

This rule serves to limit the Volatile Organic Compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

SCAQMD RULE 1301

This rule is intended to provide that pre-construction review requirements to ensure that new or relocated facilities do not interfere with progress in attainment of the National Ambient Air Quality Standards (NAAQS), while future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors. Rule 1301 also limits emission increases of ammonia, and Ozone Depleting Compounds (ODCs) from new, modified or relocated facilities by requiring the use of Best Available Control Technology (BACT).

SCAQMD RULE 1401

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States (U.S.) Bureau of Mines.

Although the Project would comply with the above regulatory requirements, it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod). The two most pertinent regulatory requirements that could be modeled, are Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). Because they are required by law, credit for Rule 403 and Rule 1113 have been taken in the analysis.

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1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Gateway South 9 Warehouse (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

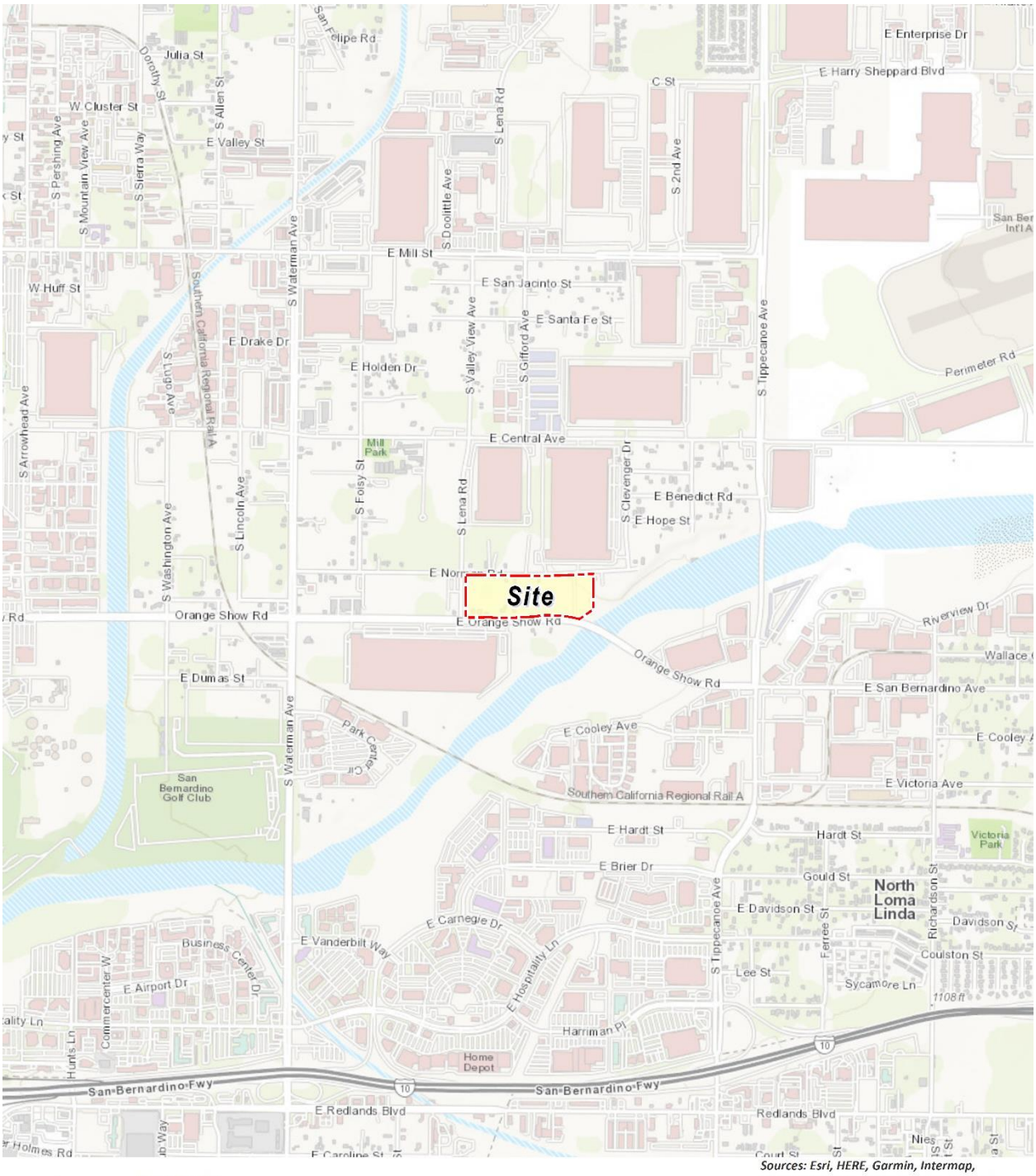
1.1 SITE LOCATION

The proposed Project is located at the southeast corner of Lena Road and Norman Road in the City of San Bernardino, as shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of the development of a 397,400 square foot (sf) high-cube transload and short-term warehouse building, as shown on Exhibit 1-B. The anticipated Project opening year is 2024.

EXHIBIT 1-A: LOCATION MAP

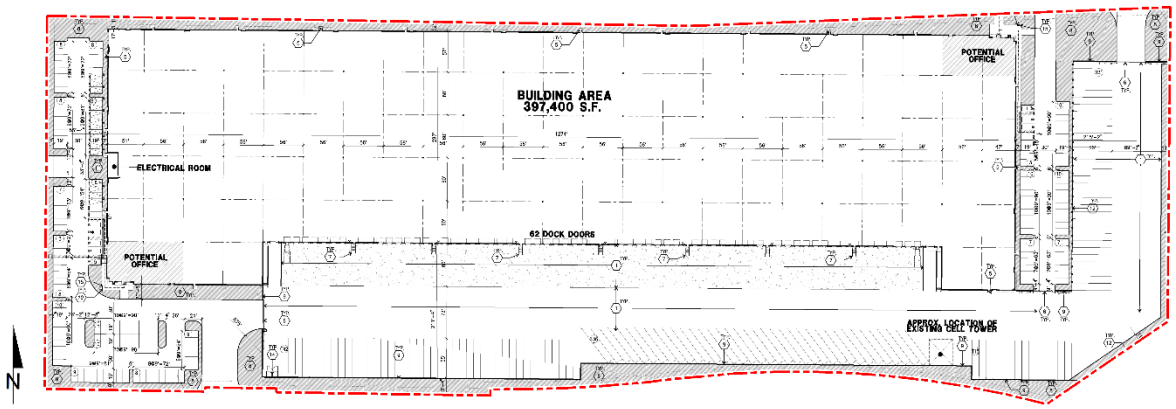


LEGEND:

Site Boundary

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS

EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (4). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and the San Diego Air Basin to the south.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent (%) along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year, there are approximately 10 hours of possible sunshine, and on the longest day of the year, there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as nitrogen oxides (NO_X) and carbon monoxide (CO) from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

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

2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (5):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
Carbon Monoxide (CO)	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O_3), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O_2) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O_2 transport and competing with O_2 to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O_2 supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O_2 deficiency) as seen at high altitudes.
Sulfur Dioxide (SO_2)	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant	Coal or oil burning power plants and industries,	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some

Criteria Pollutant	Description	Sources	Health Effects
	mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms SO_4. Collectively, these pollutants are referred to as sulfur oxides (SO_X).	refineries, diesel engines	asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.
Oxides of Nitrogen (NO_X)	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with O_2. Their lifespan in the atmosphere ranges from	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is

Criteria Pollutant	Description	Sources	Health Effects
	one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO_X is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	equipment and residential heating.	associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O_3 exposure increases when animals are exposed to a combination of O_3 and NO_2.
Ozone (O_3)	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O_3 concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	Formed when reactive organic gases (ROG) and NO_X react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O_3 effects. Short-term exposure (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased

Criteria Pollutant	Description	Sources	Health Effects
		storage and pesticides.	susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O_3 levels are associated with increased school absences. In recent years, a correlation between elevated ambient O_3 levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high O_3 levels. O_3 exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O_3 may be more toxic than exposure to O_3 alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.
Particulate Matter (PM)	PM_{10}: A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be	Sources of PM_{10} include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In

Criteria Pollutant	Description	Sources	Health Effects
	deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$: A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO_4 formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.
Volatile Organic Compounds (VOC)	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O_3 to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the	Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic	Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.

Criteria Pollutant	Description	Sources	Health Effects
	solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	compounds while you are using them, and, to some degree, when they are stored.	
Reactive Organic Gases (ROG)	Similar to VOC, ROGs are also precursors in forming O_3 and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO_X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be

Criteria Pollutant	Description	Sources	Health Effects
	generate a quantifiable amount of Pb emissions.		stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (6).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (7).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (8).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page …

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, 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 ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone 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 PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, 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. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that 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.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3, particulate matter (PM_{10} and $PM_{2.5}$), NO_2, and SO_2 which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (9). On January 5, 2021, CARB posted the 2020 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (10). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Attainment	Unclassifiable/Attainment
Pb[1]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005.

2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents about the air quality conditions. The Project site is located within the Central San Bernardino Valley 2 area (SRA 34). The Central San Bernardino Valley 2 monitoring station is located approximately 1.8 miles north of the Project site and reports air quality statistics for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2018 through 2020 was obtained from the SCAQMD Air Quality Data Tables (11). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2018-2020

Pollutant	Standard	Year		
		2018	2019	2020
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.138	0.127	0.162
Maximum Federal 8-Hour Concentration (ppm)		0.116	0.114	0.128
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	63	63	89
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	102	96	128
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	2.7	1.3	1.9
Maximum Federal 8-Hour Concentration	> 20 ppm	2.5	1.1	1.4
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.057	0.059	0.054
Annual Federal Standard Design Value		0.016	0.014	0.015
PM_{10}				
Maximum Federal 24-Hour Concentration (µg/m^3)	> 150 µg/m^3	129	112	80
Annual Federal Arithmetic Mean (µg/m^3)		30.2	29.9	38.7
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m^3	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m^3	25	36	81
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration (µg/m^3)	> 35 µg/m^3	30.10	34.80	25.70
Annual Federal Arithmetic Mean (µg/m^3)	> 12 µg/m^3	11.17	10.06	11.66
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m^3	0	0	0

ppm = Parts Per Million
µg/m^3 = Microgram per Cubic Meter
Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_X, SO_2, PM_{10}, and Pb (12). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (13). The CAA also mandates that states submit and implement SIPs for local areas not meeting these

standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (14) (15). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

CARB

CARB, which became part of CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO_4, visibility, hydrogen sulfide (H_2S), and vinyl chloride (C_2H_3Cl). However, at this time, H_2S and C_2H_3Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (16) (12).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;

- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that will be effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide $1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (17). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (18):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty electric vehicle supply equipment for warehouses, grocery stores, and retail stores.

- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).

- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (19). AQMPs are updated regularly to ensure an effective reduction in emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.

2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists of is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

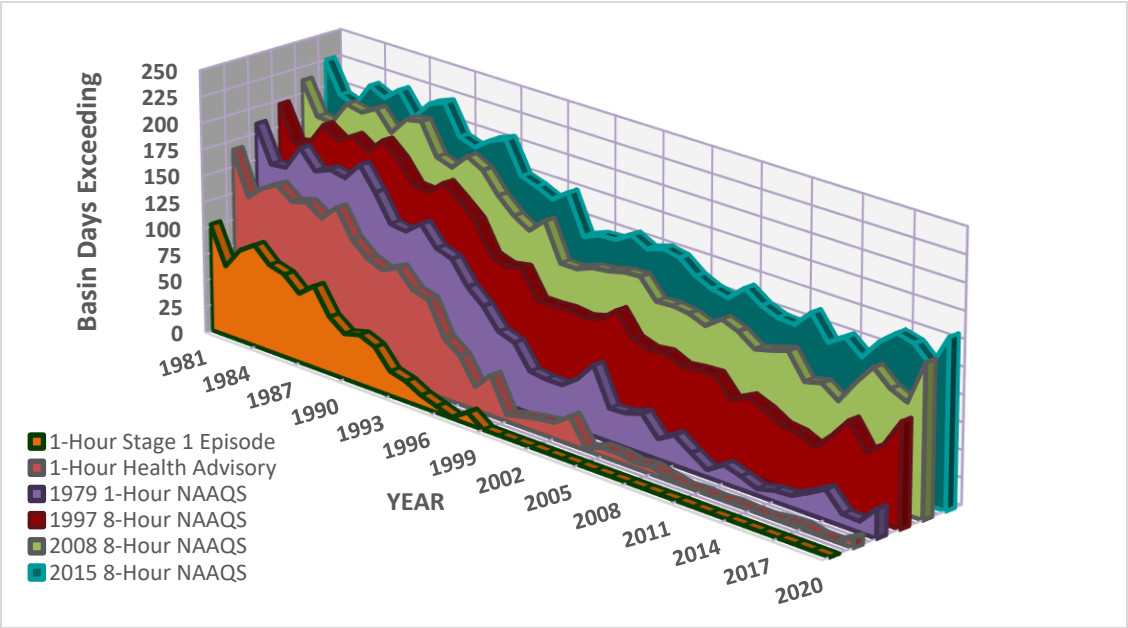
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (20).

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (21). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown on Table 2-5, O_3 levels have increased in the past three years due to higher temperatures and stagnant weather

conditions. Notwithstanding, O_3 levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (22).

TABLE 2-5: SCAB O_3 TREND

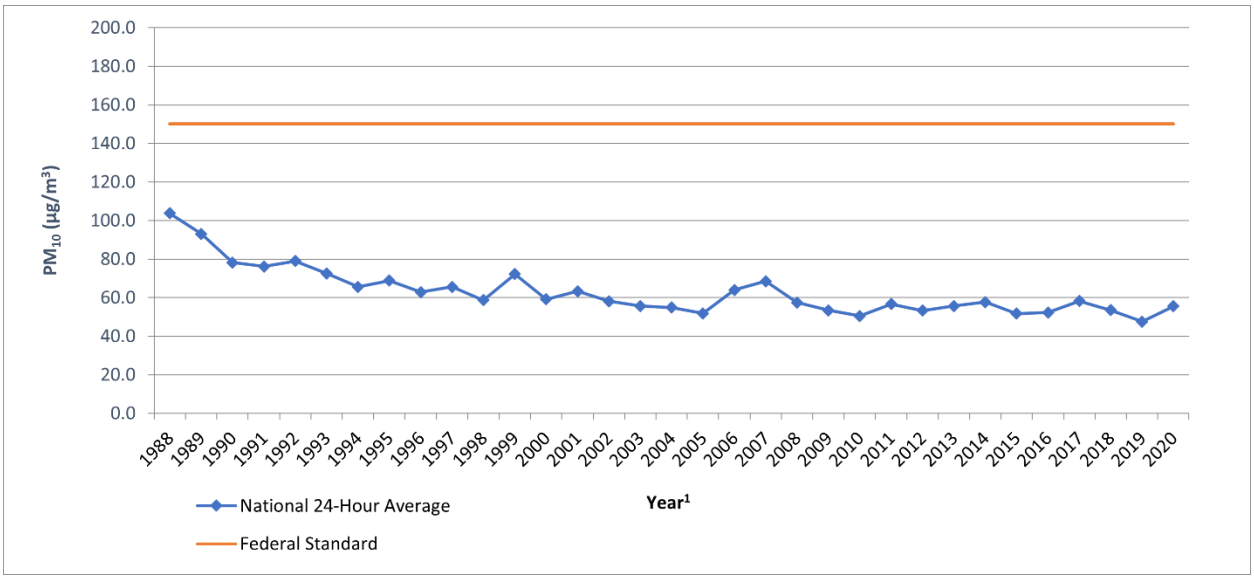


Source: 2020 SCAQMD, Historical O_3 Air Quality Trends (1976-2020)

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction, and other sources) contribute the greatest amount of direct particulate matter emissions.

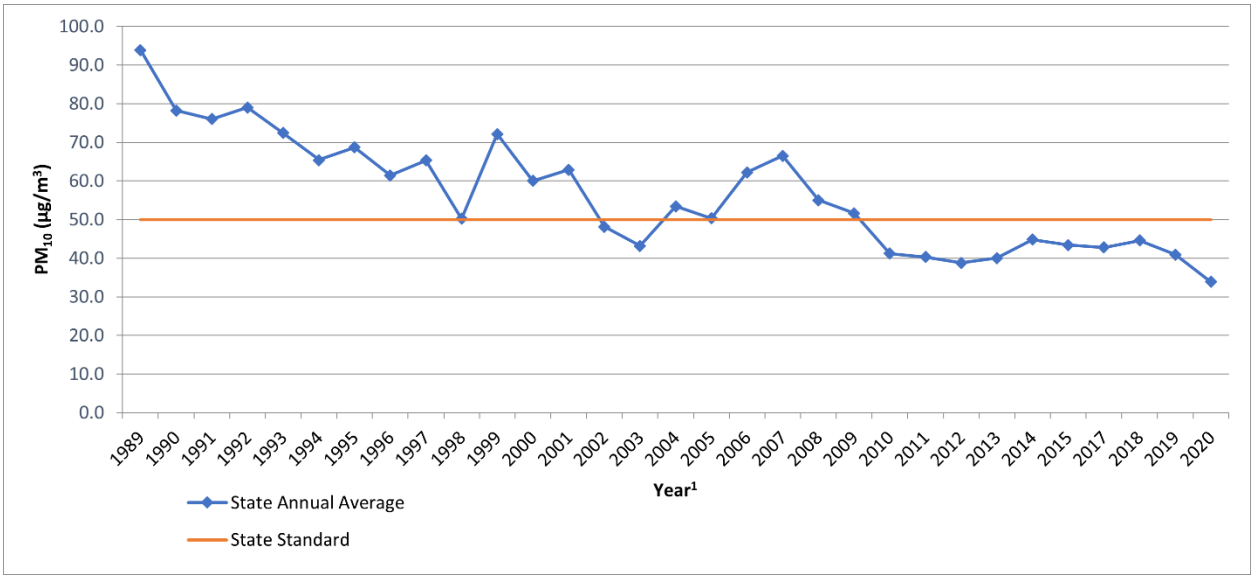
As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 46%, from 103.7 microgram per cubic meter (µg/m³) in 1988 to 55.5 µg/m³ in 2020 (23). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM_{10}, have decreased by approximately 64%, from 93.9 µg/m³ in 1989 to 33.9 µg/m³ in 2020 (23). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

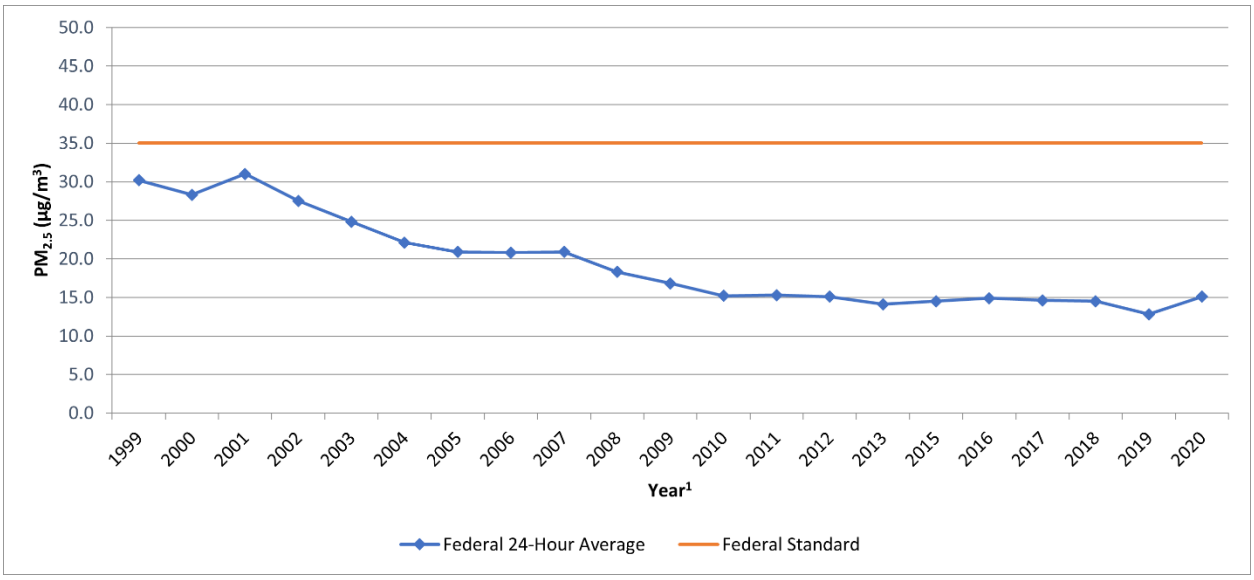
TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

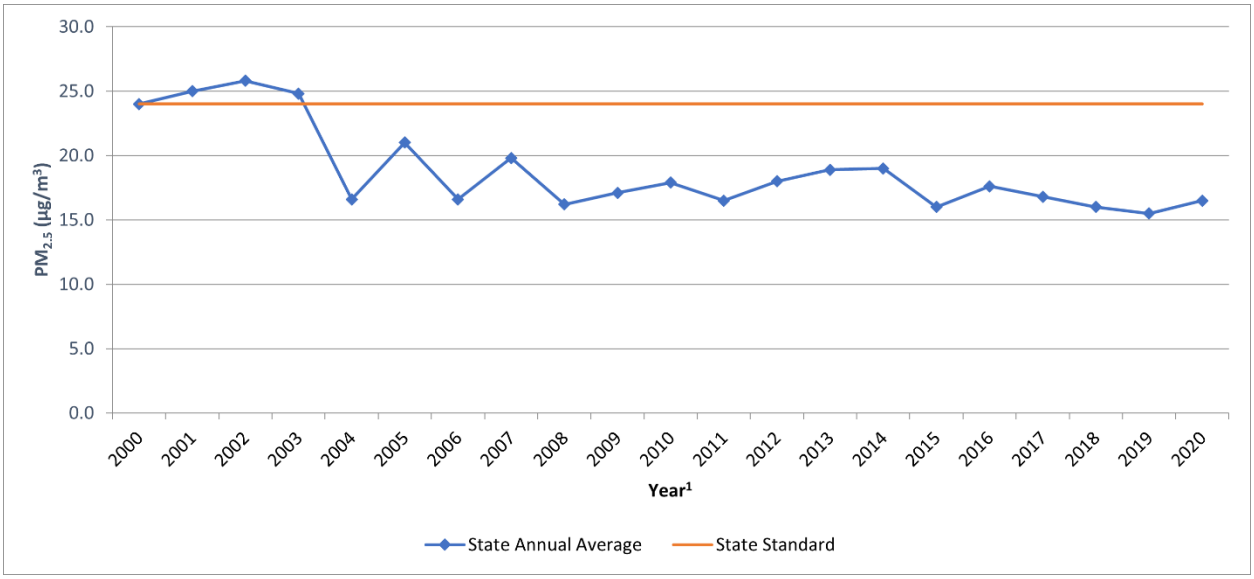
Tables 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2020. Overall, the national and state annual average concentrations have decreased by almost 50% and 31% respectively (23). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

While the 2012 AQMP PM_{10} attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured $PM_{2.5}$.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of

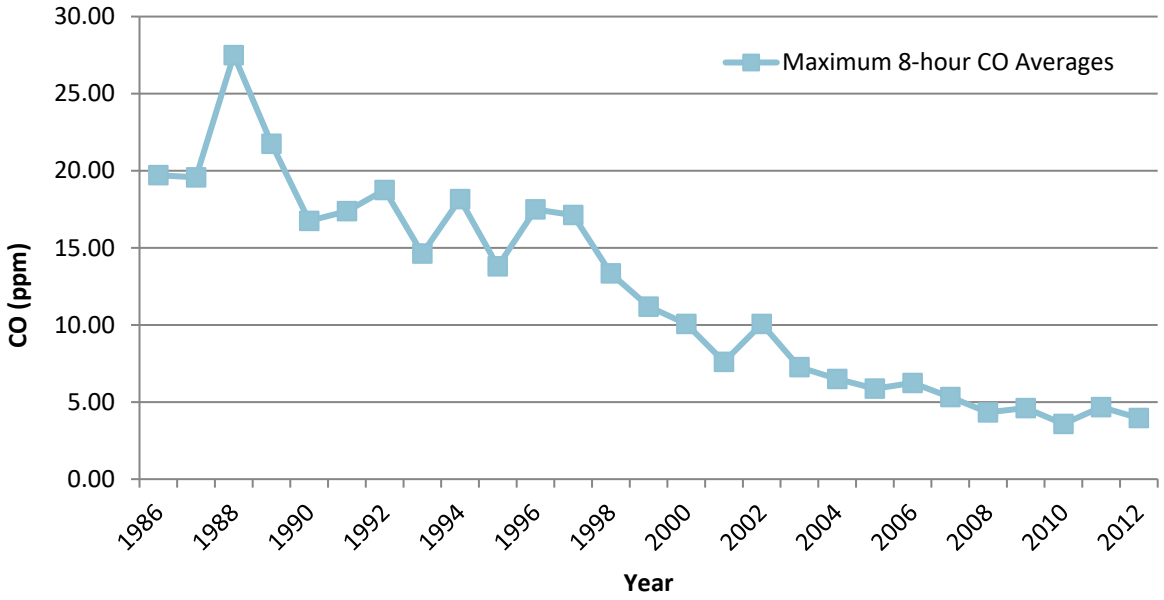
the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019. As of March 14, 2019, the EPA approved portions of a SIP revision submitted by California to address CAA requirements for the 2006 24-hour $PM_{2.5}$ NAAQS in the Los Angeles-SCAB Serious $PM_{2.5}$ nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (24).

In March 2017, the SCAQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (25). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS) and updated emission inventory methodologies for various source categories (19).

The draft 2022 AQMP has been prepared by SCAQMD to address the EPA's strengthened ozone standard. The draft 2022 AQMP was released in August 2022 and public comment closed on October 18, 2022. The SCAQMD Governing Board is expected to consider adoption of the draft 2022 AQMP at its upcoming December 2, 2022, meeting.

The most recent CO concentrations in the SCAB are shown in Table 2-10 (23). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND[1]

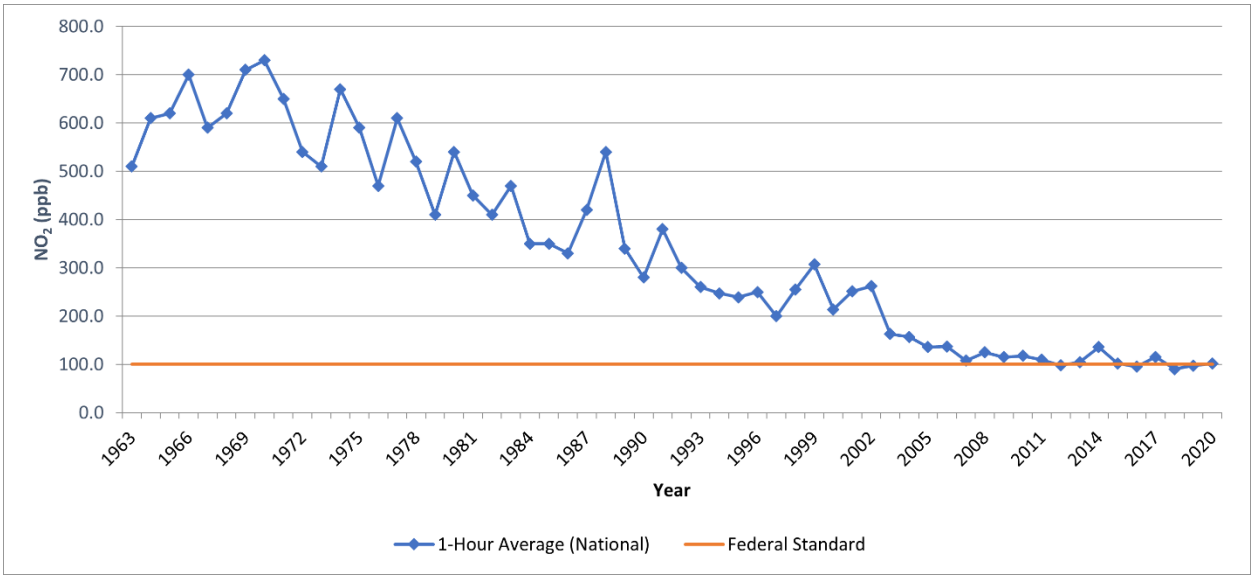


Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)
[1] The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook (1993)* (*1993 CEQA Handbook*) (26). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

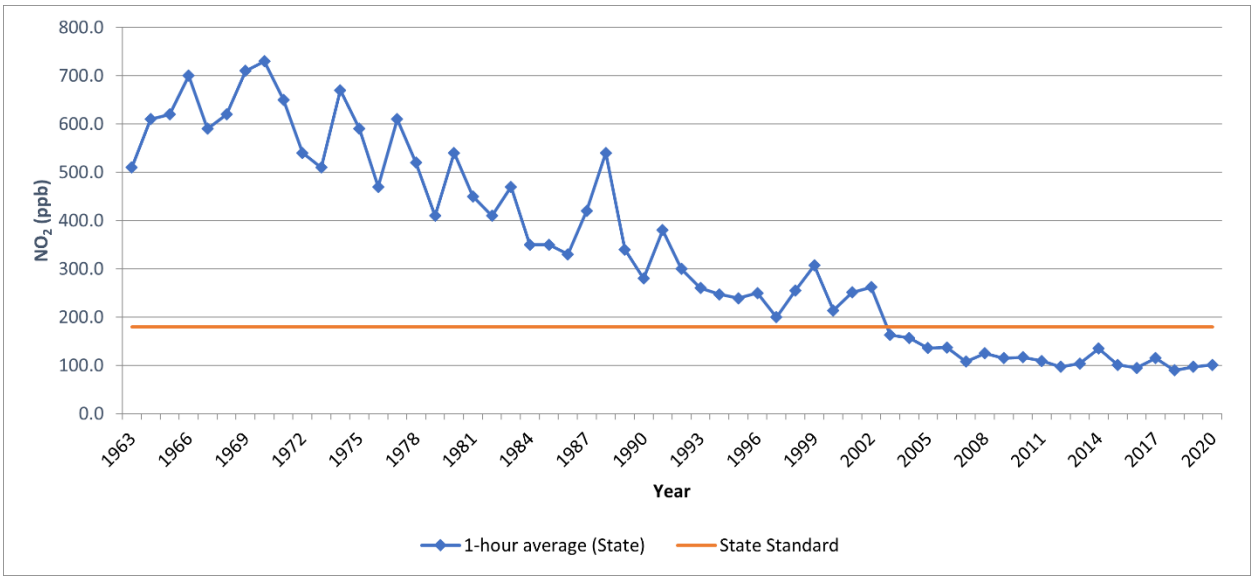
The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (23). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 ppm was adopted by CARB in February 2007 (27). The new standard is just barely exceeded in the SCAQMD. NO_2 is formed from NO_X emissions, which also contribute to O_3. As a result, the majority of the future emission control measures would be implemented as part of the overall O_3 control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD)



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (28) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for

the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O)[2]. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

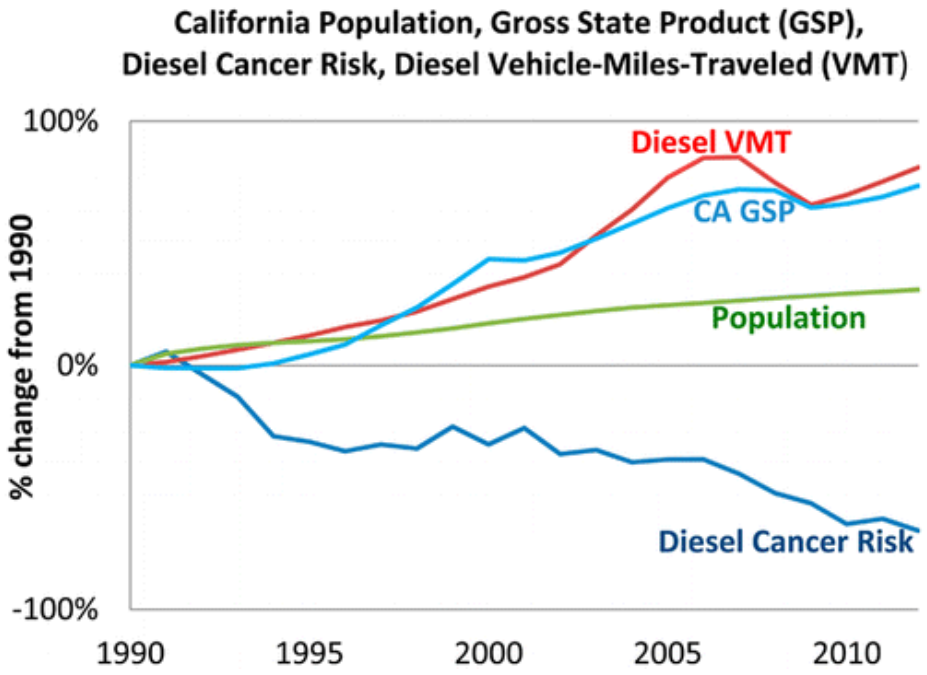
MOBILE SOURCE TACS

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon." The system would also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (28).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15 ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

[2] It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND



Source: 2020 CARB

DIESEL REGULATIONS

CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (29), CARB statewide On-road Truck and Bus Regulation (30), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (31). In other words, older more polluting trucks would be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, would dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study called the Multiple Air Toxics Exposure Study (MATES). DPM accounts for more than 70% of the cancer risk.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (32). The final report for the MATES V study was published August 2021. In addition to new measurements and updated modeling results, several key updates were implemented in MATES V. First, MATES V estimates cancer risks by taking into account multiple exposure pathways, which includes inhalation and non-inhalation pathways. This approach is consistent with how cancer risks are estimated in South Coast AQMD's programs such as permitting, Air Toxics Hot Spots (AB2588), and CEQA. Previous MATES studies quantified the cancer risks based on the inhalation pathway only. Second, along with cancer risk estimates, MATES V includes information on the chronic non-cancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic non-cancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazard Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time (33).

MATES-V calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. The Project is located within a quadrant of the geographic grid of the MATES-V model which predicted a cancer risk of 464 in one million for the area containing the Project site. DPM is included in this cancer risk along with all other TAC sources. As in previous MATES iterations, DPM is the largest contributor to overall air toxics cancer risk. However, the average levels of DPM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Cumulative Project generated TACs are limited to DPM.

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3 EXISTING PROJECT SITE AIR QUALITY EMISSIONS

The southern portion of the Project site is currently occupied by trailer parking lot on Norman Road totaling approximately 2 acres. As part of the traffic analysis, existing counts were taken to determine activity at the trailer parking lot. As summarized in *Gateway South 9 Warehouse Traffic Scope* (34), the existing use generates 153 total vehicle daily trips, including 133 total truck trips. As such, existing emissions were calculated utilizing CalEEMod version 2022.1. The emissions calculated are based on the existing trips as well as model defaults for area and energy source. The estimated operation-source emissions from the existing development are summarized on Table 3-1. Detailed operation model outputs are presented in Appendix 3.1.

TABLE 3-1: EMISSIONS FROM EXISTING DEVELOPMENT

Source	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
Mobile Source	0.22	8.86	5.70	0.06	1.10	0.34
Area Source	2.82	0.03	3.79	0.00	0.01	0.01
Energy Source	0.02	0.44	0.37	0.00	0.03	0.03
Total Maximum Daily Emissions	**3.06**	**9.33**	**9.86**	**0.06**	**1.14**	**0.38**
Winter						
Mobile Source	0.21	9.25	5.64	0.06	1.10	0.34
Area Source	2.20	0.00	0.00	0.00	0.00	0.00
Energy Source	0.02	0.44	0.37	0.00	0.03	0.03
Total Maximum Daily Emissions	**2.43**	**9.69**	**6.01**	**0.06**	**1.13**	**0.37**

Source: CalEEMod existing operational-source emissions are presented in Appendix 3.1.

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4 PROJECT AIR QUALITY IMPACT

4.1 INTRODUCTION

This study quantifies air quality emissions generated by construction and operation of the Project and addresses whether the Project conflicts with implementation of the SCAQMD's AQMP and Lead Agency planning regulations. The analysis of Project-generated air emissions determines whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine whether the Project would expose sensitive receptors to substantial pollutant concentrations and the impacts of odors. The significance of these potential impacts is described in the following sections.

4.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 4-1 (35). The SCAQMD's *CEQA Air Quality Significance Thresholds* (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 4-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

4.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY

4.3.1 CALEEMOD

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In May 2022 the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of CalEEMod version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (36). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 4.1 through 4.3.

4.4 CONSTRUCTION EMISSIONS

4.4.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project would result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Demolition/Crushing
- Grading
- Building Construction
- Paving
- Architectural Coating

DEMOLITION ACTIVITIES

The site is currently developed with existing buildings which total approximately 18,680 sf that will be demolished.

CRUSHING ACTIVITIES

The Project activities would include on-site crushing of concrete and asphalt pulverizing during demolition activity. Fugitive dust emissions would also be generated through the crushing debris on-site. The U.S. EPA's AP-42 compilation of emission factors available in Chapter 11.19.2-2 were used to estimate fugitive dust from crushing activities. As noted above, it is estimated that approximately 40.92 tons of debris would be crushed per day.

GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil

moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. This analysis assumes that earthwork activities are expected to balance on site and no import or export of soils would be required.

OFF-SITE UTILITY AND INFRASTRUCTURE IMPROVEMENTS

In addition, to support the Project development, there will be paving for off-site improvements associated with roadway construction and utility installation for the Project. It is expected that the off-site construction activities would not take place at one location for the entire duration of construction. Impacts associated with these activities are not expected to exceed the emissions identified for Project-related construction activities since the off-site construction areas would have physical constraints on the amount of daily activity that could occur. The physical constraints would limit the amount of construction equipment that could be used, and any off-site and utility infrastructure construction would not use equipment totals that would exceed the equipment totals on Table 4-4. As such, no impacts beyond what has already been identified in this report are expected to occur.

ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, vendors, and hauling trucks commuting to and from the site. The number of workers, vendor, and haul trips are presented below in Table 4-2. It should be noted that for vendor trips, specifically, CalEEMod only assigns vendor trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for vendor trips have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity.

TABLE 4-2: CONSTRUCTION TRIP ASSUMPTIONS

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Demolition/Crushing	18	6	11
Grading	28	5	0
Building Construction	167	40	0
Paving	15	5	0
Architectural Coating	33	10	0

4.4.2 CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in June 2023 and would last through June 2024. The construction schedule utilized in the analysis, shown in Table 4-3, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis

year increases due to emission regulations becoming more stringent[3]. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

TABLE 4-3: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Demolition/Crushing	6/6/2023	7/4/2023	20
Grading	7/5/2023	8/1/2023	20
Building Construction	8/2/2023	3/12/2024	160
Paving	3/13/2024	4/9/2024	20
Architectural Coating	4/10/2024	6/4/2024	40

4.4.3 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Construction Activity	Equipment[1]	Amount	Hours Per Day
Demolition/Crushing	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
	Crushing/Proc. Equipment	1	8
Graders	Excavators	3	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	3	8
	Crawler Tractors	3	8
Building Construction	Cranes	2	8
	Forklifts	4	8
	Generator Sets	2	8
	Welders	2	8
	Crawler Tractors	4	8

[3] As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Construction Activity	Equipment[1]	Amount	Hours Per Day
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

[1] In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes during the site preparation and grading phases of Project construction.

4.4.4 CONSTRUCTION EMISSIONS SUMMARY

IMPACTS WITHOUT MITIGATION

The estimated maximum daily construction emissions without mitigation are summarized on Table 4-5. Detailed construction model outputs are presented in Appendix 4.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed the thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 4-5: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITHOUT MITIGATION

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
2023	36.90	54.10	74.00	0.09	6.09	3.49
2024	50.00	8.07	11.40	0.02	0.63	0.42
Winter						
2023	4.13	31.20	37.60	0.05	4.23	2.18
2024	3.89	29.40	36.40	0.05	4.07	2.03
Maximum Daily Emissions	**50.00**	**54.10**	**74.00**	**0.09**	**6.07**	**3.49**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 4.1.

4.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project would result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions are expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

- On-Site Cargo Handling Equipment Emissions

4.5.1 AREA SOURCE EMISSIONS

ARCHITECTURAL COATINGS

Over a period of time the buildings that are part of this Project would require maintenance and would therefore produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. The emissions associated with architectural coatings were calculated using CalEEMod.

CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

4.5.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

4.5.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Gateway South 9 Warehouse Traffic Scope* were utilized in this analysis (34).

APPROACH FOR ANALYSIS OF THE PROJECT

In order to determine emissions from passenger car vehicles, CalEEMod defaults for trip length and trip purpose were utilized (37). Default vehicle trip lengths for primary trips will be populated

using data from the local metropolitan planning organizations/Regional Transportation Planning Agencies (MPO/RTPA). Trip type percentages and trip lengths provided by MPO/RTPAs truncate data at their demonstrative borders.

For the proposed industrial uses, it is important to note that although the *Gateway South 9 Warehouse Traffic Scope* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[4] & LDT2[5]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix in Table 4-6 was utilized.

TABLE 4-6: PASSENGER CAR FLEET MIX

Land Use	% Vehicle Type				
	LDA	LDT1	LDT2	MDV	MCY
High-Cube Transload and Short-Term Warehouse	56.23%	4.67%	22.39%	14.70%	2.01%

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated SCAQMD recommended truck trip length 15.3 miles for 2-axle (LHDT1, LHDT2) trucks, 14.2 miles 3-axle (MHDT) trucks and 39.9 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *Gateway South 9 Warehouse Traffic Scope*. The trip length function for the high-cube transload and short-term warehouse use has been calculated to 29.87 miles and an assumption of 100% primary trips. This trip length assumption is higher than the CalEEMod defaults for trucks. In order to be consistent with the *Gateway South 9 Warehouse Traffic Scope*, trucks are broken down by truck type. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided in the *Gateway South 9 Warehouse Traffic Scope*. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[6] & LHDT2 [7])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the following fleet mix was utilized in this analysis.

TABLE 4-7: TRUCK FLEET MIX

Land Use	% Vehicle Type			
	LHDT1	LHDT2	MHDT	HHDT
High-Cube Transload and Short-Term Warehouse	13.42%	3.62%	22.73%	60.23%

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative

[4] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[5] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

[6] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[7] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

to the total number of truck trips.

FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of brake and tire wear particulates. The emissions estimate for travel on paved roads were calculated using CalEEMod.

4.5.4 ON-SITE CARGO HANDLING EQUIPMENT SOURCE EMISSIONS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this particular Project, on-site modeled operational equipment includes up to one (1) 175 horsepower (hp), natural gas-powered cargo handling equipment – port tractor operating at 4 hours a day[8] for 365 days of the year.

4.5.5 OPERATIONAL EMISSIONS SUMMARY

As previously stated, CalEEMod utilizes summer and winter EMFAC2021 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. The estimated operational-source emissions are summarized on Table 4-8. It should be noted that the existing development emissions were subtracted from the Project operational emissions to determine the new emissions from the proposed Project. Detailed operation model outputs for the Project are presented in Appendix 4.2. As shown on Table 4-8, the Project's daily regional emissions from on-going operations would not exceed the thresholds of significance for emissions of any criteria pollutant.

[8] Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

TABLE 4-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS

Source	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
Mobile Source	1.77	4.60	17.10	0.06	1.54	0.34
Area Source	12.40	0.15	17.30	0.00	0.02	0.03
Energy Source	0.00	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Handling Equipment	0.12	0.38	16.44	0.00	0.03	0.03
Project Maximum Daily Emissions	**14.29**	**5.13**	**50.84**	**0.06**	**1.59**	**0.40**
Existing	*3.06*	*9.33*	*9.86*	*0.06*	*1.14*	*0.38*
Total Maximum Daily Emissions	**11.23**	**-4.20**	**40.98**	**0.00**	**0.45**	**0.02**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	1.67	4.85	14.70	0.05	1.54	0.34
Area Source	9.56	0.00	0.00	0.00	0.00	0.00
Energy Source	0.00	0.00	0.00	0.00	0.00	0.00
On-Site Cargo Handling Equipment	0.12	0.38	16.44	0.00	0.03	0.03
Project Maximum Daily Emissions	**11.35**	**5.23**	**31.14**	**0.05**	**1.57**	**0.37**
Existing	*2.43*	*9.69*	*6.01*	*0.06*	*1.13*	*0.37*
Total Maximum Daily Emissions	**8.92**	**-4.46**	**25.13**	**-0.01**	**0.44**	**0.00**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 4.2.

4.6 LOCALIZED SIGNIFICANCE

BACKGROUND ON LST DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[9]. LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (38).

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is the SCAQMD Central San Bernardino 2 (SRA 34). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- Identify the maximum daily on-site emissions that would occur during construction activity:
    - The maximum daily on-site emissions could be based on information provided by the Project Applicant; or
    - The SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* can be used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod (39) (40).
- If the total acreage disturbed is less than or equal to 5 acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in lbs/day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than 5 acres per day, then LST impacts may still be conservatively evaluated using the LST look-up tables for a 5-acre disturbance area. Use of the 5-acre disturbance area thresholds can be used to show that even if the daily emissions from all construction activity were emitted within a 5-acre area, and therefore concentrated over a smaller area which would result in greater site adjacent concentrations, the impacts would still be less than significant if the applicable 5-acre thresholds are utilized.
- The *LST Methodology* presents mass emission rates for each SRA, project sizes of 1, 2, and 5 acres, and nearest receptor distances of 25, 50, 100, 200, and 500 meters. For project sizes between the

[9] The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "…equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

values given, or with receptors at distances between the given receptors, the methodology uses linear interpolation to determine the thresholds.

EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO_X, CO, $PM_{2.5}$, and PM_{10}. The *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (41)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

MAXIMUM DAILY DISTURBED-ACREAGE

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 4-9). The equipment-specific grading rates are summarized in the SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (39) (42). The disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Based on Table 4-9, the Project's construction activities could actively disturb approximately 1.0 acre per day during demolition and 5.5 acres per day during grading activities.

TABLE 4-9: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Activity	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Demolition	Rubber Tired Dozers	2	0.5	8	1.0
Total acres disturbed per day during Demolition					1.0
Grading	Crawler Tractors	3	0.5	8	1.5
	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	3	1.0	8	3.0
Total acres disturbed per day during Grading					5.5

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 4.1.

RECEPTORS

As previously stated, LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors". These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time.

LSTs apply, even for non-sensitive land uses, consistent with *LST Methodology* and SCAQMD guidance. Per the *LST Methodology*, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (41)." Therefore, any adjacent land use where an individual could remain for 1 or 8-hours, that is located at a closer distance to the Project site than the receptor used for PM_{10} and $PM_{2.5}$ analysis, must be considered to determine construction and operational LST air impacts for emissions of NO_2 and CO since these pollutants have an averaging time of 1 and 8-hours.

PROJECT-RELATED RECEPTORS

Receptors in the Project study area are described below and shown on Exhibit 4-A. Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site.

R1: Location R1 represents the existing residence at 948 East Norman Road, approximately 493 feet northeast of the Project site. R1 is placed in the private outdoor living areas (backyard) facing the Project site.

R2: Location R2 represents the existing residence at 1031 Hope Street, approximately 1,033 feet northeast of the Project site. R2 is placed in the private outdoor living areas (backyard) facing the Project site.

R3: Location R3 represents the existing residence at 755 East Orange Show Road, approximately 148 feet south of the Project site. R3 is placed in the private outdoor living areas (backyard) facing the Project site.

R4: Location R4 represents the existing residence at 514 East Norman Road, approximately 1,190 feet northwest of the Project site. R4 is placed in the private outdoor living areas (backyard) facing the Project site.

R5: Location R5 represents the existing truck yard at 895 East Norman Road, located immediately adjacent to the eastern portion of the site boundary.

EXHIBIT 4-A: RECEPTOR LOCATIONS



The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual a cumulatively significant impact. The nearest land use where an individual could remain for 24 hours to the Project site has been used to determine localized construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$ (since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time). The nearest receptors used for evaluation of localized impacts of PM_{10} and $PM_{2.5}$ are the existing residences at 755 East Orange Show Road, represented by R3, approximately 148 feet (45 meters) south of the Project site. As such a 45-meter receptor distance will be used for evaluation of localized PM_{10} and $PM_{2.5}$.

As previously stated, and consistent with *LST Methodology*, the nearest commercial/industrial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_X and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assumed that an individual could be present at these sites for periods of one to 8 hours. The nearest receptors used for evaluation of localized NO_X and CO is the existing truck yard at 895 East Norman Road, located immediately adjacent (less than 25 meters) to the eastern portion of the site boundary. It should be noted that the *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (43)." As such a 25-meter receptor distance will be used for evaluation of NO_X and CO.

4.7 CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

4.7.1 LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

As previously stated, the total acreage disturbed is 1.0 acre per day for demolition and 5.5 acres per day grading activities. This analysis relies on the SCAQMD's screening look-up tables to determine impacts. It should be noted that since the look-up tables identify thresholds at only 1 acre, 2 acres, and 5 acres, in order to use linear regression to determine localized significance thresholds, this analysis assumes that up to 5 acres can be disturbed during grading activities. This approach is conservative as it assumes that all on-site emissions associated with the Project would occur within a concentrated 5-acre area. This screening method would therefore over-predict potential localized impacts, because by assuming that on-site construction activities are occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during construction are used as a screening tool to determine if further detailed analysis is required. Consistent with SCAQMD guidance, the thresholds presented in Table 4-10 were calculated by interpolating the threshold values for the Project's disturbed acreage.

TABLE 4-10: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS

Construction Activity	Construction Localized Thresholds			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Demolition	118 lbs/day	667 lbs/day	11 lbs/day	5 lbs/day
Grading	287 lbs/day	1,875 lbs/day	38 lbs/day	10 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD Final LST Methodology, July 2008

4.7.2 CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

IMPACTS WITHOUT MITIGATION

Table 4-11 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Without mitigation, localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criterial pollutant. Outputs from the model runs for unmitigated construction LSTs are provided in Appendix 4.1.

TABLE 4-11: LOCALIZED CONSTRUCTION-SOURCE EMISSIONS – WITHOUT MITIGATION

Construction Activity	Year	Scenario	Emissions (lbs/day)			
			NO_X	CO	PM_{10}	$PM_{2.5}$
Demolition	2023	Summer	28.20	71.60	2.40	1.64
		Winter	n/a	n/a	n/a	n/a
		Maximum Daily Emissions	**28.20**	**71.60**	**2.40**	**1.64**
		SCAQMD Localized Threshold	118	667	11	5
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
Grading	2023	Summer	53.80	42.50	5.65	3.39
		Winter	n/a	n/a	n/a	n/a
		Maximum Daily Emissions	**53.80**	**42.50**	**5.65**	**3.39**
		SCAQMD Localized Threshold	287	1,875	38	10
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod unmitigated localized construction-source emissions are presented in Appendix 4.1.

4.8 OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

As previously stated, the Project is located on an approximately 18.43-acre parcel. As noted previously, the *LST Methodology* provides look-up tables for sites with an area with daily disturbance of 5 acres or less. For projects that exceed 5 acres, the 5-acre LST look-up tables can be used as a screening tool to determine whether pollutants require additional detailed analysis. This approach is conservative as it assumes that all on-site emissions associated with the Project would occur within a concentrated 5-acre area. This screening method would therefore over-predict potential localized impacts, because by assuming that on-site operational activities are

occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required.

The LST analysis generally includes on-site sources (area, energy, mobile, on-site cargo handling equipment, and stationary equipment – are previously discussed in Section 4.5 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. As such, in an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 4-13 represent all on-site Project-related stationary (area) sources and Project-related mobile sources. It should be noted that the longest on-site distance is roughly 0.75 mile for both trucks and passenger cars. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

4.8.1 LOCALIZED THRESHOLDS FOR OPERATIONAL ACTIVITY

As previously stated, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required.

TABLE 4-12: MAXIMUM DAILY LOCALIZED OPERATIONAL EMISSIONS THRESHOLDS

Operational Localized Thresholds			
NO_X	CO	PM_{10}	$PM_{2.5}$
270 lbs/day	1,746lbs/day	10 lbs/day	3 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD Final LST Methodology, July 2008

4.8.2 OPERATIONAL-SOURCE LOCALIZED EMISSIONS

IMPACTS WITHOUT MITIGATION

As shown on Table 4-13 operational emissions would not exceed the LST thresholds for the nearest sensitive receptor. Therefore, the Project would have a less than significant localized impact during operational activity for both land uses.

TABLE 4-13: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

Scenario	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Summer	1.90	38.60	0.18	0.09
Winter	1.82	21.61	0.16	0.06
Maximum Daily Emissions	**1.90**	**38.60**	**0.18**	**0.09**
SCAQMD Localized Threshold	270	1,746	10	3
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

4.9 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 4-14.

TABLE 4-14: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Boulevard/Veteran Avenue	4.6	3.5	3.7
Sunset Boulevard/Highland Avenue	4	4.5	3.5
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.2
Long Beach Boulevard/Imperial Highway	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations
Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (*1992 CO Plan*), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (44). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 0.9 ppm and 0.7 ppm, respectively (data from Elsinore Valley station for 2020). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (45). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 4-15. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (44). The *2003 AQMP* estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)[10].

[10] Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

TABLE 4-15: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Boulevard/Veteran Avenue	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Boulevard/Highland Avenue	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Boulevard/Century Boulevard	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Boulevard/Imperial Highway	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

Source: 2003 AQMP

4.10 AQMP

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the SCAQMD released the *Final 2016 AQMP* (*2016 AQMP*). The *2016 AQMP* continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (46). Similar to the 2012 AQMP, the *2016 AQMP* incorporates scientific and technological information and planning assumptions, including the *2016-2040 Regional Transportation Plan/Sustainable Communities Strategy* (*2016-2040 RTP/SCS*), a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (19). The Project's consistency with the AQMP will be determined using the *2016 AQMP* as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (47). These indicators are discussed below:

4.10.1 CONSISTENCY CRITERION NO. 1

The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refer to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if localized or regional significance thresholds were exceeded. As evaluated, the Project's localized and regional construction-source emissions would not exceed applicable regional significance threshold and LST thresholds after implementation of MM AQ-1. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

As evaluated, the Project's localized and regional operation-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the Project is determined to be consistent with the first criterion.

4.10.2 CONSISTENCY CRITERION NO. 2

The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

The *2016 AQMP* demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of San Bernardino General Plan is considered to be consistent with the AQMP***.***

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

Operational Impacts – Consistency Criterion 2

The Project site is designated for Light Industrial uses. Variety of light industrial uses, including warehousing/distribution, assembly, light manufacturing, research and development, mini storage, and repair facilities conducted within enclosed structures as well as supporting retail and personal uses (48). The Project to consist of a single 397,400 square foot (sf) high-cube transload and short-term warehouse building, which is consistent with the proposed uses allowed under the light industrial designation and therefore, the Project does not propose or require amendment of the site's underlying land use designation

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP CONSISTENCY CONCLUSION

The Project would not result in or cause NAAQS or CAAQS violations. Additionally, the proposed Project is consistent with the land use and growth intensities reflected in the adopted General Plan. Furthermore, the Project would not exceed any applicable regional or local thresholds. As such, the Project is therefore considered to be consistent with the AQMP.

4.11 TOXIC AIR CONTAMINANTS

CONSTRUCTION AND OPERATIONAL

Based on the results of the *Rider & Patterson Business Center Health Risk Assessment* (49), emissions generated from the Project during short-term construction and long-term operation will not exceed SCAQMD significance thresholds for cancer and non-cancer health risks. As such, a less than significant impact is expected.

4.12 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project would not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, the Project would not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO "hotspot." Lastly, the Project will not exceed SCAQMD significance thresholds for cancer and non-cancer health risks during construction and operational activity. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

4.12.1 FRIANT RANCH CASE

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, the California Supreme Court held that an Environmental Impact Report's (EIR) air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

Most local agencies, including the County of Riverside, lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally-specific thresholds of significance based on potential health impacts from an individual development project. The use of national or "generic" data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of other allergens and genetics in causing asthma), existing scientific tools cannot accurately estimate health impacts of the Project's air emissions without undue speculation. Instead, readers are directed to the Project's air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project's construction and long-term operation.

Notwithstanding, this AQIA does evaluate the proposed Project's localized impact to air quality for emissions of CO, NO_X, PM_{10}, and $PM_{2.5}$ by comparing the proposed project's on-site emissions to the SCAQMD's applicable LST thresholds. The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO_X, PM_{10}, and $PM_{2.5}$.

As the Project's emissions would comply with federal, state, and local air quality standards, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level and would not provide a reliable indicator of health effects if modeled.

4.13 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction

activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with current solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors and other emissions (such as those leading to odors) associated with construction and operations activities of the proposed Project would be less than significant and no mitigation is required (50).

4.14 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O_3 PM_{10}, and $PM_{2.5}$ while the NAAQS designates the Project site as nonattainment for O_3 and $PM_{2.5}$.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (51). In this report the SCAQMD clearly states (Page D-3):

> *"…the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*
>
> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

CONSTRUCTION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project construction-source emissions would be considered less than significant on a Project-specific and cumulative basis.

OPERATIONAL IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project operation-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project operation-source emissions would be considered less than significant on a project-specific and cumulative basis.

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6 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Gateway South 9 Warehouse. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, 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 ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone 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 PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, 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. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that 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.

12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$)as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1


2020
Area Designations for State
Ambient Air Quality Standards
OZONE
N
0
50
100
150
200
Miles
Del Norte
Siskiyou
Modoc
NORTH COAST
NORTHEAST PLATEAU
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Sutter Buttes
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Yuba
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Kings
Tulare
Inyo
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Unclassified
Attainment
Nonattainment-Transitional
Nonattainment
Air Basin
County
Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 1

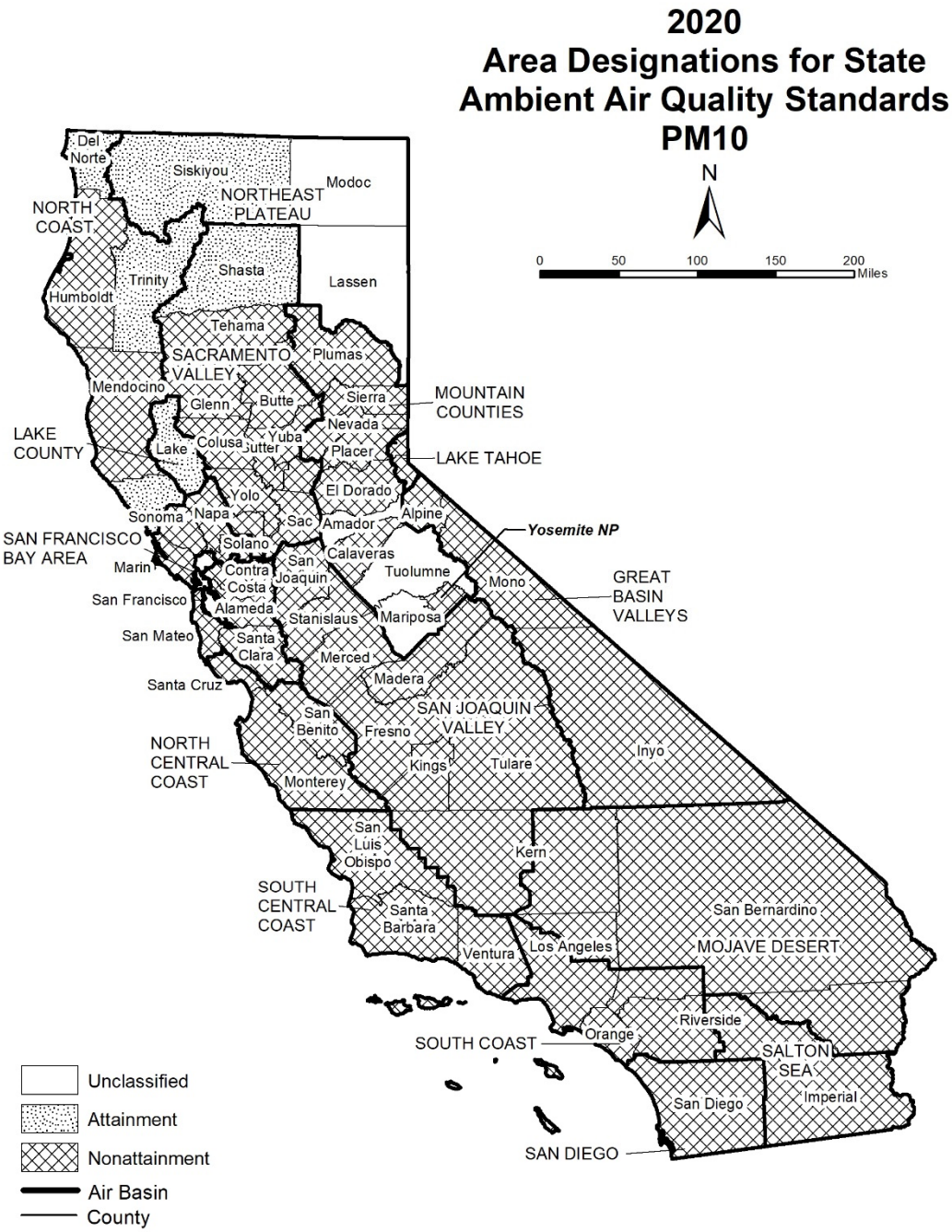
California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			X	
Inyo County	X			
Mono County	X			
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN				X
MOJAVE DESERT AIR BASIN	X			
MOUNTAIN COUNTIES AIR BASIN				
Amador County		X		
Calaveras County	X			
El Dorado County (portion)	X			
Mariposa County	X			
Nevada County	X			
Placer County (portion)	X			
Plumas County			X	
Sierra County			X	
Tuolumne County	X			
NORTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN				X

	N	NA-T	U	A
NORTHEAST PLATEAU AIR BASIN				X
SACRAMENTO VALLEY AIR BASIN				
Colusa and Glenn Counties				X
Shasta County		X		
Sutter/Yuba Counties				
Sutter Buttes	X			
Remainder of Sutter County	X			
Yuba County	X			
Yolo/Solano Counties		X		
Remainder of Air Basin	X			
SALTON SEA AIR BASIN	X			
SAN DIEGO AIR BASIN	X			
SAN FRANCISCO BAY AREA AIR BASIN	X			
SAN JOAQUIN VALLEY AIR BASIN	X			
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County	X			
Santa Barbara County	X			
Ventura County	X			
SOUTH COAST AIR BASIN	X			

[1] AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM_{10})

	N	U	A
GREAT BASIN VALLEYS AIR BASIN	X		
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN	X		
MOJAVE DESERT AIR BASIN	X		
MOUNTAIN COUNTIES AIR BASIN			
Amador County		X	
Calaveras County	X		
El Dorado County (portion)	X		
Mariposa County			
- Yosemite National Park	X		
- Remainder of County		X	
Nevada County	X		
Placer County (portion)	X		
Plumas County	X		
Sierra County	X		
Tuolumne County		X	

	N	U	A
NORTH CENTRAL COAST AIR BASIN	X		
NORTH COAST AIR BASIN			
Del Norte, Sonoma (portion) and Trinity Counties			X
Remainder of Air Basin	X		
NORTHEAST PLATEAU AIR BASIN			
Siskiyou County			X
Remainder of Air Basin		X	
SACRAMENTO VALLEY AIR BASIN			
Shasta County			X
Remainder of Air Basin	X		
SALTON SEA AIR BASIN	X		
SAN DIEGO AIR BASIN	X		
SAN FRANCISCO BAY AREA AIR BASIN	X		
SAN JOAQUIN VALLEY AIR BASIN	X		
SOUTH CENTRAL COAST AIR BASIN	X		
SOUTH COAST AIR BASIN	X		

FIGURE 3


2020
Area Designations for State
Ambient Air Quality Standards
PM2.5
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
Portola Valley
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Sutter
Yuba
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
Inyo
NORTH CENTRAL COAST
Kings
Tulare
Monterey
San Luis Obispo
Kern
County Portion of Federal Ozone AQMA
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Calexico
Unclassified
Attainment
Nonattainment
Air Basin
County
Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			
San Bernardino County			
- County portion of federal Southeast Desert Modified AQMA for Ozone[1]			X
Remainder of Air Basin			X
MOUNTAIN COUNTIES AIR BASIN			
Plumas County			
- Portola Valley[2]	X		
Remainder of Air Basin		X	
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			
Butte County	X		
Colusa County			X
Glenn County			X
Placer County (portion)			X
Sacramento County			X
Shasta County			X
Sutter and Yuba Counties			X
Remainder of Air Basin		X	

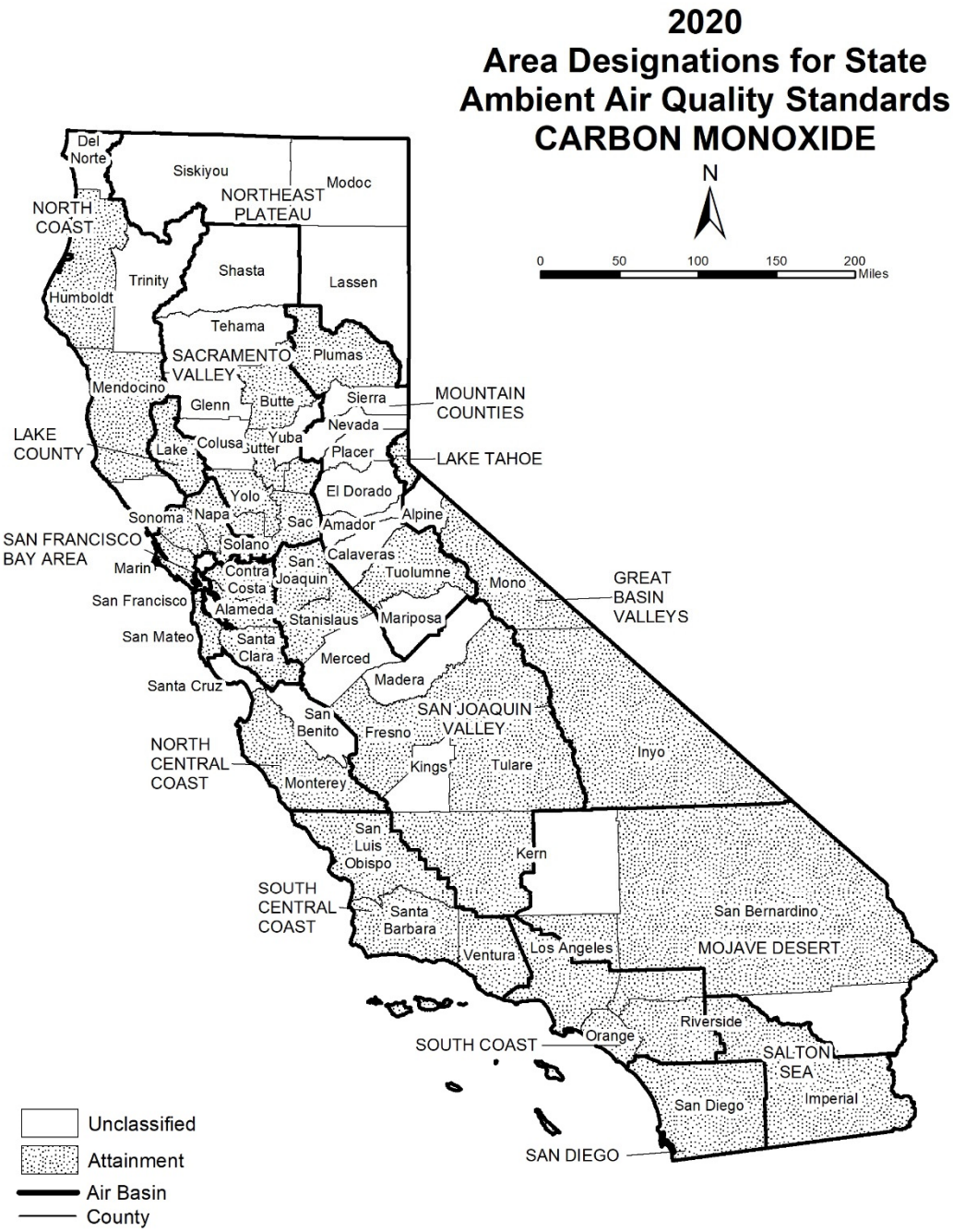
	N	U	A
SALTON SEA AIR BASIN			
Imperial County			
- City of Calexico[3]	X		
Remainder of Air Basin			X
SAN DIEGO AIR BASIN	X		
SAN FRANCISCO BAY AREA AIR BASIN	X		
SAN JOAQUIN VALLEY AIR BASIN	X		
SOUTH CENTRAL COAST AIR BASIN			
San Luis Obispo County			X
Santa Barbara County		X	
Ventura County			X
SOUTH COAST AIR BASIN	X		

[1] California Code of Regulations, title 17, section 60200(b)

[2] California Code of Regulations, title 17, section 60200(c)

[3] California Code of Regulations, title 17, section 60200(a)

FIGURE 4



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			X	
Inyo County				X
Mono County				X
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN				X
MOJAVE DESERT AIR BASIN				
Kern County (portion)			X	
Los Angeles County (portion)				X
Riverside County (portion)			X	
San Bernardino County (portion)				X
MOUNTAIN COUNTIES AIR BASIN				
Amador County			X	
Calaveras County			X	
El Dorado County (portion)			X	
Mariposa County			X	
Nevada County			X	
Placer County (portion)			X	
Plumas County				X
Sierra County			X	
Tuolumne County				X
NORTH CENTRAL COAST AIR BASIN				
Monterey County				X
San Benito County			X	
Santa Cruz County			X	
NORTH COAST AIR BASIN				
Del Norte County			X	
Humboldt County				X
Mendocino County				X
Sonoma County (portion)			X	
Trinity County			X	
NORTHEAST PLATEAU AIR BASIN			X	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN				
Butte County				X
Colusa County			X	
Glenn County			X	
Placer County (portion)				X
Sacramento County				X
Shasta County			X	
Solano County (portion)				X
Sutter County				X
Tehama County			X	
Yolo County				X
Yuba County			X	
SALTON SEA AIR BASIN				X
SAN DIEGO AIR BASIN				X
SAN FRANCISCO BAY AREA AIR BASIN				X
SAN JOAQUIN VALLEY AIR BASIN				
Fresno County				X
Kern County (portion)				X
Kings County			X	
Madera County			X	
Merced County			X	
San Joaquin County				X
Stanislaus County				X
Tulare County				X
SOUTH CENTRAL COAST AIR BASIN				X
SOUTH COAST AIR BASIN				X

* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 5

California Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			X
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			
CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
Remainder of Air Basin			X

FIGURE 6



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOJAVE DESERT AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	N	A
SACRAMENTO VALLEY AIR BASIN		X
SALTON SEA AIR BASIN		X
SAN DIEGO AIR BASIN		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X

* The area designated for sulfur dioxide is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 7



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X

	N	U	A
SACRAMENTO VALLEY AIR BASIN			X
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			X

FIGURE 8



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 8

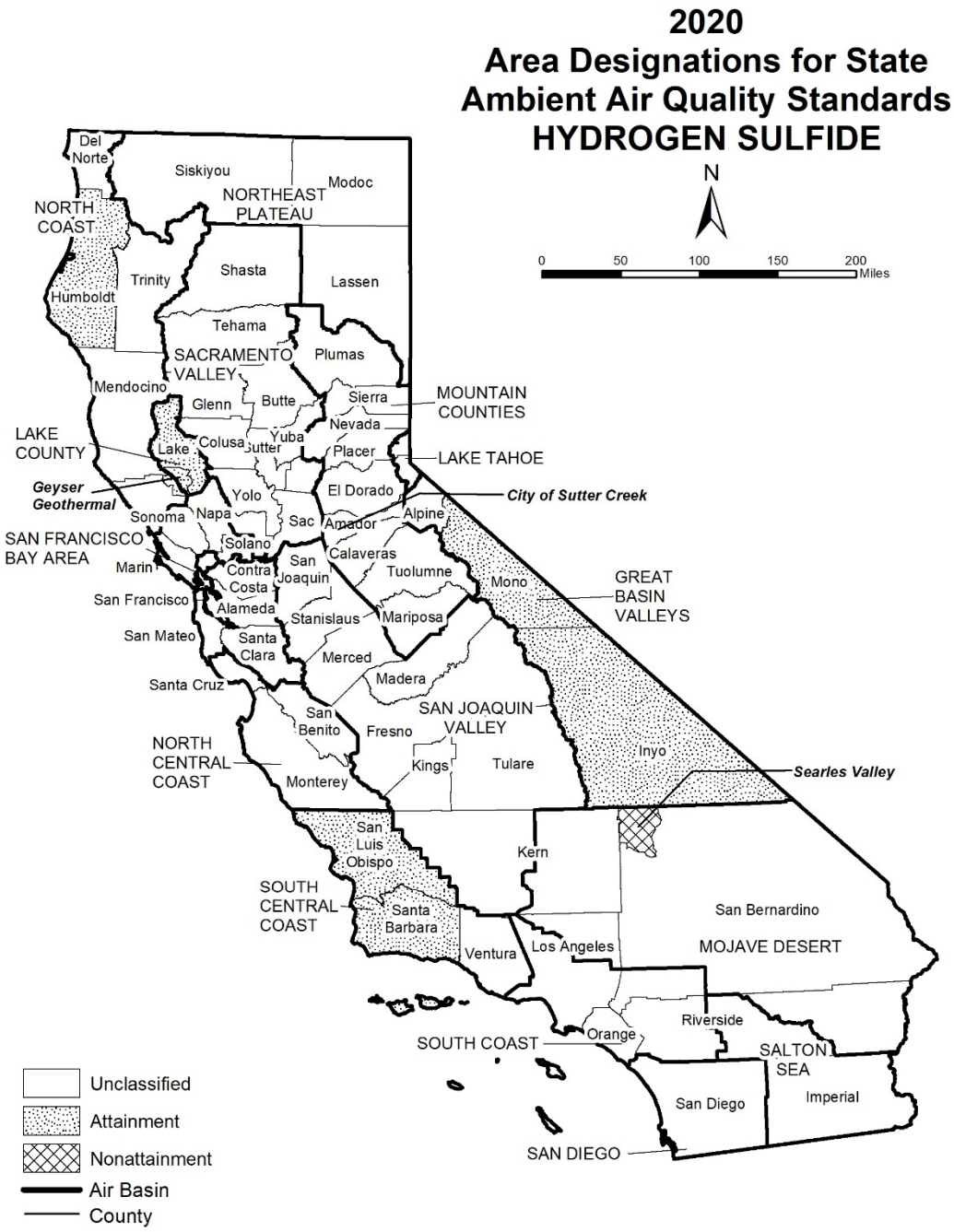
California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			X

	N	U	A
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			X

* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			X	
Inyo County				X
Mono County				X
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN			X	
MOJAVE DESERT AIR BASIN				
Kern County (portion)			X	
Los Angeles County (portion)			X	
Riverside County (portion)			X	
San Bernardino County (portion)				
- Searles Valley Planning Area[1]	X			
- Remainder of County			X	
MOUNTAIN COUNTIES AIR BASIN				
Amador County				
- City of Sutter Creek	X			
- Remainder of County			X	
Calaveras County			X	
El Dorado County (portion)			X	
Mariposa County			X	
Nevada County			X	
Placer County (portion)			X	
Plumas County			X	
Sierra County			X	
Tuolumne County			X	

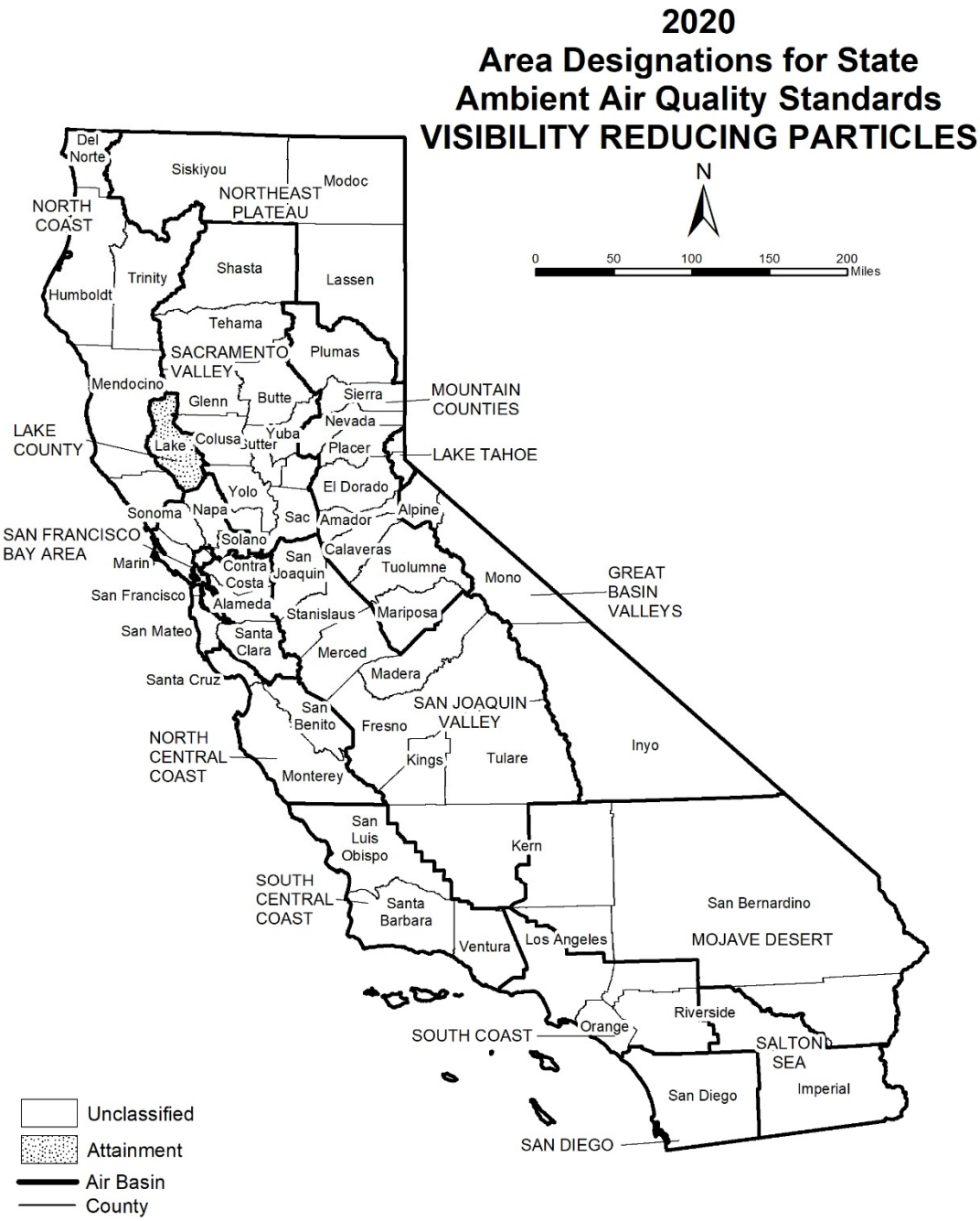
	N	NA-T	U	A
NORTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN				
Del Norte County			X	
Humboldt County				X
Mendocino County			X	
Sonoma County (portion)				
- Geyser Geothermal Area[2]				X
- Remainder of County			X	
Trinity County			X	
NORTHEAST PLATEAU AIR BASIN			X	
SACRAMENTO VALLEY AIR BASIN			X	
SALTON SEA AIR BASIN			X	
SAN DIEGO AIR BASIN			X	
SAN FRANCISCO BAY AREA AIR BASIN			X	
SAN JOAQUIN VALLEY AIR BASIN			X	
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County				X
Santa Barbara County				X
Ventura County			X	
SOUTH COAST AIR BASIN			X	

* The area designated for hydrogen sulfide is a county or portion of a county

[1] 52 Federal Register 29384 (August 7, 1987)

[2] California Code of Regulations, title 17, section 60200(d)

FIGURE 10



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X	
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN			X	
SALTON SEA AIR BASIN			X	
SAN DIEGO AIR BASIN			X	
SAN FRANCISCO BAY AREA AIR BASIN			X	
SAN JOAQUIN VALLEY AIR BASIN			X	
SOUTH CENTRAL COAST AIR BASIN			X	
SOUTH COAST AIR BASIN			X	

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

- Attainment (A)
- Nonattainment (N)
- Unclassifiable (U)

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment (N)
- Unclassifiable/Attainment (U/A)

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Area designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary $PM_{2.5}$ standard of 12.0 µg/m^3. Area designations were finalized in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 µg/m^3 as well as the 24-hour standard of 35 µg/m^3, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment (N),
- Unclassifiable (U), and
- Unclassifiable/Attainment (U/A).

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305

FIGURE 11



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 11

National Ambient Air Quality Standards
Area Designations for 8-Hour Ozone*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		
Amador County	X	
Calaveras County	X	
El Dorado County (portion)[1]	X	
Mariposa County	X	
Nevada County		
- Western Nevada County	X	
- Remainder of County		X
Placer County (portion)[1]	X	
Plumas County		X
Sierra County		X
Tuolumne County	X	
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		
Butte County	X	
Colusa County		X
Glenn County		X
Sacramento Metro Area[1]	X	
Shasta County		X
Sutter County		
- Sutter Buttes	X	
- Southern portion of Sutter County[1]	X	
- Remainder of Sutter County		X
Tehama County		
- Tuscan Buttes	X	
- Remainder of Tehama County		X

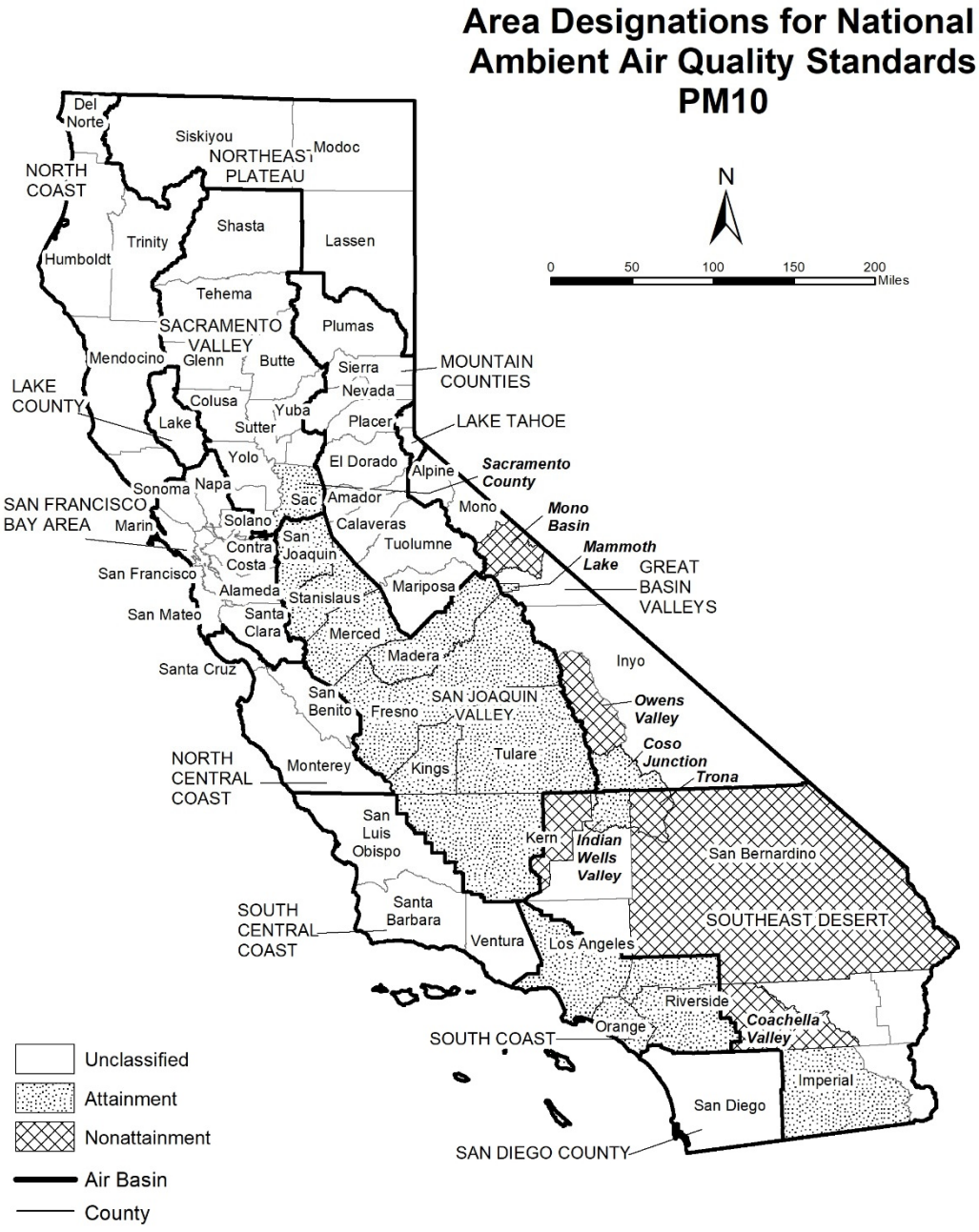
	N	U/A
SACRAMENTO VALLEY AIR BASIN (cont.)		
Yolo County[1]	X	
Yuba County		X
SAN DIEGO COUNTY	X	
SAN FRANCISCO BAY AREA AIR BASIN	X	
SAN JOAQUIN VALLEY AIR BASIN	X	
SOUTH CENTRAL COAST AIR BASIN[2]		
San Luis Obispo County		
- Eastern San Luis Obispo County	X	
- Remainder of County		X
Santa Barbara County		X
Ventura County		
- Area excluding Anacapa and San Nicolas Islands	X	
- Channel Islands[2]		X
SOUTH COAST AIR BASIN[2]	X	
SOUTHEAST DESERT AIR BASIN		
Kern County (portion)	X	
- Indian Wells Valley		X
Imperial County	X	
Los Angeles County (portion)	X	
Riverside County (portion)		
- Coachella Valley	X	
- Non-AQMA portion		X
San Bernardino County		
- Western portion (AQMA)	X	
- Eastern portion (non-AQMA)		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

[1] For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

[2] South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.
South Coast Air Basin:
Los Angeles County includes San Clemente and Santa Catalina Islands.

FIGURE 12



Source Date:
October 2020
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM_{10})*

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			
Alpine County		X	
Inyo County			
- Owens Valley Planning Area	X		
- Coso Junction			X
- Remainder of County		X	
Mono County			
- Mammoth Lake Planning Area			X
- Mono Lake Basin	X		
- Remainder of County		X	
LAKE COUNTY AIR BASIN		X	
LAKE TAHOE AIR BASIN		X	
MOUNTAIN COUNTIES AIR BASIN			
Placer County (portion)[1]		X	
Remainder of Air Basin		X	
NORTH CENTRAL COAST AIR BASIN		X	
NORTH COAST AIR BASIN		X	
NORTHEAST PLATEAU AIR BASIN		X	
SACRAMENTO VALLEY AIR BASIN			
Butte County		X	
Colusa County		X	
Glenn County		X	
Placer County (portion)[1]		X	
Sacramento County[2]			X
Shasta County		X	
Solano County (portion)		X	
Sutter County		X	
Tehama County		X	
Yolo County		X	
Yuba County		X	

	N	U	A
SAN DIEGO COUNTY		X	
SAN FRANCISCO BAY AREA AIR BASIN		X	
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN		X	
SOUTH COAST AIR BASIN			X
SOUTHEAST DESERT AIR BASIN			
Eastern Kern County			
- Indian Wells Valley			X
- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X	
Imperial County			
- Imperial Valley Planning Area[3]			X
- Remainder of County		X	
Los Angeles County (portion)		X	
Riverside County (portion)			
- Coachella Valley[4]	X		
- Non-AQMA portion		X	
San Bernardino County			
- Trona	X		
- Remainder of County	X		

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

[1] U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.

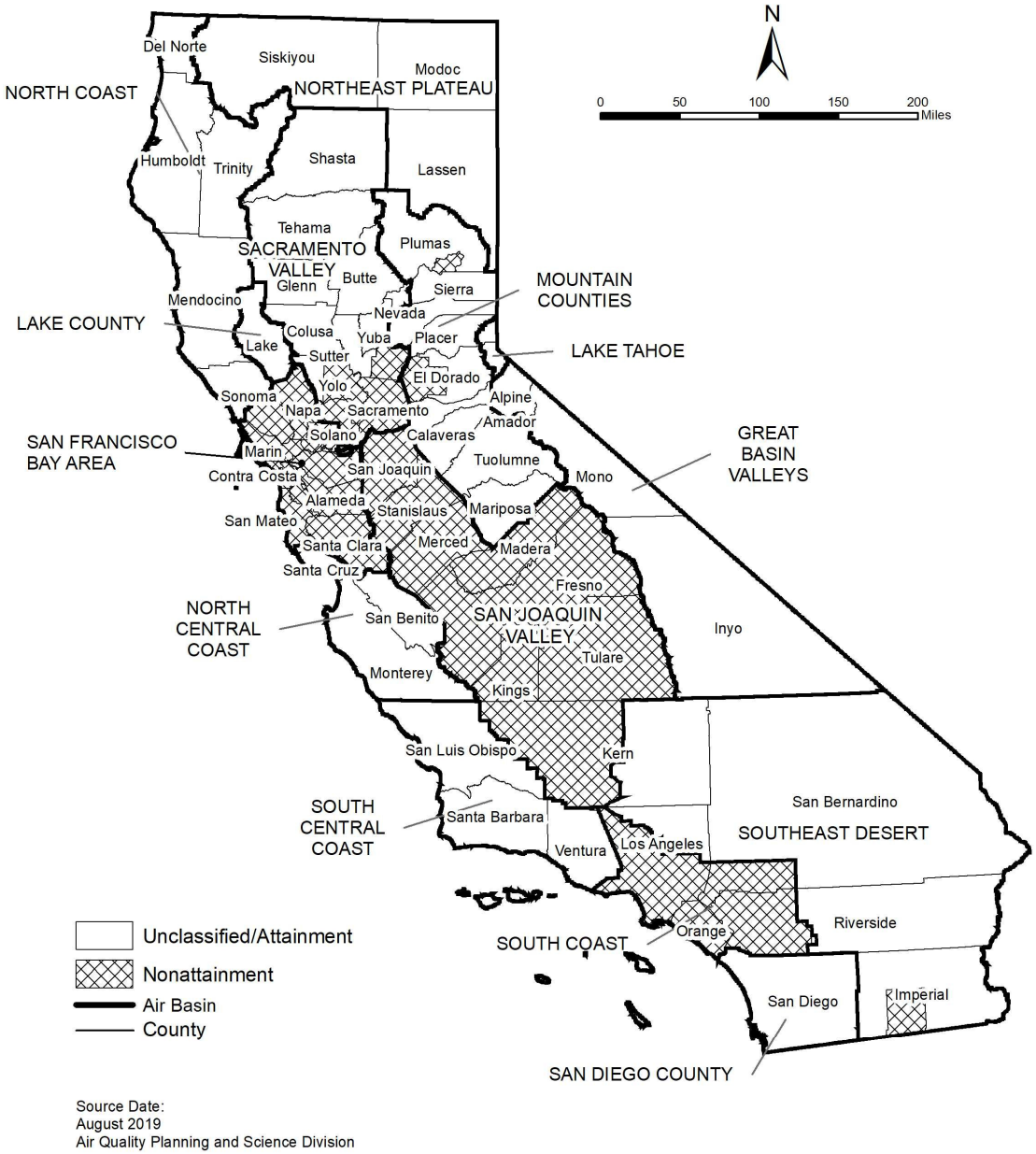
[2] Air quality in Sacramento County meets the national PM_{10} standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

[3] The request for redesignation to attainment for the Imperial Valley Planning Area was approved by U.S. EPA and in September 2020, effective October 2020.

[4] Air quality in Coachella Valley meets the national PM_{10} standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13

Area Designations for National Ambient Air Quality Standards PM2.5



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		
Plumas County		
- Portola Valley Portion of Plumas	X	
- Remainder of Plumas County		X
Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		
Sacramento Metro Area[1]	X	
Sutter County		X
Yuba County (portion)		X
Remainder of Air Basin		X

	N	U/A
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN[2]	X	
SAN JOAQUIN VALLEY AIR BASIN	X	
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN[3]	X	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion)[4]	X	
Remainder of Air Basin		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour $PM_{2.5}$ standard as well as the 1997 and 2012 $PM_{2.5}$ annual standards.

[1] For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

[2] Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

[3] Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

[4] That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

FIGURE 14



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	N	U/A
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 15

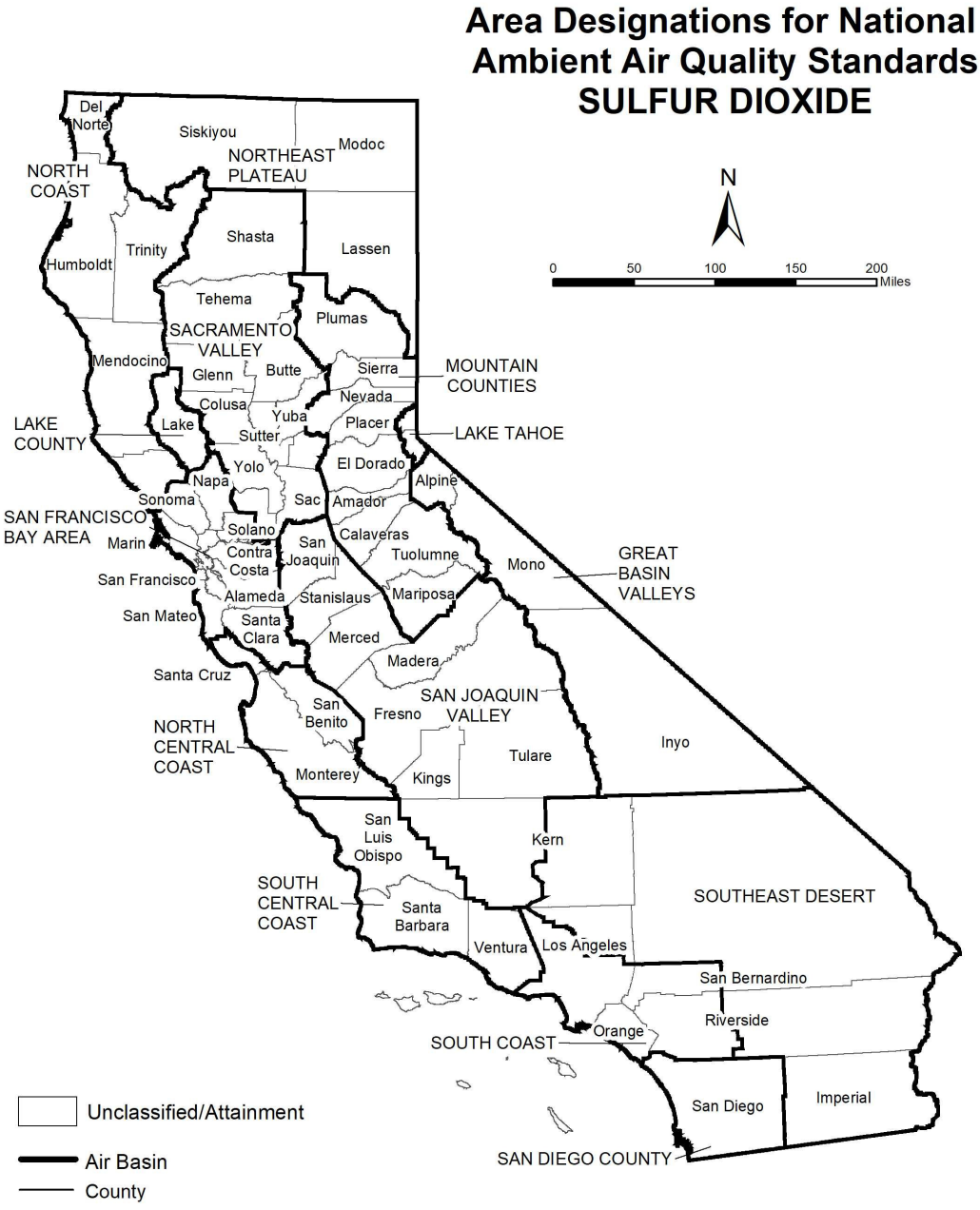
National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	N	U/A
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

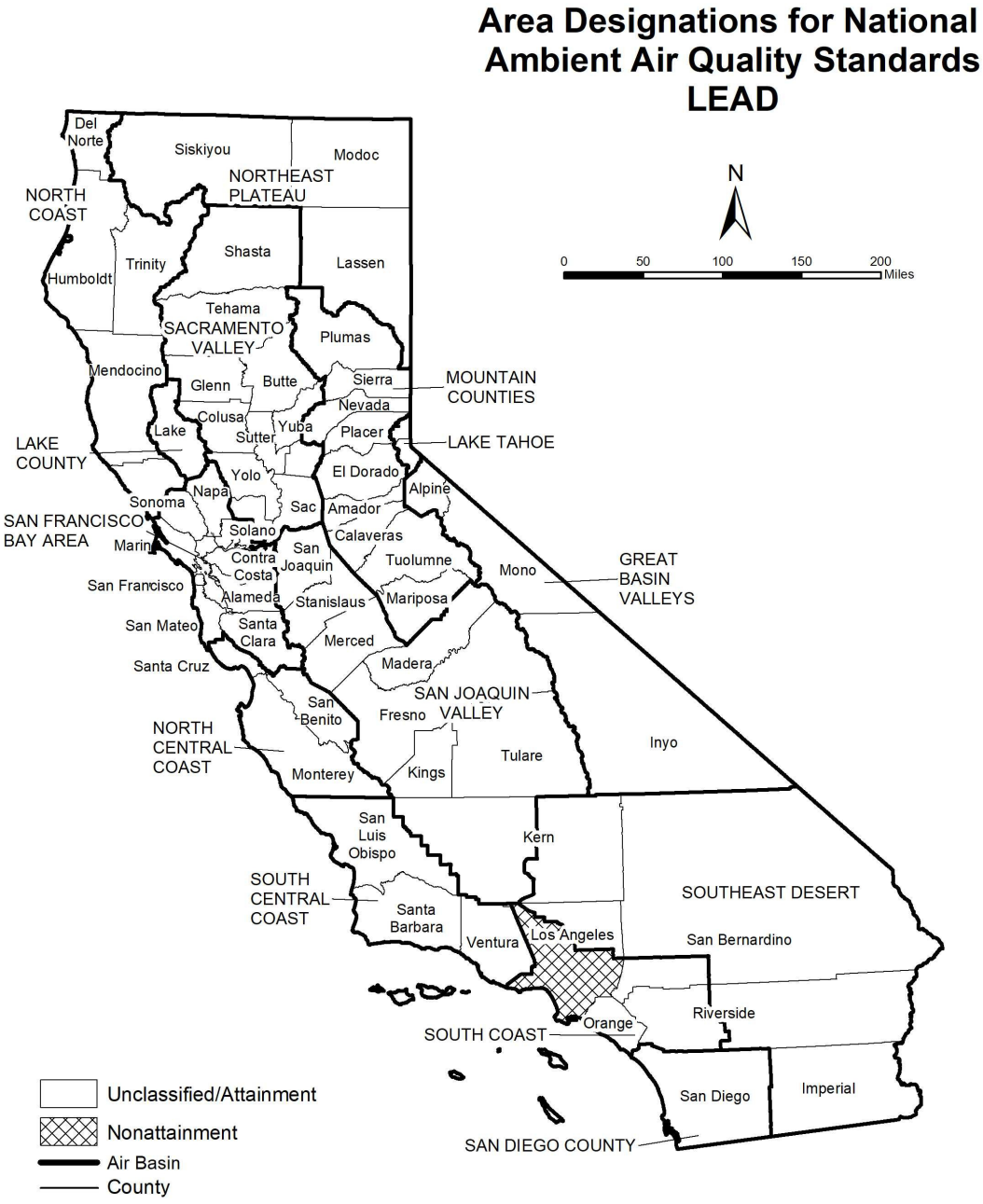
	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		
Fresno County		X
Kern County (portion)		X
Kings County		X
Madera County		X
Merced County		X
San Joaquin County		X
Stanislaus County		X
Tulare County		X

	N	U/A
SOUTH CENTRAL COAST AIR BASIN		
San Luis Obispo County		X
Santa Barbara County		X
Ventura County		X
Channel Islands[1]		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		
Imperial County		X
Remainder of Air Basin		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

[1] South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.
Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards
Area Designations for Lead (particulate)

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		X

	N	U/A
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		
Los Angeles County (portion)[1]	X	
Remainder of Air Basin		X
SOUTHEAST DESERT AIR BASIN		X

[1] Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD EXISTING OPERATIONAL EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Existing Operations) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GWS9 Warehouse (Existing Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	87.1	1000sqft	2.00	87,120	0.00	0.00	—	—
User Defined Industrial	87.1	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	716	1000sqft	16.4	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.	1.76	3.06	9.33	9.86	0.06	0.15	0.99	1.14	0.14	0.24	0.38	82.7	8,286	8,368	9.27	1.20	2,336	11,295
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.07	2.43	9.69	6.01	0.06	0.14	0.99	1.14	0.14	0.24	0.37	82.7	8,264	8,346	9.27	1.20	2,322	11,259
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	2.80	7.27	7.09	0.05	0.12	0.73	0.84	0.11	0.17	0.29	82.7	6,407	6,490	9.05	0.91	2,326	9,313
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.51	1.33	1.29	0.01	0.02	0.13	0.15	0.02	0.03	0.05	13.7	1,061	1,074	1.50	0.15	385	1,542

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	1.04	0.22	8.86	5.70	0.06	0.11	0.99	1.10	0.10	0.24	0.34	—	6,953	6,953	0.80	1.10	14.7	7,316
Area	0.67	2.82	0.03	3.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.6	15.6	< 0.005	< 0.005	—	16.0
Energy	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,117	1,117	0.08	0.01	—	1,121
Water	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Waste	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	1.76	3.06	9.33	9.86	0.06	0.15	0.99	1.14	0.14	0.24	0.38	82.7	8,286	8,368	9.27	1.20	2,336	11,295
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.02	0.21	9.25	5.64	0.06	0.11	0.99	1.10	0.10	0.24	0.34	—	6,946	6,946	0.80	1.10	0.38	7,295
Area	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,117	1,117	0.08	0.01	—	1,121
Water	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Waste	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	1.07	2.43	9.69	6.01	0.06	0.14	0.99	1.14	0.14	0.24	0.37	82.7	8,264	8,346	9.27	1.20	2,322	11,259
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.75	0.15	6.81	4.12	0.04	0.08	0.73	0.81	0.08	0.17	0.25	—	5,079	5,079	0.59	0.81	4.65	5,338
Area	0.46	2.62	0.02	2.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	11.0
Energy	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,117	1,117	0.08	0.01	—	1,121
Water	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Waste	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	1.26	2.80	7.27	7.09	0.05	0.12	0.73	0.84	0.11	0.17	0.29	82.7	6,407	6,490	9.05	0.91	2,326	9,313

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.14	0.03	1.24	0.75	0.01	0.01	0.13	0.15	0.01	0.03	0.05	—	841	841	0.10	0.13	0.77	884
Area	0.08	0.48	< 0.005	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77	1.77	< 0.005	< 0.005	—	1.82
Energy	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	185	185	0.01	< 0.005	—	186
Water	—	—	—	—	—	—	—	—	—	—	—	6.39	33.1	39.5	0.66	0.02	—	60.6
Waste	—	—	—	—	—	—	—	—	—	—	—	7.31	0.00	7.31	0.73	0.00	—	25.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	384	384
Total	0.23	0.51	1.33	1.29	0.01	0.02	0.13	0.15	0.02	0.03	0.05	13.7	1,061	1,074	1.50	0.15	385	1,542

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.08	0.07	0.03	0.63	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	122	122	0.01	< 0.005	0.48	124
User Defined Industrial	0.96	0.15	8.82	5.07	0.06	0.11	0.51	0.61	0.10	0.16	0.27	—	6,831	6,831	0.80	1.10	14.2	7,192
Other 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	1.04	0.22	8.86	5.70	0.06	0.11	0.51	0.62	0.10	0.16	0.27	—	6,953	6,953	0.80	1.10	14.7	7,316

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.07	0.07	0.04	0.53	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	112	112	0.01	< 0.005	0.01	114
User Defined Industrial	0.95	0.14	9.21	5.11	0.06	0.11	0.51	0.61	0.10	0.16	0.27	—	6,834	6,834	0.80	1.10	0.37	7,181
Other 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	1.02	0.21	9.25	5.64	0.06	0.11	0.51	0.62	0.10	0.16	0.27	—	6,946	6,946	0.80	1.10	0.38	7,295
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.01	0.01	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.02	14.0
User Defined Industrial	0.13	0.02	1.24	0.68	0.01	0.01	0.07	0.08	0.01	0.02	0.04	—	827	827	0.10	0.13	0.74	870
Other 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	0.14	0.03	1.24	0.75	0.01	0.01	0.07	0.08	0.01	0.02	0.04	—	841	841	0.10	0.13	0.77	884

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	97.1	97.1	0.01	< 0.005	—	97.5

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	97.1	97.1	0.01	< 0.005	—	97.5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532
User Defined Industrial	0.00	0.00	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 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	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532

User Defined Industrial	0.00	0.00	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 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	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	—	88.1
User Defined Industrial	0.00	0.00	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 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	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	—	88.1

4.3. Area Emissions by Source

4.3.2. 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	—	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67	0.62	0.03	3.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.6	15.6	< 0.005	< 0.005	—	16.0
Total	0.67	2.82	0.03	3.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.6	15.6	< 0.005	< 0.005	—	16.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.08	< 0.005	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77	1.77	< 0.005	< 0.005	—	1.82
Total	0.08	0.48	< 0.005	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77	1.77	< 0.005	< 0.005	—	1.82

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	6.39	33.1	39.5	0.66	0.02	—	60.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.39	33.1	39.5	0.66	0.02	—	60.6

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	7.31	0.00	7.31	0.73	0.00	—	25.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.31	0.00	7.31	0.73	0.00	—	25.6

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	384	384
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	384	384

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

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
Unrefrigerated Warehouse-No Rail	20.0	1.69	0.68	5,339	162	13.7	5.50	43,194
User Defined Industrial	133	11.3	4.50	35,496	1,922	163	65.1	512,915
Other 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	130,680	43,560	42,948

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)

Unrefrigerated Warehouse-No Rail	402,381	532	0.0330	0.0040	1,656,210
User Defined Industrial	0.00	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	532	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)
Unrefrigerated Warehouse-No Rail	20,146,500	0.00
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	81.9	0.00
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6
Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4

Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	17.46439112
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109
Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187

Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9
Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5

Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—
2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0

Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

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APPENDIX 4.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Construction) Detailed 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	GWS9 Warehouse (Construction)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	397	1000sqft	10.9	397,400	77,497	0.00	—	—
Parking Lot	288	Space	2.52	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	218	1000sqft	5.02	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.	37.7	50.0	54.1	74.0	0.09	2.57	3.49	6.07	2.37	1.12	3.49	—	9,670	9,670	0.40	0.31	14.0	9,716
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.95	4.13	31.2	37.6	0.05	1.71	2.53	4.23	1.57	0.61	2.18	—	8,125	8,125	0.40	0.31	0.36	8,227
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.91	6.13	13.9	17.9	0.02	0.75	0.99	1.74	0.68	0.25	0.93	—	3,213	3,213	0.16	0.11	1.94	3,251
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.71	1.12	2.53	3.26	< 0.005	0.14	0.18	0.32	0.12	0.05	0.17	—	532	532	0.03	0.02	0.32	538

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	37.7	36.9	54.1	74.0	0.09	2.57	3.49	6.07	2.37	1.12	3.49	—	9,670	9,670	0.40	0.31	14.0	9,716
2024	1.12	50.0	8.07	11.4	0.02	0.39	0.52	0.63	0.36	0.12	0.42	—	1,884	1,884	0.08	0.07	2.77	1,901
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.95	4.13	31.2	37.6	0.05	1.71	2.53	4.23	1.57	0.61	2.18	—	8,125	8,125	0.40	0.31	0.36	8,227
2024	4.67	3.89	29.4	36.4	0.05	1.55	2.53	4.07	1.43	0.61	2.03	—	8,067	8,067	0.39	0.31	0.34	8,168
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	3.91	3.56	13.9	17.9	0.02	0.75	0.99	1.74	0.68	0.25	0.93	—	3,213	3,213	0.16	0.11	1.94	3,251
2024	0.79	6.13	4.91	6.41	0.01	0.25	0.42	0.67	0.23	0.10	0.33	—	1,365	1,365	0.07	0.05	0.96	1,383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.71	0.65	2.53	3.26	< 0.005	0.14	0.18	0.32	0.12	0.05	0.17	—	532	532	0.03	0.02	0.32	538
2024	0.14	1.12	0.90	1.17	< 0.005	0.05	0.08	0.12	0.04	0.02	0.06	—	226	226	0.01	0.01	0.16	229

3. Construction Emissions Details

3.1. Demolition (2023) - 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	37.5	36.8	28.2	71.6	0.03	1.79	—	1.79	1.55	—	1.55	—	3,503	3,503	0.14	0.03	—	3,515

Demolition	—	—	—	—	—	—	0.59	0.59	—	0.09	0.09	—	—	—	—	—	—	—
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	2.06	2.01	1.54	3.92	< 0.005	0.10	—	0.10	0.08	—	0.08	—	192	192	0.01	< 0.005	—	193
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.37	0.28	0.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	31.8	31.8	< 0.005	< 0.005	—	31.9
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 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	0.11	0.10	0.10	1.67	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	264	264	0.01	0.01	1.13	268
Vendor	0.02	0.01	0.23	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	190	190	0.02	0.03	0.52	199
Hauling	0.11	0.02	0.99	0.55	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	786	786	0.09	0.12	1.64	827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	13.5	13.5	< 0.005	< 0.005	0.03	13.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.9
Hauling	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	43.1	43.1	< 0.005	0.01	0.04	45.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.23	2.23	< 0.005	< 0.005	< 0.005	2.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.73	1.73	< 0.005	< 0.005	< 0.005	1.81
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.50

3.3. Grading (2023) - 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	6.56	5.51	53.8	42.5	0.08	2.57	—	2.57	2.37	—	2.37	—	9,101	9,101	0.37	0.07	—	9,132
Dust From Material Movement	—	—	—	—	—	—	3.08	3.08	—	1.02	1.02	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.95	2.33	< 0.005	0.14	—	0.14	0.13	—	0.13	—	499	499	0.02	< 0.005	—	500

Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.06	0.06	—	—	—	—	—	—	—
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	0.07	0.06	0.54	0.43	< 0.005	0.03	—	0.03	0.02	—	0.02	—	82.6	82.6	< 0.005	< 0.005	—	82.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.15	2.59	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	411	411	0.02	0.01	1.76	418
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	158	158	0.01	0.02	0.44	166
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	0.01	0.01	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	20.9	20.9	< 0.005	< 0.005	0.04	21.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.68	8.68	< 0.005	< 0.005	0.01	9.09
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.47	3.47	< 0.005	< 0.005	0.01	3.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.51

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

3.5. Building Construction (2023) - 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	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
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	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
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	1.15	0.96	8.52	7.49	0.01	0.50	—	0.50	0.46	—	0.46	—	1,371	1,371	0.06	0.01	—	1,376
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	0.21	0.18	1.55	1.37	< 0.005	0.09	—	0.09	0.08	—	0.08	—	227	227	0.01	< 0.005	—	228
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	1.01	0.92	0.89	15.5	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,453	2,453	0.10	0.08	10.5	2,491
Vendor	0.14	0.04	1.50	0.81	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,268	1,268	0.11	0.19	3.50	1,329
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	0.95	0.86	1.03	11.6	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,248	2,248	0.11	0.08	0.27	2,275
Vendor	0.14	0.03	1.56	0.82	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,268	1,268	0.11	0.19	0.09	1,327
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	0.28	0.25	0.31	3.66	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	678	678	0.03	0.02	1.36	688
Vendor	0.04	0.01	0.47	0.24	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	377	377	0.03	0.06	0.45	395
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	0.05	0.05	0.06	0.67	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	112	112	0.01	< 0.005	0.22	114
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.4	62.4	0.01	0.01	0.07	65.4
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. Building Construction (2024) - 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	3.63	3.04	26.9	24.9	0.05	1.53	—	1.53	1.41	—	1.41	—	4,608	4,608	0.19	0.04	—	4,624
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	0.51	0.43	3.79	3.51	0.01	0.22	—	0.22	0.20	—	0.20	—	649	649	0.03	0.01	—	652
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	0.09	0.08	0.69	0.64	< 0.005	0.04	—	0.04	0.04	—	0.04	—	107	107	< 0.005	< 0.005	—	108
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	0.91	0.82	0.95	10.7	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,204	2,204	0.10	0.08	0.25	2,231
Vendor	0.13	0.03	1.50	0.78	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,255	1,255	0.10	0.19	0.09	1,313
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	0.13	0.11	0.13	1.58	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	315	315	0.01	0.01	0.58	319
Vendor	0.02	< 0.005	0.21	0.11	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	177	177	0.01	0.03	0.21	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	52.1	52.1	< 0.005	< 0.005	0.10	52.9
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.04	30.7
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. Paving (2024) - 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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.06	0.05	0.43	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	216	216	0.01	0.01	0.86	219
Vendor	0.02	< 0.005	0.18	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	157	157	0.01	0.02	0.44	164
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	0.08	0.07	0.09	0.96	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	198	198	0.01	0.01	0.02	200
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	157	157	0.01	0.02	0.01	164
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	0.06	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	11.0	11.0	< 0.005	< 0.005	0.02	11.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.59	8.59	< 0.005	< 0.005	0.01	9.00
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.85
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.49
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. Architectural Coating (2024) - 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	0.44	0.36	2.42	3.06	< 0.005	0.08	—	0.08	0.08	—	0.08	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	49.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.04	0.27	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	—	39.2
Architectural Coatings	—	5.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.46	6.46	< 0.005	< 0.005	—	6.48
Architectural Coatings	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.19	0.17	0.16	2.79	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	475	475	0.02	0.02	1.90	482
Vendor	0.03	0.01	0.36	0.19	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	314	314	0.02	0.05	0.87	329
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	0.02	0.02	0.02	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	48.4	48.4	< 0.005	< 0.005	0.09	49.1
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	34.4	34.4	< 0.005	0.01	0.04	36.0
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	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.01	8.01	< 0.005	< 0.005	0.01	8.13
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.69	5.69	< 0.005	< 0.005	0.01	5.96
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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	6/6/2023	7/4/2023	5.00	20.0	—
Grading	Grading	7/5/2023	8/1/2023	5.00	20.0	—
Building Construction	Building Construction	8/2/2023	3/12/2024	5.00	160	—
Paving	Paving	3/13/2024	4/9/2024	5.00	20.0	—
Architectural Coating	Architectural Coating	4/10/2024	6/4/2024	5.00	40.0	—

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
Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48

Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
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
Demolition	Crushing/Proc. Equipment	Gasoline	Average	1.00	8.00	12.0	0.85
Grading	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Building Construction	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43

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	18.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	11.0	20.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	28.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	5.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	167	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	40.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	5.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	33.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

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	610,870	203,623	19,694

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 (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	18,680	—
Grading	0.00	0.00	110	0.00	—
Paving	0.00	0.00	0.00	0.00	7.54

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.52	100%
Other Asphalt Surfaces	5.02	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6

Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	—
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109

Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187
Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9

Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5
Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—

2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 18.43 acres
Construction: Architectural Coatings	Rule 1113
Construction: Construction Phases	Construction schedule anticipated to begin June 2023 and end June 2024
Construction: Off-Road Equipment	Construction equipment based on equipment used for construction of similar industrial projects within the area

Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Grading, Building Construction, Paving, and Architectural Coating

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APPENDIX 4.2:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Operations) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GWS9 Warehouse (Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	397	1000sqft	10.9	397,400	77,497	0.00	—	—
User Defined Industrial	397	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Parking Lot	288	Space	2.52	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	218	1000sqft	5.02	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.	5.24	14.2	4.75	34.3	0.06	0.08	1.48	1.56	0.09	0.28	0.37	377	8,448	8,825	38.8	1.01	425	10,521
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.07	11.2	4.85	14.7	0.05	0.06	1.48	1.54	0.06	0.28	0.34	377	8,151	8,529	38.8	1.01	406	10,204
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.61	12.7	3.68	22.9	0.04	0.06	1.08	1.14	0.06	0.21	0.27	377	6,692	7,070	38.7	0.86	411	8,706
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.66	2.32	0.67	4.18	0.01	0.01	0.20	0.21	0.01	0.04	0.05	62.5	1,108	1,170	6.41	0.14	68.1	1,441

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	2.17	1.77	4.60	17.1	0.06	0.06	1.48	1.54	0.06	0.28	0.34	—	5,928	5,928	0.40	0.54	20.0	6,120
Area	3.07	12.4	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	5.24	14.2	4.75	34.3	0.06	0.08	1.48	1.56	0.09	0.28	0.37	377	8,448	8,825	38.8	1.01	425	10,521
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.07	1.67	4.85	14.7	0.05	0.06	1.48	1.54	0.06	0.28	0.34	—	5,702	5,702	0.41	0.55	0.52	5,876
Area	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	2.07	11.2	4.85	14.7	0.05	0.06	1.48	1.54	0.06	0.28	0.34	377	8,151	8,529	38.8	1.01	406	10,204
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.21	3.58	11.1	0.04	0.04	1.08	1.12	0.04	0.21	0.25	—	4,195	4,195	0.30	0.40	6.31	4,328
Area	2.10	11.5	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.7	48.7	< 0.005	< 0.005	—	50.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405

Total	3.61	12.7	3.68	22.9	0.04	0.06	1.08	1.14	0.06	0.21	0.27	377	6,692	7,070	38.7	0.86	411	8,706
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.22	0.65	2.02	0.01	0.01	0.20	0.21	0.01	0.04	0.05	—	694	694	0.05	0.07	1.05	717
Area	0.38	2.10	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	305	305	0.03	< 0.005	—	307
Water	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226
Waste	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1
Total	0.66	2.32	0.67	4.18	0.01	0.01	0.20	0.21	0.01	0.04	0.05	62.5	1,108	1,170	6.41	0.14	68.1	1,441

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.78	1.66	0.81	14.8	0.03	0.01	0.13	0.15	0.01	0.04	0.05	—	2,865	2,865	0.13	0.08	11.2	2,904
User Defined Industrial	0.40	0.11	3.79	2.29	0.03	0.04	0.23	0.27	0.04	0.07	0.12	—	3,063	3,063	0.28	0.46	8.80	3,216
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	2.17	1.77	4.60	17.1	0.06	0.06	0.36	0.42	0.06	0.11	0.17	—	5,928	5,928	0.40	0.54	20.0	6,120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.68	1.57	0.90	12.4	0.03	0.01	0.13	0.15	0.01	0.04	0.05	—	2,638	2,638	0.14	0.09	0.29	2,668
User Defined Industrial	0.39	0.10	3.96	2.31	0.03	0.05	0.23	0.27	0.04	0.07	0.12	—	3,064	3,064	0.28	0.46	0.23	3,209
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	2.07	1.67	4.85	14.7	0.05	0.06	0.36	0.42	0.06	0.11	0.17	—	5,702	5,702	0.41	0.55	0.52	5,876
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.22	0.21	0.12	1.71	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	324	324	0.02	0.01	0.59	328
User Defined Industrial	0.05	0.01	0.53	0.31	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	371	371	0.03	0.06	0.46	389
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	0.28	0.22	0.65	2.02	0.01	0.01	0.05	0.06	0.01	0.02	0.02	—	694	694	0.05	0.07	1.05	717

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,753	1,753	0.17	0.02	—	1,763
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	91.8	91.8	0.01	< 0.005	—	92.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,845	1,845	0.17	0.02	—	1,856
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,753	1,753	0.17	0.02	—	1,763
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	91.8	91.8	0.01	< 0.005	—	92.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,845	1,845	0.17	0.02	—	1,856
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.03	< 0.005	—	292
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.2	15.2	< 0.005	< 0.005	—	15.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	305	305	0.03	< 0.005	—	307

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. 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	—	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.07	2.83	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Total	3.07	12.4	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.38	0.35	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29
Total	0.38	2.10	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

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
Unrefrigerated Warehouse-No Rail	469	39.7	15.9	125,173	3,795	321	128	1,012,762
User Defined Industrial	88.0	7.43	2.98	23,482	1,038	87.6	35.2	276,942
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	596,100	198,700	19,694

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)
Unrefrigerated Warehouse-No Rail	1,835,473	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	96,160	349	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	349	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)
Unrefrigerated Warehouse-No Rail	91,898,750	1,244,534
User Defined Industrial	0.00	0.00
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)
Unrefrigerated Warehouse-No Rail	374	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6

Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	17.46439112
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109

Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187
Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9

Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5
Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—

2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 18.43 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	No natural gas will be used

Operations: Refrigerants	Per 17 CCR 95371, new refrigeration equipment containing >50 lbs of refrigerant in new facilities is prohibited from utilizing refrigerants with a GWP of 150 or greater as of 1 Jan 2022

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APPENDIX 4.3:

CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Localized Operations) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GWS9 Warehouse (Localized Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	397	1000sqft	10.9	397,400	77,497	0.00	—	—
User Defined Industrial	397	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Parking Lot	288	Space	2.52	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	218	1000sqft	5.02	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.	4.64	13.9	1.52	22.1	0.01	0.03	0.12	0.15	0.04	0.02	0.06	377	3,150	3,527	38.6	0.55	407	5,061
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	10.9	1.44	5.17	0.01	0.01	0.12	0.13	0.01	0.02	0.03	377	3,060	3,437	38.6	0.54	405	4,969
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.18	12.5	1.14	15.6	< 0.005	0.02	0.09	0.11	0.03	0.02	0.04	377	2,946	3,323	38.5	0.53	406	4,849
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	2.28	0.21	2.85	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.5	488	550	6.38	0.09	67.1	803

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	1.57	1.45	1.37	4.86	0.01	0.01	0.12	0.13	0.01	0.02	0.03	—	630	630	0.15	0.08	1.60	660
Area	3.07	12.4	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	4.64	13.9	1.52	22.1	0.01	0.03	0.12	0.15	0.04	0.02	0.06	377	3,150	3,527	38.6	0.55	407	5,061
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.48	1.36	1.44	5.17	0.01	0.01	0.12	0.13	0.01	0.02	0.03	—	611	611	0.16	0.09	0.04	641
Area	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	1.48	10.9	1.44	5.17	0.01	0.01	0.12	0.13	0.01	0.02	0.03	377	3,060	3,437	38.6	0.54	405	4,969
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.07	0.98	1.04	3.80	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.02	—	449	449	0.12	0.06	0.50	471
Area	2.10	11.5	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.7	48.7	< 0.005	< 0.005	—	50.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405

Total	3.18	12.5	1.14	15.6	< 0.005	0.02	0.09	0.11	0.03	0.02	0.04	377	2,946	3,323	38.5	0.53	406	4,849
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.20	0.18	0.19	0.69	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	74.3	74.3	0.02	0.01	0.08	78.0
Area	0.38	2.10	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	305	305	0.03	< 0.005	—	307
Water	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226
Waste	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1
Total	0.58	2.28	0.21	2.85	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.5	488	550	6.38	0.09	67.1	803

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.44	1.40	0.33	4.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	338	338	0.08	0.04	1.04	352
User Defined Industrial	0.13	0.05	1.04	0.84	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	292	292	0.08	0.05	0.56	308
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	1.57	1.45	1.37	4.86	0.01	0.01	0.03	0.03	0.01	0.01	0.01	—	630	630	0.15	0.08	1.60	660
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.35	1.31	0.36	4.30	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	318	318	0.09	0.04	0.03	332
User Defined Industrial	0.13	0.05	1.08	0.87	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	293	293	0.08	0.05	0.01	309
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	1.48	1.36	1.44	5.17	0.01	0.01	0.03	0.03	0.01	0.01	0.01	—	611	611	0.16	0.09	0.04	641
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.17	0.05	0.58	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	38.8	38.8	0.01	< 0.005	0.05	40.6
User Defined Industrial	0.02	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	35.4	35.4	0.01	0.01	0.03	37.4
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	0.20	0.18	0.19	0.69	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	74.3	74.3	0.02	0.01	0.08	78.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,753	1,753	0.17	0.02	—	1,763
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	91.8	91.8	0.01	< 0.005	—	92.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,845	1,845	0.17	0.02	—	1,856
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,753	1,753	0.17	0.02	—	1,763
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	91.8	91.8	0.01	< 0.005	—	92.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,845	1,845	0.17	0.02	—	1,856
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.03	< 0.005	—	292
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.2	15.2	< 0.005	< 0.005	—	15.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	305	305	0.03	< 0.005	—	307

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. 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	—	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.07	2.83	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Total	3.07	12.4	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.38	0.35	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29
Total	0.38	2.10	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

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
Unrefrigerated Warehouse-No Rail	469	39.7	15.9	125,173	352	29.7	11.9	93,880
User Defined Industrial	88.0	7.43	2.98	23,482	66.0	5.57	2.24	17,611
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	596,100	198,700	19,694

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)
Unrefrigerated Warehouse-No Rail	1,835,473	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	96,160	349	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	349	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)
Unrefrigerated Warehouse-No Rail	91,898,750	1,244,534
User Defined Industrial	0.00	0.00
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)
Unrefrigerated Warehouse-No Rail	374	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6

Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	17.46439112
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109

Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187
Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9

Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5
Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—

2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 18.43 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	No natural gas will be used

Operations: Refrigerants	Per 17 CCR 95371, new refrigeration equipment containing >50 lbs of refrigerant in new facilities is prohibited from utilizing refrigerants with a GWP of 150 or greater as of 1 Jan 2022

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Appendix B:

Health Risk Assessment

Gateway South 9 Warehouse

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF SAN BERNARDINO

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DECEMBER 1, 2022

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard Assessment
PM10	Particulate Matter 10 microns in diameter or less
Project	Gateway South 9 Warehouse
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TA	Traffic Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

This report evaluates the potential health risk impacts to sensitive receptors (which are residents) and adjacent workers associated with the development of the Project, more specifically, health risk impacts as a result of exposure to Toxic Air Contaminants (TACs) including diesel particulate matter (DPM) as a result of heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project health risks.

The results of the health risk assessment from Project-generated DPM emissions are provided in Table ES-1, ES-2, and ES-3 below for the Project.

CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R3 which is located approximately 148 feet south of the Project site at an existing residence located at 755 East Orange Show Road. Since there are no private outdoor living areas (backyards) facing the Project site, R3 is placed at the building façade. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 5.74 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-D.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R3 which is located approximately 148 feet south of the Project site at an existing residence located at 755 East Orange Show Road. Since there are no private outdoor living areas (backyards) facing the Project site, R3 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 0.59 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site and primary truck route than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The modeled receptors are illustrated on Exhibit 2-D.

Worker Exposure Scenario[1]*:*

The worker receptor land use with the greatest potential exposure to Project operational -source DPM emissions is Location R5, which represents the adjacent potential worker receptor to the east of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.09 in one million which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

A one-quarter mile radius, or 1,320 feet, is commonly utilized for identifying sensitive receptors, such as schools, that may be impacted by a proposed project. This radius is more robust than, and therefore provides a more health protective scenario for evaluation than the 1,000-foot impact radius identified above.

There are no schools within ¼ mile of the Project site. The nearest school is Victoria Elementary School, which is located approximately 5,030 feet southeast of the Project site. Because there is no reasonable potential that TAC emissions would cause significant health impacts at distances of more than ¼ mile from the air pollution source, there would be no significant impacts that would occur to any schools in the vicinity of the Project.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential exposure to Project construction-source and operational-source DPM emissions is Location R3. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source and operational-source DPM emissions is

1 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

estimated at 6.03 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-D.

TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
1.00 Year Exposure	Maximum Exposed Sensitive Receptor	5.74	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	0.59	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.09	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	≤0.01	1.0	NO

TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	6.03	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

1 INTRODUCTION

The South Coast Air Quality Management District (SCAQMD) typically issues a comment letter on the Notice of Preparation of a CEQA Document. Per the SCAQMD's typical comment letter, if a proposed Project is expected to generate/attract diesel trucks, which emit diesel particulate matter (DPM) or other Toxic Air Contaminants (TACs), preparation of a HRA is necessary. This document serves to meet the SCAQMD's request for preparation of a HRA. This HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1) and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to TAC exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (2). In this report the AQMD states (Page D-3):

"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). A REL is a concentration at or below which health effects are not likely to occur. A hazard index less of than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic exposures of less than 1.0 are considered less-than-significant. Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

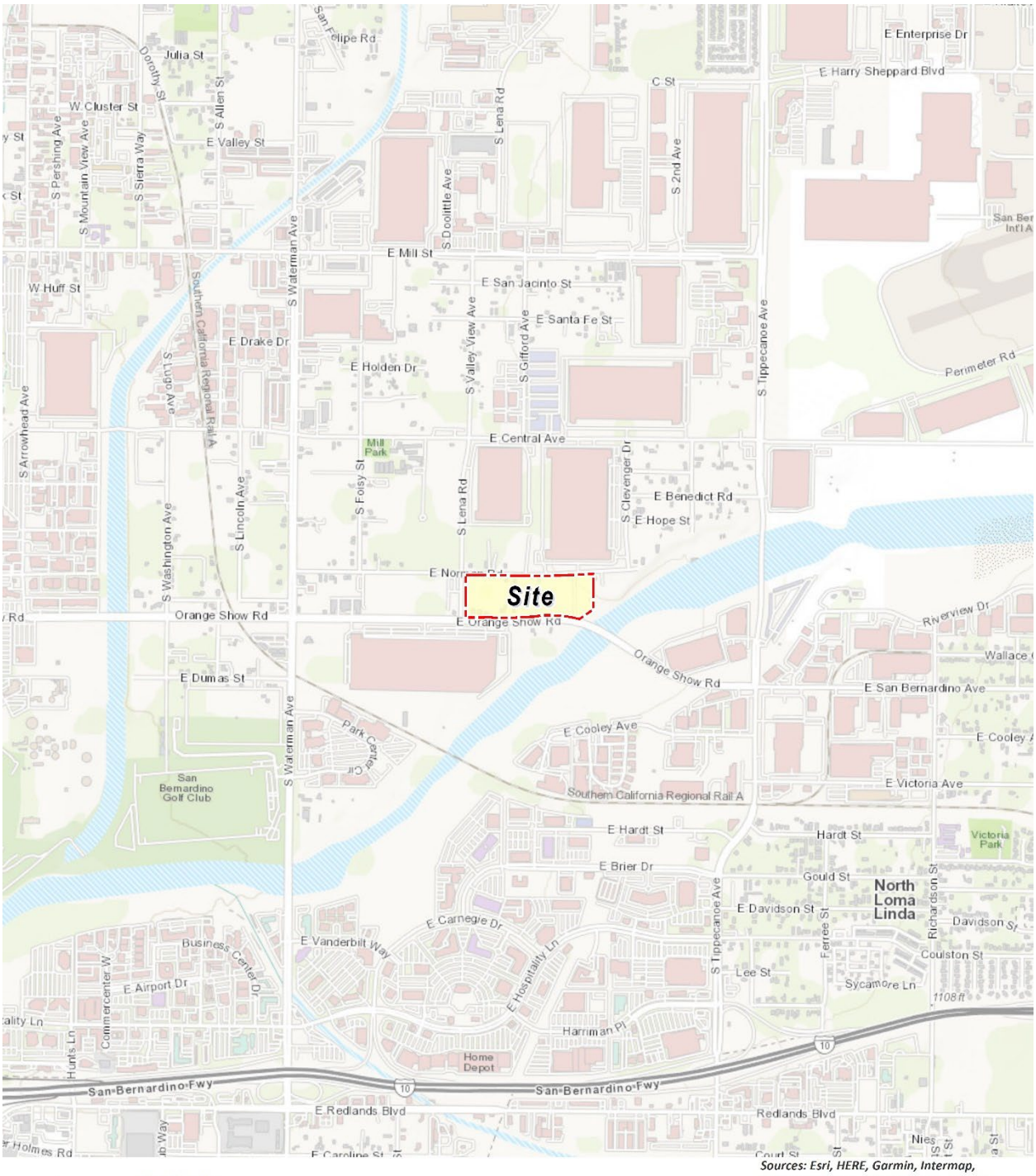
1.1 SITE LOCATION

The proposed Project is located at the southeast corner of Lena Road and Norman Road in the City of San Bernardino, as shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of the development of a 397,400 square foot (sf) high-cube transload and short-term warehouse building, as shown on Exhibit 1-B. The anticipated Project opening year is 2024.

EXHIBIT 1-A: LOCATION MAP

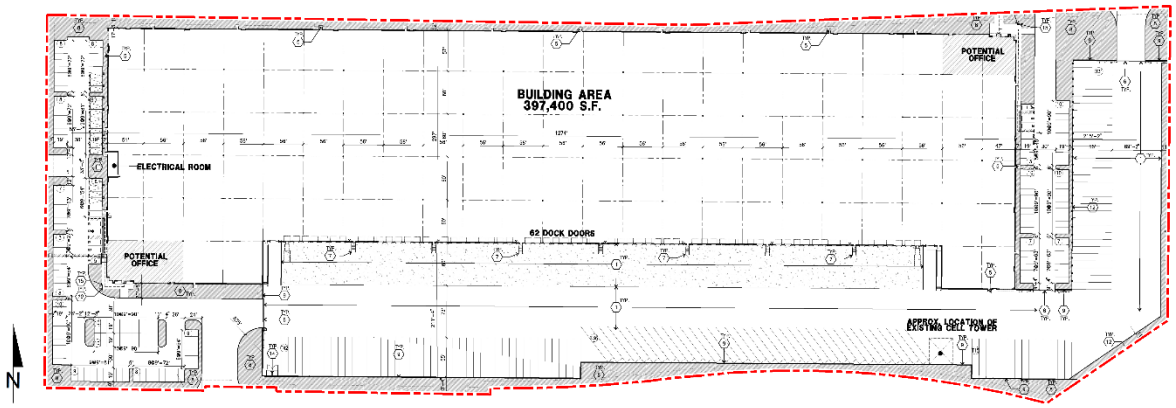


LEGEND:

Site Boundary

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS

EXHIBIT 1-B: SITE PLAN



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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on applicable guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per µg/m3 is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body (95% higher than the average population).
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.[2] The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2 CONSTRUCTION HEALTH RISK ASSESSMENT

2.2.1 EMISSIONS CALCULATIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and hauling activity as presented in the *Gateway South 9 Warehouse Air Quality Impact Analysis* ("technical study") prepared by Urban Crossroads, Inc. (4)

Construction related DPM emissions are expected to occur primarily as a function of heavy-duty construction equipment that would be operating on-site.

As discussed in the technical study, the Project would result in approximately 261 total working-days of construction activity. The construction duration by phase is shown on Table 2-1. A detailed summary of construction equipment assumptions by phase is provided at Table 2-2. The CalEEMod emissions outputs are presented in Appendix 2.1. The modeled emission sources for construction activity are illustrated on Exhibit 2-A.

[2] Although the Project is required to comply with ARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

TABLE 2-1: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Demolition/Crushing	6/6/2023	7/4/2023	20
Grading	7/5/2023	8/1/2023	20
Building Construction	8/2/2023	3/12/2024	160
Paving	3/13/2024	4/9/2024	20
Architectural Coating	4/10/2024	6/4/2024	40

TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Activity	Equipment	Amount	Hours Per Day
Demolition/Crushing	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
	Crushing/Proc. Equipment	1	8
Graders	Excavators	3	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	3	8
	Crawler Tractors	3	8
Building Construction	Cranes	2	8
	Forklifts	4	8
	Generator Sets	2	8
	Welders	2	8
	Crawler Tractors	4	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES



2.3 OPERATIONAL HEALTH RISK ASSESSMENT

2.3.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than 10µm in diameter (PM_{10}) generated with the 2021 version of the EMission FACtor model (EMFAC) developed by the CARB. EMFAC 2021 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (4). The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2021. Emission factors calculated using EMFAC 2021 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC 2021 in EMFAC Mode for vehicles in the San Bernardino County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2024 EMFAC 2021 run was conducted and a static 2024 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2024 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2024. Additionally, based on EMFAC 2021, Light-Heavy-Duty Trucks are comprised of 51.2% diesel, Medium-Heavy-Duty Trucks are comprised of 91.1% diesel, and Heavy-Heavy-Duty Trucks are comprised of 85.2% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.2 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (5):

$Emissions_{speedA}$ (g/s) = $EF_{RunExhaust}$ (g/VMT) * Distance (VMT/trip) * Number of Trips (trips/day) / seconds per day

Where:

$Emissions_{speedA}$ (g/s): Vehicle emissions at a given speed A;

$EF_{RunExhaust}$ (g/VMT): EMFAC running exhaust PM_{10} emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (5):

$Emissions_{idle}$ (g/s) = EF_{idle} (g/hr) * Number of Trips (trips/day) * Idling Time (min/trip) *

60 minutes per hour / seconds per day

Where:

$Emissions_{idle}$ (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM_{10} emission factor.

TABLE 2-3: 2024 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.08025 (g/idle-hr)
5	0.02115 (g/s)
25	0.00870 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix 2.3. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-4. The modeled emission sources are illustrated on Exhibit 2-B for on-site sources and Exhibit 2-C for off-site sources. The modeling domain is limited to the Project's primary truck route and includes off-site sources in the study area for more than ¾ mile. This modeling domain is more inclusive and conservative than using only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (6) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

EXHIBIT 2-B: MODELED ON-SITE EMISSION SOURCES

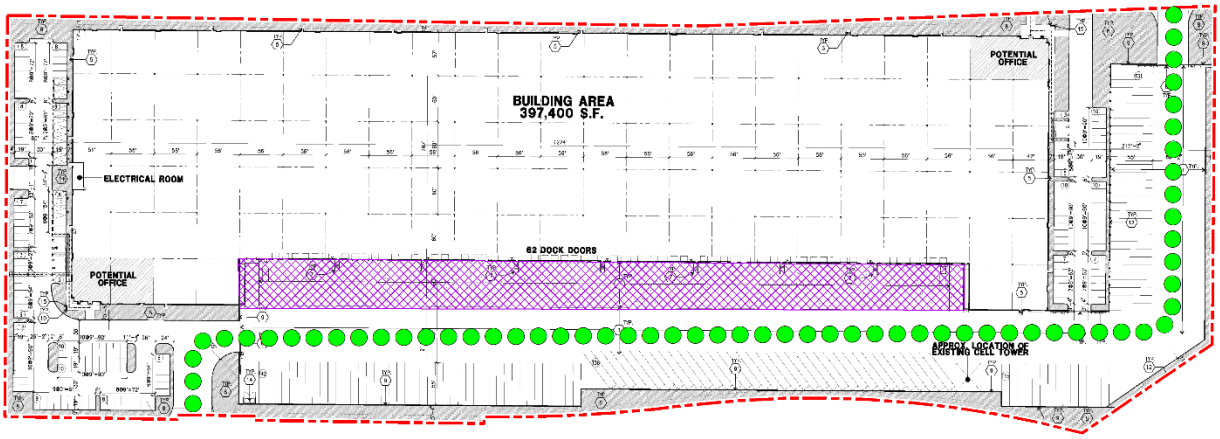


EXHIBIT 2-C: MODELED OFF-SITE EMISSION SOURCES



TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2024 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	44			0.0803	0.88	1.022E-05
On-Site Travel	88	29.90	0.0211		0.63	7.319E-06
Off-Site Travel - Norman 50% Inbound/Outbound	44	12.98	0.0087		0.11	1.306E-06
Off-Site Travel - Lena 50% Inbound/Outbound	44	4.67	0.0087		0.04	4.701E-07
Off-Site Travel - Orange Show 50% Inbound/Outbound	44	2.43	0.0087		0.02	2.447E-07
Off-Site Travel - Orange Show 100% Inbound/Outbound	88	133.67	0.0087		1.16	1.346E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

On-site truck idling was estimated to occur as trucks enter and travel through the Project site. Although the Project's diesel-fueled truck and equipment operators will be required by State law to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions be calculated assuming 15 minutes of truck idling (7), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis calculates truck idling at 15 minutes, consistent with SCAQMD's recommendation.

As summarized in the *Gateway South 9 Warehouse Traffic Scope* prepared by Translutions, the Project is expected to generate a total of approximately 557 actual vehicular trips-ends per day (279 vehicles inbound + 279 vehicles outbound) which includes 469 passenger vehicle trips (235 passenger vehicles inbound + 235 passenger vehicles outbound) and 88 two-way truck trips (44 trucks inbound + 44 trucks outbound) per day (8).

2.4 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). The Environmental Protection Agency's (U.S. EPA's) AERMOD model has been utilized. For purposes of this analysis, the Lakes AERMOD View (Version 11.2.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA's latest AERMOD Version 22112 (9).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

Model parameters are presented in Table 2-5 (10). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Fontana monitoring station was used to represent local weather conditions and prevailing winds (11).

TABLE 2-5: AERMOD MODEL PARAMETERS

Dispersion Coefficient (Urban/Rural)	Urban (population 2,035,210)
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project vicinity. The AERMOD dispersion model summary output files for the Project are

presented in Appendix 2.3. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace's building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents and workers over a period of 30 or 25 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include both residential and non-residential (worker) land uses in the vicinity of the Project. These receptors are included in the HRA since residents and workers may be exposed at these locations over a long-term duration of 30 and 25 years, respectively. This methodology is consistent with SCAQMD and OEHHA recommended guidance.

Any impacts to residents or workers located further away from the Project site than the modeled residential and workers would have a lesser impact than what has already been disclosed in the HRA at the MEIR and MEIW because concentrations dissipate with distance.

All receptors were set to existing elevation height so that only ground-level concentrations are analyzed. United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations (12).

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-6 through 2-8 summarize the Exposure Parameters for Residents and Workers based on 2015 OEHHA Guidelines. Appendix 2.4 includes the detailed risk calculation.

TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
0 to 2	1,090	10	1.00	1.00	260	8

TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

2.5 CARCINOGENIC CHEMICAL RISK

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSEair = (Cair \times [BR/BW] \times A \times EF) \times (1 \times 10^{-6})$$

Where:

DOSEair = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (ug/m3)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

A = inhalation absorption factor

EF = exposure frequency (days/365 days)

BW = body weight (kg)

1 x 10 -6 = conversion factors (ug to mg, L to m3)

RISKair = DOSEair x CPF x ED/AT

Where:

DOSEair = chronic daily intake (mg/kg/day)

CPF = cancer potency factor

ED = number of years within particular age group

AT = averaging time

2.6 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 $\mu g/m^3$ (13).

The non-cancer hazard index was calculated as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = C_{DPM}/REL_{DPM}$$

Where:

HI_{DPM} = Hazard Index; an expression of the potential for non-cancer health effects.

C_{DPM} = Annual average DPM concentration ($\mu g/m^3$).

REL_{DPM} = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.7 POTENTIAL PROJECT DPM-SOURCE CANCER AND NON-CANCER RISKS

CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R3 which is located approximately 148 feet south of the Project site at an existing residence located at 755 East Orange Show Road. Since there are no private outdoor living areas (backyards) facing the Project site, R3 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 5.74 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-D.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R3 which is located approximately 148 feet south of the Project site at an existing residence located at 755 East Orange Show Road. Since there are no private outdoor living areas (backyards) facing the Project site, R3 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 0.59 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site and primary truck route than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The modeled receptors are illustrated on Exhibit 2-D.

Worker Exposure Scenario[3]*:*

The worker receptor land use with the greatest potential exposure to Project operational -source DPM emissions is Location R5, which represents the adjacent potential worker receptor to the east of the Project site. At the MEIW, the maximum incremental cancer risk impact is 0.09 in one million which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer

3 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

A one-quarter mile radius, or 1,320 feet, is commonly utilized for identifying sensitive receptors, such as schools, that may be impacted by a proposed project. This radius is more robust than, and therefore provides a more health protective scenario for evaluation than the 1,000-foot impact radius identified above.

There are no schools within ¼ mile of the Project site. The nearest school is Victoria Elementary School, which is located approximately 5,030 feet southeast of the Project site. Because there is no reasonable potential that TAC emissions would cause significant health impacts at distances of more than ¼ mile from the air pollution source, there would be no significant impacts that would occur to any schools in the vicinity of the Project.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential exposure to Project construction-source and operational-source DPM emissions is Location R3. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source and operational-source DPM emissions is estimated at 6.03 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-D.

It should be noted that the receptors presented in Exhibit 2-D do not represent all modeled receptors.

EXHIBIT 2-D: RECEPTOR LOCATIONS



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3 REFERENCES

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4 CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Gateway South 9 Warehouse Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013
Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 2.1:

CALEEMOD OUTPUTS

GWS9 Warehouse (Construction) Detailed Report

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Data Field	Value
Project Name	GWS9 Warehouse (Construction)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	397	1000sqft	10.9	397,400	77,497	0.00	—	—
Parking Lot	288	Space	2.52	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	218	1000sqft	5.02	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.	37.7	50.0	54.1	74.0	0.09	2.57	3.49	6.07	2.37	1.12	3.49	—	9,670	9,670	0.40	0.31	14.0	9,716
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.95	4.13	31.2	37.6	0.05	1.71	2.53	4.23	1.57	0.61	2.18	—	8,125	8,125	0.40	0.31	0.36	8,227
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.91	6.13	13.9	17.9	0.02	0.75	0.99	1.74	0.68	0.25	0.93	—	3,213	3,213	0.16	0.11	1.94	3,251
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.71	1.12	2.53	3.26	< 0.005	0.14	0.18	0.32	0.12	0.05	0.17	—	532	532	0.03	0.02	0.32	538

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	37.7	36.9	54.1	74.0	0.09	2.57	3.49	6.07	2.37	1.12	3.49	—	9,670	9,670	0.40	0.31	14.0	9,716
2024	1.12	50.0	8.07	11.4	0.02	0.39	0.52	0.63	0.36	0.12	0.42	—	1,884	1,884	0.08	0.07	2.77	1,901
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.95	4.13	31.2	37.6	0.05	1.71	2.53	4.23	1.57	0.61	2.18	—	8,125	8,125	0.40	0.31	0.36	8,227
2024	4.67	3.89	29.4	36.4	0.05	1.55	2.53	4.07	1.43	0.61	2.03	—	8,067	8,067	0.39	0.31	0.34	8,168
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	3.91	3.56	13.9	17.9	0.02	0.75	0.99	1.74	0.68	0.25	0.93	—	3,213	3,213	0.16	0.11	1.94	3,251
2024	0.79	6.13	4.91	6.41	0.01	0.25	0.42	0.67	0.23	0.10	0.33	—	1,365	1,365	0.07	0.05	0.96	1,383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.71	0.65	2.53	3.26	< 0.005	0.14	0.18	0.32	0.12	0.05	0.17	—	532	532	0.03	0.02	0.32	538
2024	0.14	1.12	0.90	1.17	< 0.005	0.05	0.08	0.12	0.04	0.02	0.06	—	226	226	0.01	0.01	0.16	229

3. Construction Emissions Details

3.1. Demolition (2023) - 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	37.5	36.8	28.2	71.6	0.03	1.79	—	1.79	1.55	—	1.55	—	3,503	3,503	0.14	0.03	—	3,515

Demolition	—	—	—	—	—	—	0.59	0.59	—	0.09	0.09	—	—	—	—	—	—	—
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	2.06	2.01	1.54	3.92	< 0.005	0.10	—	0.10	0.08	—	0.08	—	192	192	0.01	< 0.005	—	193
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.37	0.28	0.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	31.8	31.8	< 0.005	< 0.005	—	31.9
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 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	0.11	0.10	0.10	1.67	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	264	264	0.01	0.01	1.13	268
Vendor	0.02	0.01	0.23	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	190	190	0.02	0.03	0.52	199
Hauling	0.11	0.02	0.99	0.55	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	786	786	0.09	0.12	1.64	827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	13.5	13.5	< 0.005	< 0.005	0.03	13.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.9
Hauling	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	43.1	43.1	< 0.005	0.01	0.04	45.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.23	2.23	< 0.005	< 0.005	< 0.005	2.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.73	1.73	< 0.005	< 0.005	< 0.005	1.81
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.50

3.3. Grading (2023) - 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	6.56	5.51	53.8	42.5	0.08	2.57	—	2.57	2.37	—	2.37	—	9,101	9,101	0.37	0.07	—	9,132
Dust From Material Movement	—	—	—	—	—	—	3.08	3.08	—	1.02	1.02	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.95	2.33	< 0.005	0.14	—	0.14	0.13	—	0.13	—	499	499	0.02	< 0.005	—	500

Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.06	0.06	—	—	—	—	—	—	—
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	0.07	0.06	0.54	0.43	< 0.005	0.03	—	0.03	0.02	—	0.02	—	82.6	82.6	< 0.005	< 0.005	—	82.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.15	2.59	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	411	411	0.02	0.01	1.76	418
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	158	158	0.01	0.02	0.44	166
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	0.01	0.01	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	20.9	20.9	< 0.005	< 0.005	0.04	21.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.68	8.68	< 0.005	< 0.005	0.01	9.09
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.47	3.47	< 0.005	< 0.005	0.01	3.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.51

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

3.5. Building Construction (2023) - 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	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
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	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
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	1.15	0.96	8.52	7.49	0.01	0.50	—	0.50	0.46	—	0.46	—	1,371	1,371	0.06	0.01	—	1,376
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	0.21	0.18	1.55	1.37	< 0.005	0.09	—	0.09	0.08	—	0.08	—	227	227	0.01	< 0.005	—	228
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	1.01	0.92	0.89	15.5	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,453	2,453	0.10	0.08	10.5	2,491
Vendor	0.14	0.04	1.50	0.81	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,268	1,268	0.11	0.19	3.50	1,329
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	0.95	0.86	1.03	11.6	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,248	2,248	0.11	0.08	0.27	2,275
Vendor	0.14	0.03	1.56	0.82	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,268	1,268	0.11	0.19	0.09	1,327
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	0.28	0.25	0.31	3.66	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	678	678	0.03	0.02	1.36	688
Vendor	0.04	0.01	0.47	0.24	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	377	377	0.03	0.06	0.45	395
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	0.05	0.05	0.06	0.67	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	112	112	0.01	< 0.005	0.22	114
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.4	62.4	0.01	0.01	0.07	65.4
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. Building Construction (2024) - 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	3.63	3.04	26.9	24.9	0.05	1.53	—	1.53	1.41	—	1.41	—	4,608	4,608	0.19	0.04	—	4,624
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	0.51	0.43	3.79	3.51	0.01	0.22	—	0.22	0.20	—	0.20	—	649	649	0.03	0.01	—	652
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	0.09	0.08	0.69	0.64	< 0.005	0.04	—	0.04	0.04	—	0.04	—	107	107	< 0.005	< 0.005	—	108
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	0.91	0.82	0.95	10.7	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,204	2,204	0.10	0.08	0.25	2,231
Vendor	0.13	0.03	1.50	0.78	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,255	1,255	0.10	0.19	0.09	1,313
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	0.13	0.11	0.13	1.58	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	315	315	0.01	0.01	0.58	319
Vendor	0.02	< 0.005	0.21	0.11	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	177	177	0.01	0.03	0.21	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	52.1	52.1	< 0.005	< 0.005	0.10	52.9
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.04	30.7
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. Paving (2024) - 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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.06	0.05	0.43	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	216	216	0.01	0.01	0.86	219
Vendor	0.02	< 0.005	0.18	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	157	157	0.01	0.02	0.44	164
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	0.08	0.07	0.09	0.96	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	198	198	0.01	0.01	0.02	200
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	157	157	0.01	0.02	0.01	164
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	0.06	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	11.0	11.0	< 0.005	< 0.005	0.02	11.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.59	8.59	< 0.005	< 0.005	0.01	9.00
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.85
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.49
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. Architectural Coating (2024) - 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	0.44	0.36	2.42	3.06	< 0.005	0.08	—	0.08	0.08	—	0.08	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	49.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.04	0.27	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	—	39.2
Architectural Coatings	—	5.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.46	6.46	< 0.005	< 0.005	—	6.48
Architectural Coatings	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.19	0.17	0.16	2.79	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	475	475	0.02	0.02	1.90	482
Vendor	0.03	0.01	0.36	0.19	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	314	314	0.02	0.05	0.87	329
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	0.02	0.02	0.02	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	48.4	48.4	< 0.005	< 0.005	0.09	49.1
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	34.4	34.4	< 0.005	0.01	0.04	36.0
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	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.01	8.01	< 0.005	< 0.005	0.01	8.13
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.69	5.69	< 0.005	< 0.005	0.01	5.96
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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	6/6/2023	7/4/2023	5.00	20.0	—
Grading	Grading	7/5/2023	8/1/2023	5.00	20.0	—
Building Construction	Building Construction	8/2/2023	3/12/2024	5.00	160	—
Paving	Paving	3/13/2024	4/9/2024	5.00	20.0	—
Architectural Coating	Architectural Coating	4/10/2024	6/4/2024	5.00	40.0	—

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
Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48

Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
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
Demolition	Crushing/Proc. Equipment	Gasoline	Average	1.00	8.00	12.0	0.85
Grading	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Building Construction	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43

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	18.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	11.0	20.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	28.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	5.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	167	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	40.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	5.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	33.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

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	610,870	203,623	19,694

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 (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	18,680	—
Grading	0.00	0.00	110	0.00	—
Paving	0.00	0.00	0.00	0.00	7.54

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.52	100%
Other Asphalt Surfaces	5.02	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6

Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	—
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109

Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187
Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9

Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5
Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—

2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 18.43 acres
Construction: Architectural Coatings	Rule 1113
Construction: Construction Phases	Construction schedule anticipated to begin June 2023 and end June 2024
Construction: Off-Road Equipment	Construction equipment based on equipment used for construction of similar industrial projects within the area

Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Grading, Building Construction, Paving, and Architectural Coating

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APPENDIX 2.2:

EMFAC EMISSIONS SUMMARY

Emissions	Phase	Lb/Day	# Days	Emissions	Avg/Lb Day	Avg/Hourly
On-Site	Demolition	1.79	20	35.8	1.79	0.22375
Exhaust PM-10	Grading	2.57	20	51.4	2.57	0.32125
	Building Construction	1.61	160	257.6	1.61	0.20125
	Paving	0.39	20	7.8	0.39	0.04875
	Architectural Coatings	0.08	40	3.2	0.08	0.01
		6.44	261	355.8	1.363218391	0.170402299
Off-Site	Demolition	1.50E-02	20	0.3	0.015	0.001875
Exhaust PM-10	Grading	5.00E-03	20	0.1	0.005	0.000625
	Building Construction	2.00E-02	160	3.2	0.02	0.0025
	Paving	5.00E-03	20	0.1	0.005	0.000625
	Architectural Coatings	5.00E-03	40	0.2	0.005	0.000625
		5.00E-02	261	3.9	0.014942529	0.001867816

Phase	Start Date	End Date	No. Days
Demolition	6/6/2023	7/4/2023	20
Grading	7/5/2023	8/1/2023	20
Building Construction	8/2/2023	3/12/2024	160
Paving	3/13/2024	4/9/2024	20
Arch Coatings	4/10/2024	6/4/2024	40
		Total Days of Construction	**261**

AVERAGE EMISSION FACTOR
SAN BERNARDINO COUNTY 2024

Speed	LHD1	LHD2	MHD	HHD
0	0.316954	0.498613	0.051812	0.01310
5	0.039143	0.05572	0.030547	0.01151
25	0.01796	0.026556	0.00817	0.00576

Speed	**Weighted Average Emissions**
0	**0.08025**
5	**0.02115**
25	**0.00870**

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	44			0.0803	0.88	1.022E-05
On-Site Travel	88	29.90	0.0211		0.63	7.319E-06
Off-Site Travel - Norman 50% Inbound/Outbound	44	12.98	0.0087		0.11	1.306E-06
Off-Site Travel - Lena 50% Inbound/Outbound	44	4.67	0.0087		0.04	4.701E-07
Off-Site Travel - Orange Show 50% Inbound/Outbound	44	2.43	0.0087		0.02	2.447E-07
Off-Site Travel - Orange Show 100% Inbound/Outbound	88	133.67	0.0087		1.16	1.346E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatur	relative_hu	process	speed_tim	pollutant	emission_rate
2024	Annual	San Berna	HHDT	Dsl	60	70	RUNEX	5	PM10	0.01351
2024	Annual	San Berna	HHDT	Dsl	60	70	RUNEX	25	PM10	0.006762
2024	Annual	San Berna	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.098223
2024	Annual	San Berna	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.045069
2024	Annual	San Berna	LHDT2	Dsl	60	70	RUNEX	5	PM10	0.089018
2024	Annual	San Berna	LHDT2	Dsl	60	70	RUNEX	25	PM10	0.042425
2024	Annual	San Berna	MHDT	Dsl	60	70	RUNEX	5	PM10	0.033532
2024	Annual	San Berna	MHDT	Dsl	60	70	RUNEX	25	PM10	0.008968

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar `	Vehicle Ca	Model Yea	Speed	Fuel	Population
San Berna	2024	HHDT	Aggregate	Aggregate	Gasoline	5.56599
San Berna	2024	HHDT	Aggregate	Aggregate	Diesel	14232
San Berna	2024	HHDT	Aggregate	Aggregate	Natural Ga	2469.47
San Berna	2024	LHDT1	Aggregate	Aggregate	Gasoline	17179.5
San Berna	2024	LHDT1	Aggregate	Aggregate	Diesel	11382.1
San Berna	2024	LHDT2	Aggregate	Aggregate	Gasoline	2883.7
San Berna	2024	LHDT2	Aggregate	Aggregate	Diesel	4825.53
San Berna	2024	MHDT	Aggregate	Aggregate	Gasoline	1460.6
San Berna	2024	MHDT	Aggregate	Aggregate	Diesel	14946.5
San Berna	2024	MHDT	Aggregate	Aggregate	Natural Ga	195.676

HHDT% GAS/NG	0.14814
HHDT% DSL	0.85186
LHDT1% GAS	0.60149
LHDT1% DSL	0.39851
LHDT2% GAS	0.37406
LHDT2% DSL	0.62594
MHDT% GAS	0.08902
MHDT% DSL	0.91098

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APPENDIX 2.3:

AERMOD MODEL INPUT/OUTPUT

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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/1/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Construction\14882
Construction.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14882 Construction.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     475015.900  3771116.620      314.000
   LOCATION VOL2         VOLUME     475175.595  3771118.133      316.000
   LOCATION VOL3         VOLUME     475334.953  3771119.982      315.000
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0002353409
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 14
** 474924.481, 3771193.371, 313.41, 3.49, 6.51
** 474925.621, 3771025.255, 312.47, 3.49, 6.51
** 474743.258, 3771027.535, 311.00, 3.49, 6.51
** 474527.272, 3771028.674, 310.00, 3.49, 6.51
** 474384.802, 3771029.814, 309.00, 3.49, 6.51
** 473733.994, 3771029.244, 305.16, 3.49, 6.51
** 473488.944, 3771028.104, 303.00, 3.49, 6.51
** 473307.721, 3771023.545, 302.00, 3.49, 6.51
** 472881.448, 3771020.696, 299.93, 3.49, 6.51
** 472839.277, 3771003.599, 299.71, 3.49, 6.51
** 472761.203, 3770959.718, 300.75, 3.49, 6.51
** 472701.365, 3770899.881, 303.97, 3.49, 6.51
** 472622.151, 3770829.785, 299.25, 3.49, 6.51
** 472569.152, 3770775.646, 298.00, 3.49, 6.51
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   LOCATION L0000001     VOLUME   474924.529 3771186.371 313.49
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LOCATION L0000002 VOLUME 474924.624 3771172.371 313.49
LOCATION L0000003 VOLUME 474924.719 3771158.371 313.37
LOCATION L0000004 VOLUME 474924.814 3771144.372 313.13
LOCATION L0000005 VOLUME 474924.908 3771130.372 313.00
LOCATION L0000006 VOLUME 474925.003 3771116.372 313.00
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LOCATION L0000010 VOLUME 474925.383 3771060.374 312.74
LOCATION L0000011 VOLUME 474925.478 3771046.374 312.52
LOCATION L0000012 VOLUME 474925.573 3771032.374 312.53
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LOCATION L0000014 VOLUME 474904.742 3771025.516 312.00
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LOCATION L0000017 VOLUME 474862.746 3771026.041 312.00
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LOCATION L0000065 VOLUME 474190.763 3771029.644 308.00
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LOCATION L0000067 VOLUME 474162.763 3771029.620 308.00

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LOCATION L0000075 VOLUME 474050.763 3771029.522 308.00
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LOCATION L0000077 VOLUME 474022.763 3771029.497 308.00
LOCATION L0000078 VOLUME 474008.763 3771029.485 307.97
LOCATION L0000079 VOLUME 473994.763 3771029.473 307.50
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LOCATION L0000091 VOLUME 473826.763 3771029.325 306.00
LOCATION L0000092 VOLUME 473812.763 3771029.313 306.00
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LOCATION L0000096 VOLUME 473756.763 3771029.264 305.57
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LOCATION L0000098 VOLUME 473728.763 3771029.220 305.00
LOCATION L0000099 VOLUME 473714.763 3771029.155 305.00
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LOCATION L0000101 VOLUME 473686.763 3771029.024 305.00
LOCATION L0000102 VOLUME 473672.763 3771028.959 305.00
LOCATION L0000103 VOLUME 473658.764 3771028.894 305.00
LOCATION L0000104 VOLUME 473644.764 3771028.829 304.83
LOCATION L0000105 VOLUME 473630.764 3771028.764 304.37
LOCATION L0000106 VOLUME 473616.764 3771028.699 304.00
LOCATION L0000107 VOLUME 473602.764 3771028.634 304.00
LOCATION L0000108 VOLUME 473588.764 3771028.569 304.00
LOCATION L0000109 VOLUME 473574.764 3771028.504 304.00
LOCATION L0000110 VOLUME 473560.765 3771028.438 304.00
LOCATION L0000111 VOLUME 473546.765 3771028.373 304.00
LOCATION L0000112 VOLUME 473532.765 3771028.308 304.00
LOCATION L0000113 VOLUME 473518.765 3771028.243 303.78
LOCATION L0000114 VOLUME 473504.765 3771028.178 303.49
LOCATION L0000115 VOLUME 473490.765 3771028.113 303.27
LOCATION L0000116 VOLUME 473476.769 3771027.798 303.09
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LOCATION L0000118 VOLUME 473448.778 3771027.094 303.00
LOCATION L0000119 VOLUME 473434.783 3771026.742 303.00
LOCATION L0000120 VOLUME 473420.787 3771026.390 303.00
LOCATION L0000121 VOLUME 473406.791 3771026.038 303.00
LOCATION L0000122 VOLUME 473392.796 3771025.686 303.00
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LOCATION L0000125 VOLUME 473350.809 3771024.629 302.30
LOCATION L0000126 VOLUME 473336.814 3771024.277 302.15
LOCATION L0000127 VOLUME 473322.818 3771023.925 302.03
LOCATION L0000128 VOLUME 473308.822 3771023.573 302.00
LOCATION L0000129 VOLUME 473294.823 3771023.459 302.00
LOCATION L0000130 VOLUME 473280.823 3771023.366 302.00
LOCATION L0000131 VOLUME 473266.824 3771023.272 302.00
LOCATION L0000132 VOLUME 473252.824 3771023.178 302.00
LOCATION L0000133 VOLUME 473238.824 3771023.085 302.00

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   LOCATION L0000134     VOLUME   473224.825 3771022.991 302.00
   LOCATION L0000135     VOLUME   473210.825 3771022.898 302.00
   LOCATION L0000136     VOLUME   473196.825 3771022.804 301.92
   LOCATION L0000137     VOLUME   473182.826 3771022.710 301.56
   LOCATION L0000138     VOLUME   473168.826 3771022.617 301.20
   LOCATION L0000139     VOLUME   473154.826 3771022.523 301.10
   LOCATION L0000140     VOLUME   473140.826 3771022.430 301.01
   LOCATION L0000141     VOLUME   473126.827 3771022.336 301.00
   LOCATION L0000142     VOLUME   473112.827 3771022.243 301.00
   LOCATION L0000143     VOLUME   473098.827 3771022.149 301.00
   LOCATION L0000144     VOLUME   473084.828 3771022.055 301.00
   LOCATION L0000145     VOLUME   473070.828 3771021.962 301.00
   LOCATION L0000146     VOLUME   473056.828 3771021.868 301.00
   LOCATION L0000147     VOLUME   473042.829 3771021.775 301.00
   LOCATION L0000148     VOLUME   473028.829 3771021.681 301.00
   LOCATION L0000149     VOLUME   473014.829 3771021.588 300.86
   LOCATION L0000150     VOLUME   473000.830 3771021.494 300.48
   LOCATION L0000151     VOLUME   472986.830 3771021.400 300.15
   LOCATION L0000152     VOLUME   472972.830 3771021.307 300.07
   LOCATION L0000153     VOLUME   472958.831 3771021.213 300.00
   LOCATION L0000154     VOLUME   472944.831 3771021.120 300.00
   LOCATION L0000155     VOLUME   472930.831 3771021.026 300.00
   LOCATION L0000156     VOLUME   472916.831 3771020.932 300.00
   LOCATION L0000157     VOLUME   472902.832 3771020.839 300.00
   LOCATION L0000158     VOLUME   472888.832 3771020.745 300.00
   LOCATION L0000159     VOLUME   472875.317 3771018.210 300.00
   LOCATION L0000160     VOLUME   472862.343 3771012.950 299.89
   LOCATION L0000161     VOLUME   472849.368 3771007.691 299.71
   LOCATION L0000162     VOLUME   472836.565 3771002.075 299.57
   LOCATION L0000163     VOLUME   472824.361 3770995.216 299.66
   LOCATION L0000164     VOLUME   472812.156 3770988.356 299.92
   LOCATION L0000165     VOLUME   472799.952 3770981.497 299.62
   LOCATION L0000166     VOLUME   472787.747 3770974.637 299.45
   LOCATION L0000167     VOLUME   472775.543 3770967.778 299.81
   LOCATION L0000168     VOLUME   472763.338 3770960.919 300.48
   LOCATION L0000169     VOLUME   472753.036 3770951.551 300.87
   LOCATION L0000170     VOLUME   472743.136 3770941.652 301.22
   LOCATION L0000171     VOLUME   472733.237 3770931.752 301.90
   LOCATION L0000172     VOLUME   472723.337 3770921.853 302.87
   LOCATION L0000173     VOLUME   472713.438 3770911.953 303.48
   LOCATION L0000174     VOLUME   472703.538 3770902.054 303.81
   LOCATION L0000175     VOLUME   472693.182 3770892.639 304.04
   LOCATION L0000176     VOLUME   472682.697 3770883.362 303.86
   LOCATION L0000177     VOLUME   472672.213 3770874.084 303.14
   LOCATION L0000178     VOLUME   472661.728 3770864.806 302.18
   LOCATION L0000179     VOLUME   472651.244 3770855.529 301.15
   LOCATION L0000180     VOLUME   472640.759 3770846.251 300.10
   LOCATION L0000181     VOLUME   472630.275 3770836.973 299.05
   LOCATION L0000182     VOLUME   472619.946 3770827.532 299.17
   LOCATION L0000183     VOLUME   472610.152 3770817.528 299.19
   LOCATION L0000184     VOLUME   472600.359 3770807.524 299.00
   LOCATION L0000185     VOLUME   472590.565 3770797.519 298.70
   LOCATION L0000186     VOLUME   472580.771 3770787.515 298.37
   LOCATION L0000187     VOLUME   472570.978 3770777.511 298.04
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
   SRCPARAM VOL1         0.0071567761     5.000    37.060     1.400
   SRCPARAM VOL2         0.0071567761     5.000    37.060     1.400
   SRCPARAM VOL3         0.0071567761     5.000    37.060     1.400
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000002     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000003     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000004     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000005     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000006     0.000001259      3.49      6.51      3.25
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SRCPARAM L0000072     0.000001259      3.49      6.51      3.25
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SRCPARAM L0000080     0.000001259      3.49      6.51      3.25
SRCPARAM L0000081     0.000001259      3.49      6.51      3.25
SRCPARAM L0000082     0.000001259      3.49      6.51      3.25
SRCPARAM L0000083     0.000001259      3.49      6.51      3.25
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SRCPARAM L0000099     0.000001259      3.49      6.51      3.25
SRCPARAM L0000100     0.000001259      3.49      6.51      3.25
SRCPARAM L0000101     0.000001259      3.49      6.51      3.25
SRCPARAM L0000102     0.000001259      3.49      6.51      3.25
SRCPARAM L0000103     0.000001259      3.49      6.51      3.25
SRCPARAM L0000104     0.000001259      3.49      6.51      3.25
SRCPARAM L0000105     0.000001259      3.49      6.51      3.25
SRCPARAM L0000106     0.000001259      3.49      6.51      3.25
SRCPARAM L0000107     0.000001259      3.49      6.51      3.25
SRCPARAM L0000108     0.000001259      3.49      6.51      3.25
SRCPARAM L0000109     0.000001259      3.49      6.51      3.25
SRCPARAM L0000110     0.000001259      3.49      6.51      3.25
SRCPARAM L0000111     0.000001259      3.49      6.51      3.25
SRCPARAM L0000112     0.000001259      3.49      6.51      3.25
SRCPARAM L0000113     0.000001259      3.49      6.51      3.25
SRCPARAM L0000114     0.000001259      3.49      6.51      3.25
SRCPARAM L0000115     0.000001259      3.49      6.51      3.25
SRCPARAM L0000116     0.000001259      3.49      6.51      3.25
SRCPARAM L0000117     0.000001259      3.49      6.51      3.25
SRCPARAM L0000118     0.000001259      3.49      6.51      3.25
SRCPARAM L0000119     0.000001259      3.49      6.51      3.25
SRCPARAM L0000120     0.000001259      3.49      6.51      3.25
SRCPARAM L0000121     0.000001259      3.49      6.51      3.25
SRCPARAM L0000122     0.000001259      3.49      6.51      3.25
SRCPARAM L0000123     0.000001259      3.49      6.51      3.25
SRCPARAM L0000124     0.000001259      3.49      6.51      3.25
SRCPARAM L0000125     0.000001259      3.49      6.51      3.25
SRCPARAM L0000126     0.000001259      3.49      6.51      3.25
SRCPARAM L0000127     0.000001259      3.49      6.51      3.25
SRCPARAM L0000128     0.000001259      3.49      6.51      3.25
SRCPARAM L0000129     0.000001259      3.49      6.51      3.25
SRCPARAM L0000130     0.000001259      3.49      6.51      3.25
SRCPARAM L0000131     0.000001259      3.49      6.51      3.25
SRCPARAM L0000132     0.000001259      3.49      6.51      3.25
SRCPARAM L0000133     0.000001259      3.49      6.51      3.25
SRCPARAM L0000134     0.000001259      3.49      6.51      3.25
SRCPARAM L0000135     0.000001259      3.49      6.51      3.25
SRCPARAM L0000136     0.000001259      3.49      6.51      3.25
SRCPARAM L0000137     0.000001259      3.49      6.51      3.25
SRCPARAM L0000138     0.000001259      3.49      6.51      3.25
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   SRCPARAM L0000139     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000140     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000141     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000142     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000143     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000144     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000145     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000146     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000147     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000148     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000149     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000150     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000151     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000152     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000153     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000154     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000155     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000156     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000157     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000158     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000159     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000160     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000161     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000162     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000163     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000164     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000165     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000166     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000167     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000168     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000169     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000170     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000171     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000172     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000173     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000174     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000175     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000176     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000177     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000178     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000179     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000180     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000181     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000182     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000183     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000184     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000185     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000186     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000187     0.000001259      3.49      6.51      3.25
** ------------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000026     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000030     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000031     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000032     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000035     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000036     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000038     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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EMISFACT L0000041     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000187     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** AERMOD Receptor Pathway
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RE FINISHED
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** AERMOD Meteorology Pathway
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   PROFFILE RDLD_V9_ADJU\RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
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   PROFBASE 481.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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** Project Parameters
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/1/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Construction\14882
Construction.ADI
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** AERMOD Control Pathway
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   AVERTIME ANNUAL
   URBANOPT 2035210 San_Bernardino_County
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CO FINISHED
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** AERMOD Source Pathway
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** Source ID - Type - X Coord. - Y Coord. **
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   LOCATION VOL2         VOLUME     475175.595  3771118.133      316.000
   LOCATION VOL3         VOLUME     475334.953  3771119.982      315.000
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** DESCRSRC
** PREFIX
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SRCPARAM L0000064     0.000001259      3.49      6.51      3.25
SRCPARAM L0000065     0.000001259      3.49      6.51      3.25
SRCPARAM L0000066     0.000001259      3.49      6.51      3.25
SRCPARAM L0000067     0.000001259      3.49      6.51      3.25
SRCPARAM L0000068     0.000001259      3.49      6.51      3.25
SRCPARAM L0000069     0.000001259      3.49      6.51      3.25
SRCPARAM L0000070     0.000001259      3.49      6.51      3.25
SRCPARAM L0000071     0.000001259      3.49      6.51      3.25
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SRCPARAM L0000072     0.000001259      3.49      6.51      3.25
SRCPARAM L0000073     0.000001259      3.49      6.51      3.25
SRCPARAM L0000074     0.000001259      3.49      6.51      3.25
SRCPARAM L0000075     0.000001259      3.49      6.51      3.25
SRCPARAM L0000076     0.000001259      3.49      6.51      3.25
SRCPARAM L0000077     0.000001259      3.49      6.51      3.25
SRCPARAM L0000078     0.000001259      3.49      6.51      3.25
SRCPARAM L0000079     0.000001259      3.49      6.51      3.25
SRCPARAM L0000080     0.000001259      3.49      6.51      3.25
SRCPARAM L0000081     0.000001259      3.49      6.51      3.25
SRCPARAM L0000082     0.000001259      3.49      6.51      3.25
SRCPARAM L0000083     0.000001259      3.49      6.51      3.25
SRCPARAM L0000084     0.000001259      3.49      6.51      3.25
SRCPARAM L0000085     0.000001259      3.49      6.51      3.25
SRCPARAM L0000086     0.000001259      3.49      6.51      3.25
SRCPARAM L0000087     0.000001259      3.49      6.51      3.25
SRCPARAM L0000088     0.000001259      3.49      6.51      3.25
SRCPARAM L0000089     0.000001259      3.49      6.51      3.25
SRCPARAM L0000090     0.000001259      3.49      6.51      3.25
SRCPARAM L0000091     0.000001259      3.49      6.51      3.25
SRCPARAM L0000092     0.000001259      3.49      6.51      3.25
SRCPARAM L0000093     0.000001259      3.49      6.51      3.25
SRCPARAM L0000094     0.000001259      3.49      6.51      3.25
SRCPARAM L0000095     0.000001259      3.49      6.51      3.25
SRCPARAM L0000096     0.000001259      3.49      6.51      3.25
SRCPARAM L0000097     0.000001259      3.49      6.51      3.25
SRCPARAM L0000098     0.000001259      3.49      6.51      3.25
SRCPARAM L0000099     0.000001259      3.49      6.51      3.25
SRCPARAM L0000100     0.000001259      3.49      6.51      3.25
SRCPARAM L0000101     0.000001259      3.49      6.51      3.25
SRCPARAM L0000102     0.000001259      3.49      6.51      3.25
SRCPARAM L0000103     0.000001259      3.49      6.51      3.25
SRCPARAM L0000104     0.000001259      3.49      6.51      3.25
SRCPARAM L0000105     0.000001259      3.49      6.51      3.25
SRCPARAM L0000106     0.000001259      3.49      6.51      3.25
SRCPARAM L0000107     0.000001259      3.49      6.51      3.25
SRCPARAM L0000108     0.000001259      3.49      6.51      3.25
SRCPARAM L0000109     0.000001259      3.49      6.51      3.25
SRCPARAM L0000110     0.000001259      3.49      6.51      3.25
SRCPARAM L0000111     0.000001259      3.49      6.51      3.25
SRCPARAM L0000112     0.000001259      3.49      6.51      3.25
SRCPARAM L0000113     0.000001259      3.49      6.51      3.25
SRCPARAM L0000114     0.000001259      3.49      6.51      3.25
SRCPARAM L0000115     0.000001259      3.49      6.51      3.25
SRCPARAM L0000116     0.000001259      3.49      6.51      3.25
SRCPARAM L0000117     0.000001259      3.49      6.51      3.25
SRCPARAM L0000118     0.000001259      3.49      6.51      3.25
SRCPARAM L0000119     0.000001259      3.49      6.51      3.25
SRCPARAM L0000120     0.000001259      3.49      6.51      3.25
SRCPARAM L0000121     0.000001259      3.49      6.51      3.25
SRCPARAM L0000122     0.000001259      3.49      6.51      3.25
SRCPARAM L0000123     0.000001259      3.49      6.51      3.25
SRCPARAM L0000124     0.000001259      3.49      6.51      3.25
SRCPARAM L0000125     0.000001259      3.49      6.51      3.25
SRCPARAM L0000126     0.000001259      3.49      6.51      3.25
SRCPARAM L0000127     0.000001259      3.49      6.51      3.25
SRCPARAM L0000128     0.000001259      3.49      6.51      3.25
SRCPARAM L0000129     0.000001259      3.49      6.51      3.25
SRCPARAM L0000130     0.000001259      3.49      6.51      3.25
SRCPARAM L0000131     0.000001259      3.49      6.51      3.25
SRCPARAM L0000132     0.000001259      3.49      6.51      3.25
SRCPARAM L0000133     0.000001259      3.49      6.51      3.25
SRCPARAM L0000134     0.000001259      3.49      6.51      3.25
SRCPARAM L0000135     0.000001259      3.49      6.51      3.25
SRCPARAM L0000136     0.000001259      3.49      6.51      3.25
SRCPARAM L0000137     0.000001259      3.49      6.51      3.25
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   SRCPARAM L0000138     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000139     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000140     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000141     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000142     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000143     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000144     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000145     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000146     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000147     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000148     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000149     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000150     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000151     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000152     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000153     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000154     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000155     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000156     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000157     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000158     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000159     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000160     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000161     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000162     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000163     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000164     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000165     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000166     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000167     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000168     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000169     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000170     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000171     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000172     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000173     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000174     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000175     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000176     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000177     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000178     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000179     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000180     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000181     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000182     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000183     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000184     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000185     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000186     0.000001259      3.49      6.51      3.25
   SRCPARAM L0000187     0.000001259      3.49      6.51      3.25
** ------------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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EMISFACT L0000176     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000176     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000177     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000177     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000177     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000177     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000178     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000178     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000178     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0000178     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000179     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000179     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000179     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000179     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000180     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000180     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000180     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000180     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000181     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000181     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000181     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000181     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000182     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000182     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000182     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000182     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000183     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000183     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000183     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000183     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000184     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000184     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000184     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000184     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000185     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000185     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000185     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000185     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000186     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000186     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000186     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000186     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000187     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000187     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000187     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000187     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14882 Construction.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE RDLD_V9_ADJU\RDLD_v9.SFC
   PROFFILE RDLD_V9_ADJU\RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
```

```
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "14882 CONSTRUCTION.AD\AN00GALL.PLT" 31
   SUMMFILE "14882 Construction.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2766       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    2766       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

                     PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   190 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    190 Source(s);       1 Source Group(s); and      52 Receptor(s)
```

```
               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    190 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing
                                                                 Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   481.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14882
 Construction.err
 **File for Summary of Results:   14882
 Construction.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 VOL1             0   0.71568E-02  475015.9 3771116.6   314.0     5.00    37.06     1.40
 YES   HRDOW
 VOL2             0   0.71568E-02  475175.6 3771118.1   316.0     5.00    37.06     1.40
```

```
YES   HRDOW
VOL3            0   0.71568E-02  475335.0 3771120.0   315.0     5.00    37.06     1.40
YES   HRDOW
L0000001        0   0.12590E-05  474924.5 3771186.4   313.5     3.49     6.51     3.25
YES   HRDOW
L0000002        0   0.12590E-05  474924.6 3771172.4   313.5     3.49     6.51     3.25
YES   HRDOW
L0000003        0   0.12590E-05  474924.7 3771158.4   313.4     3.49     6.51     3.25
YES   HRDOW
L0000004        0   0.12590E-05  474924.8 3771144.4   313.1     3.49     6.51     3.25
YES   HRDOW
L0000005        0   0.12590E-05  474924.9 3771130.4   313.0     3.49     6.51     3.25
YES   HRDOW
L0000006        0   0.12590E-05  474925.0 3771116.4   313.0     3.49     6.51     3.25
YES   HRDOW
L0000007        0   0.12590E-05  474925.1 3771102.4   313.0     3.49     6.51     3.25
YES   HRDOW
L0000008        0   0.12590E-05  474925.2 3771088.4   313.0     3.49     6.51     3.25
YES   HRDOW
L0000009        0   0.12590E-05  474925.3 3771074.4   313.0     3.49     6.51     3.25
YES   HRDOW
L0000010        0   0.12590E-05  474925.4 3771060.4   312.7     3.49     6.51     3.25
YES   HRDOW
L0000011        0   0.12590E-05  474925.5 3771046.4   312.5     3.49     6.51     3.25
YES   HRDOW
L0000012        0   0.12590E-05  474925.6 3771032.4   312.5     3.49     6.51     3.25
YES   HRDOW
L0000013        0   0.12590E-05  474918.7 3771025.3   312.3     3.49     6.51     3.25
YES   HRDOW
L0000014        0   0.12590E-05  474904.7 3771025.5   312.0     3.49     6.51     3.25
YES   HRDOW
L0000015        0   0.12590E-05  474890.7 3771025.7   312.0     3.49     6.51     3.25
YES   HRDOW
L0000016        0   0.12590E-05  474876.7 3771025.9   312.0     3.49     6.51     3.25
YES   HRDOW
L0000017        0   0.12590E-05  474862.7 3771026.0   312.0     3.49     6.51     3.25
YES   HRDOW
L0000018        0   0.12590E-05  474848.7 3771026.2   312.0     3.49     6.51     3.25
YES   HRDOW
L0000019        0   0.12590E-05  474834.7 3771026.4   312.0     3.49     6.51     3.25
YES   HRDOW
L0000020        0   0.12590E-05  474820.7 3771026.6   312.0     3.49     6.51     3.25
YES   HRDOW
L0000021        0   0.12590E-05  474806.8 3771026.7   311.6     3.49     6.51     3.25
YES   HRDOW
L0000022        0   0.12590E-05  474792.8 3771026.9   311.1     3.49     6.51     3.25
YES   HRDOW
L0000023        0   0.12590E-05  474778.8 3771027.1   311.0     3.49     6.51     3.25
YES   HRDOW
L0000024        0   0.12590E-05  474764.8 3771027.3   311.0     3.49     6.51     3.25
YES   HRDOW
L0000025        0   0.12590E-05  474750.8 3771027.4   311.0     3.49     6.51     3.25
YES   HRDOW
L0000026        0   0.12590E-05  474736.8 3771027.6   311.0     3.49     6.51     3.25
YES   HRDOW
L0000027        0   0.12590E-05  474722.8 3771027.6   311.0     3.49     6.51     3.25
YES   HRDOW
L0000028        0   0.12590E-05  474708.8 3771027.7   311.0     3.49     6.51     3.25
YES   HRDOW
L0000029        0   0.12590E-05  474694.8 3771027.8   311.0     3.49     6.51     3.25
YES   HRDOW
L0000030        0   0.12590E-05  474680.8 3771027.9   311.0     3.49     6.51     3.25
YES   HRDOW
L0000031        0   0.12590E-05  474666.8 3771027.9   310.9     3.49     6.51     3.25
YES   HRDOW
L0000032        0   0.12590E-05  474652.8 3771028.0   310.4     3.49     6.51     3.25
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
L0000033	0	0.12590E-05	474638.8	3771028.1	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000034	0	0.12590E-05	474624.8	3771028.2	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000035	0	0.12590E-05	474610.8	3771028.2	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000036	0	0.12590E-05	474596.8	3771028.3	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000037	0	0.12590E-05	474582.8	3771028.4	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000038	0	0.12590E-05	474568.8	3771028.5	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000039	0	0.12590E-05	474554.8	3771028.5	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000040	0	0.12590E-05	474540.8	3771028.6	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000041	0	0.12590E-05	474526.8	3771028.7	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000042	0	0.12590E-05	474512.8	3771028.8	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000043	0	0.12590E-05	474498.8	3771028.9	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000044	0	0.12590E-05	474484.8	3771029.0	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000045	0	0.12590E-05	474470.8	3771029.1	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000046	0	0.12590E-05	474456.8	3771029.2	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000047	0	0.12590E-05	474442.8	3771029.3	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000048	0	0.12590E-05	474428.8	3771029.5	310.0	3.49	6.51	3.25	YES HRDOW BY
L0000049	0	0.12590E-05	474414.8	3771029.6	309.5	3.49	6.51	3.25	YES HRDOW BY
L0000050	0	0.12590E-05	474400.8	3771029.7	309.0	3.49	6.51	3.25	YES HRDOW BY
L0000051	0	0.12590E-05	474386.8	3771029.8	309.0	3.49	6.51	3.25	YES HRDOW BY
L0000052	0	0.12590E-05	474372.8	3771029.8	309.0	3.49	6.51	3.25	YES HRDOW BY
L0000053	0	0.12590E-05	474358.8	3771029.8	309.0	3.49	6.51	3.25	YES HRDOW BY
L0000054	0	0.12590E-05	474344.8	3771029.8	309.0	3.49	6.51	3.25	YES HRDOW BY
L0000055	0	0.12590E-05	474330.8	3771029.8	309.0	3.49	6.51	3.25	

YES HRDOW
L0000056 0 0.12590E-05 474316.8 3771029.8 309.0 3.49 6.51 3.25
YES HRDOW
L0000057 0 0.12590E-05 474302.8 3771029.7 309.0 3.49 6.51 3.25
YES HRDOW
L0000058 0 0.12590E-05 474288.8 3771029.7 309.0 3.49 6.51 3.25
YES HRDOW
L0000059 0 0.12590E-05 474274.8 3771029.7 309.0 3.49 6.51 3.25
YES HRDOW
L0000060 0 0.12590E-05 474260.8 3771029.7 309.0 3.49 6.51 3.25
YES HRDOW
L0000061 0 0.12590E-05 474246.8 3771029.7 308.9 3.49 6.51 3.25
YES HRDOW
L0000062 0 0.12590E-05 474232.8 3771029.7 308.4 3.49 6.51 3.25
YES HRDOW
L0000063 0 0.12590E-05 474218.8 3771029.7 308.0 3.49 6.51 3.25
YES HRDOW
L0000064 0 0.12590E-05 474204.8 3771029.7 308.0 3.49 6.51 3.25
YES HRDOW
L0000065 0 0.12590E-05 474190.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000066 0 0.12590E-05 474176.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000067 0 0.12590E-05 474162.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000068 0 0.12590E-05 474148.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000069 0 0.12590E-05 474134.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000070 0 0.12590E-05 474120.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000071 0 0.12590E-05 474106.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000072 0 0.12590E-05 474092.8 3771029.6 308.0 3.49 6.51 3.25
YES HRDOW
L0000073 0 0.12590E-05 474078.8 3771029.5 308.0 3.49 6.51 3.25
YES HRDOW
L0000074 0 0.12590E-05 474064.8 3771029.5 308.0 3.49 6.51 3.25
YES HRDOW
L0000075 0 0.12590E-05 474050.8 3771029.5 308.0 3.49 6.51 3.25
YES HRDOW
L0000076 0 0.12590E-05 474036.8 3771029.5 308.0 3.49 6.51 3.25
YES HRDOW
L0000077 0 0.12590E-05 474022.8 3771029.5 308.0 3.49 6.51 3.25
YES HRDOW
FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000078	0	0.12590E-05	474008.8	3771029.5	308.0	3.49	6.51	3.25

YES HRDOW								
L0000079	0	0.12590E-05	473994.8	3771029.5	307.5	3.49	6.51	3.25
YES HRDOW								
L0000080	0	0.12590E-05	473980.8	3771029.5	307.0	3.49	6.51	3.25
YES HRDOW								
L0000081	0	0.12590E-05	473966.8	3771029.4	307.0	3.49	6.51	3.25
YES HRDOW								
L0000082	0	0.12590E-05	473952.8	3771029.4	307.0	3.49	6.51	3.25
YES HRDOW								
L0000083	0	0.12590E-05	473938.8	3771029.4	307.0	3.49	6.51	3.25
YES HRDOW								
L0000084	0	0.12590E-05	473924.8	3771029.4	307.0	3.49	6.51	3.25
YES HRDOW								
L0000085	0	0.12590E-05	473910.8	3771029.4	307.0	3.49	6.51	3.25
YES HRDOW								
L0000086	0	0.12590E-05	473896.8	3771029.4	307.0	3.49	6.51	3.25
YES HRDOW								
L0000087	0	0.12590E-05	473882.8	3771029.4	306.9	3.49	6.51	3.25
YES HRDOW								
L0000088	0	0.12590E-05	473868.8	3771029.4	306.7	3.49	6.51	3.25
YES HRDOW								
L0000089	0	0.12590E-05	473854.8	3771029.3	306.5	3.49	6.51	3.25
YES HRDOW								
L0000090	0	0.12590E-05	473840.8	3771029.3	306.2	3.49	6.51	3.25
YES HRDOW								
L0000091	0	0.12590E-05	473826.8	3771029.3	306.0	3.49	6.51	3.25
YES HRDOW								
L0000092	0	0.12590E-05	473812.8	3771029.3	306.0	3.49	6.51	3.25
YES HRDOW								
L0000093	0	0.12590E-05	473798.8	3771029.3	306.0	3.49	6.51	3.25
YES HRDOW								
L0000094	0	0.12590E-05	473784.8	3771029.3	306.0	3.49	6.51	3.25
YES HRDOW								
L0000095	0	0.12590E-05	473770.8	3771029.3	306.0	3.49	6.51	3.25
YES HRDOW								
L0000096	0	0.12590E-05	473756.8	3771029.3	305.6	3.49	6.51	3.25
YES HRDOW								
L0000097	0	0.12590E-05	473742.8	3771029.3	305.1	3.49	6.51	3.25
YES HRDOW								
L0000098	0	0.12590E-05	473728.8	3771029.2	305.0	3.49	6.51	3.25
YES HRDOW								
L0000099	0	0.12590E-05	473714.8	3771029.2	305.0	3.49	6.51	3.25
YES HRDOW								
L0000100	0	0.12590E-05	473700.8	3771029.1	305.0	3.49	6.51	3.25
YES HRDOW								
L0000101	0	0.12590E-05	473686.8	3771029.0	305.0	3.49	6.51	3.25
YES HRDOW								
L0000102	0	0.12590E-05	473672.8	3771029.0	305.0	3.49	6.51	3.25
YES HRDOW								
L0000103	0	0.12590E-05	473658.8	3771028.9	305.0	3.49	6.51	3.25
YES HRDOW								
L0000104	0	0.12590E-05	473644.8	3771028.8	304.8	3.49	6.51	3.25
YES HRDOW								
L0000105	0	0.12590E-05	473630.8	3771028.8	304.4	3.49	6.51	3.25
YES HRDOW								
L0000106	0	0.12590E-05	473616.8	3771028.7	304.0	3.49	6.51	3.25
YES HRDOW								
L0000107	0	0.12590E-05	473602.8	3771028.6	304.0	3.49	6.51	3.25
YES HRDOW								
L0000108	0	0.12590E-05	473588.8	3771028.6	304.0	3.49	6.51	3.25
YES HRDOW								
L0000109	0	0.12590E-05	473574.8	3771028.5	304.0	3.49	6.51	3.25
YES HRDOW								
L0000110	0	0.12590E-05	473560.8	3771028.4	304.0	3.49	6.51	3.25
YES HRDOW								
L0000111	0	0.12590E-05	473546.8	3771028.4	304.0	3.49	6.51	3.25

YES HRDOW
L0000112 0 0.12590E-05 473532.8 3771028.3 304.0 3.49 6.51 3.25
YES HRDOW
L0000113 0 0.12590E-05 473518.8 3771028.2 303.8 3.49 6.51 3.25
YES HRDOW
L0000114 0 0.12590E-05 473504.8 3771028.2 303.5 3.49 6.51 3.25
YES HRDOW
L0000115 0 0.12590E-05 473490.8 3771028.1 303.3 3.49 6.51 3.25
YES HRDOW
L0000116 0 0.12590E-05 473476.8 3771027.8 303.1 3.49 6.51 3.25
YES HRDOW
L0000117 0 0.12590E-05 473462.8 3771027.4 303.0 3.49 6.51 3.25
YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000118	0	0.12590E-05	473448.8	3771027.1	303.0	3.49	6.51	3.25
YES HRDOW								
L0000119	0	0.12590E-05	473434.8	3771026.7	303.0	3.49	6.51	3.25
YES HRDOW								
L0000120	0	0.12590E-05	473420.8	3771026.4	303.0	3.49	6.51	3.25
YES HRDOW								
L0000121	0	0.12590E-05	473406.8	3771026.0	303.0	3.49	6.51	3.25
YES HRDOW								
L0000122	0	0.12590E-05	473392.8	3771025.7	303.0	3.49	6.51	3.25
YES HRDOW								
L0000123	0	0.12590E-05	473378.8	3771025.3	303.0	3.49	6.51	3.25
YES HRDOW								
L0000124	0	0.12590E-05	473364.8	3771025.0	302.6	3.49	6.51	3.25
YES HRDOW								
L0000125	0	0.12590E-05	473350.8	3771024.6	302.3	3.49	6.51	3.25
YES HRDOW								
L0000126	0	0.12590E-05	473336.8	3771024.3	302.2	3.49	6.51	3.25
YES HRDOW								
L0000127	0	0.12590E-05	473322.8	3771023.9	302.0	3.49	6.51	3.25
YES HRDOW								
L0000128	0	0.12590E-05	473308.8	3771023.6	302.0	3.49	6.51	3.25
YES HRDOW								
L0000129	0	0.12590E-05	473294.8	3771023.5	302.0	3.49	6.51	3.25
YES HRDOW								
L0000130	0	0.12590E-05	473280.8	3771023.4	302.0	3.49	6.51	3.25
YES HRDOW								
L0000131	0	0.12590E-05	473266.8	3771023.3	302.0	3.49	6.51	3.25
YES HRDOW								
L0000132	0	0.12590E-05	473252.8	3771023.2	302.0	3.49	6.51	3.25
YES HRDOW								
L0000133	0	0.12590E-05	473238.8	3771023.1	302.0	3.49	6.51	3.25
YES HRDOW								
L0000134	0	0.12590E-05	473224.8	3771023.0	302.0	3.49	6.51	3.25

```
 YES   HRDOW
 L0000135         0   0.12590E-05  473210.8 3771022.9   302.0     3.49     6.51     3.25
 YES   HRDOW
 L0000136         0   0.12590E-05  473196.8 3771022.8   301.9     3.49     6.51     3.25
 YES   HRDOW
 L0000137         0   0.12590E-05  473182.8 3771022.7   301.6     3.49     6.51     3.25
 YES   HRDOW
 L0000138         0   0.12590E-05  473168.8 3771022.6   301.2     3.49     6.51     3.25
 YES   HRDOW
 L0000139         0   0.12590E-05  473154.8 3771022.5   301.1     3.49     6.51     3.25
 YES   HRDOW
 L0000140         0   0.12590E-05  473140.8 3771022.4   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000141         0   0.12590E-05  473126.8 3771022.3   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000142         0   0.12590E-05  473112.8 3771022.2   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000143         0   0.12590E-05  473098.8 3771022.1   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000144         0   0.12590E-05  473084.8 3771022.1   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000145         0   0.12590E-05  473070.8 3771022.0   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000146         0   0.12590E-05  473056.8 3771021.9   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000147         0   0.12590E-05  473042.8 3771021.8   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000148         0   0.12590E-05  473028.8 3771021.7   301.0     3.49     6.51     3.25
 YES   HRDOW
 L0000149         0   0.12590E-05  473014.8 3771021.6   300.9     3.49     6.51     3.25
 YES   HRDOW
 L0000150         0   0.12590E-05  473000.8 3771021.5   300.5     3.49     6.51     3.25
 YES   HRDOW
 L0000151         0   0.12590E-05  472986.8 3771021.4   300.2     3.49     6.51     3.25
 YES   HRDOW
 L0000152         0   0.12590E-05  472972.8 3771021.3   300.1     3.49     6.51     3.25
 YES   HRDOW
 L0000153         0   0.12590E-05  472958.8 3771021.2   300.0     3.49     6.51     3.25
 YES   HRDOW
 L0000154         0   0.12590E-05  472944.8 3771021.1   300.0     3.49     6.51     3.25
 YES   HRDOW
 L0000155         0   0.12590E-05  472930.8 3771021.0   300.0     3.49     6.51     3.25
 YES   HRDOW
 L0000156         0   0.12590E-05  472916.8 3771020.9   300.0     3.49     6.51     3.25
 YES   HRDOW
 L0000157         0   0.12590E-05  472902.8 3771020.8   300.0     3.49     6.51     3.25
 YES   HRDOW
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                        BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -
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 L0000158         0   0.12590E-05  472888.8 3771020.7   300.0     3.49     6.51     3.25
 YES   HRDOW
 L0000159         0   0.12590E-05  472875.3 3771018.2   300.0     3.49     6.51     3.25
 YES   HRDOW
 L0000160         0   0.12590E-05  472862.3 3771012.9   299.9     3.49     6.51     3.25
 YES   HRDOW
 L0000161         0   0.12590E-05  472849.4 3771007.7   299.7     3.49     6.51     3.25
 YES   HRDOW
 L0000162         0   0.12590E-05  472836.6 3771002.1   299.6     3.49     6.51     3.25
 YES   HRDOW
 L0000163         0   0.12590E-05  472824.4 3770995.2   299.7     3.49     6.51     3.25
 YES   HRDOW
 L0000164         0   0.12590E-05  472812.2 3770988.4   299.9     3.49     6.51     3.25
 YES   HRDOW
 L0000165         0   0.12590E-05  472800.0 3770981.5   299.6     3.49     6.51     3.25
 YES   HRDOW
 L0000166         0   0.12590E-05  472787.7 3770974.6   299.4     3.49     6.51     3.25
 YES   HRDOW
 L0000167         0   0.12590E-05  472775.5 3770967.8   299.8     3.49     6.51     3.25
 YES   HRDOW
 L0000168         0   0.12590E-05  472763.3 3770960.9   300.5     3.49     6.51     3.25
 YES   HRDOW
 L0000169         0   0.12590E-05  472753.0 3770951.6   300.9     3.49     6.51     3.25
 YES   HRDOW
 L0000170         0   0.12590E-05  472743.1 3770941.7   301.2     3.49     6.51     3.25
 YES   HRDOW
 L0000171         0   0.12590E-05  472733.2 3770931.8   301.9     3.49     6.51     3.25
 YES   HRDOW
 L0000172         0   0.12590E-05  472723.3 3770921.9   302.9     3.49     6.51     3.25
 YES   HRDOW
 L0000173         0   0.12590E-05  472713.4 3770912.0   303.5     3.49     6.51     3.25
 YES   HRDOW
 L0000174         0   0.12590E-05  472703.5 3770902.1   303.8     3.49     6.51     3.25
 YES   HRDOW
 L0000175         0   0.12590E-05  472693.2 3770892.6   304.0     3.49     6.51     3.25
 YES   HRDOW
 L0000176         0   0.12590E-05  472682.7 3770883.4   303.9     3.49     6.51     3.25
 YES   HRDOW
 L0000177         0   0.12590E-05  472672.2 3770874.1   303.1     3.49     6.51     3.25
 YES   HRDOW
 L0000178         0   0.12590E-05  472661.7 3770864.8   302.2     3.49     6.51     3.25
 YES   HRDOW
 L0000179         0   0.12590E-05  472651.2 3770855.5   301.2     3.49     6.51     3.25
 YES   HRDOW
 L0000180         0   0.12590E-05  472640.8 3770846.3   300.1     3.49     6.51     3.25
 YES   HRDOW
 L0000181         0   0.12590E-05  472630.3 3770837.0   299.1     3.49     6.51     3.25
 YES   HRDOW
 L0000182         0   0.12590E-05  472619.9 3770827.5   299.2     3.49     6.51     3.25
 YES   HRDOW
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 YES   HRDOW
 L0000184         0   0.12590E-05  472600.4 3770807.5   299.0     3.49     6.51     3.25
 YES   HRDOW
 L0000185         0   0.12590E-05  472590.6 3770797.5   298.7     3.49     6.51     3.25
 YES   HRDOW
 L0000186         0   0.12590E-05  472580.8 3770787.5   298.4     3.49     6.51     3.25
 YES   HRDOW
 L0000187         0   0.12590E-05  472571.0 3770777.5   298.0     3.49     6.51     3.25
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
	L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
	L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
	L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 ,
	L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 ,
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	L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 ,
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	L0000142 , L0000143 , L0000144 , L0000145 , L0000146 , L0000147 , L0000148 , L0000149 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 ,
L0000164 , L0000165 ,

L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 ,
L0000172 , L0000173 ,

L0000174 , L0000175 , L0000176 , L0000177 , L0000178 , L0000179 ,
L0000180 , L0000181 ,

L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

2035210. VOL1 , VOL2 , VOL3 , L0000001 , L0000002 ,
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L0000005 ,

L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 ,

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L0000142 , L0000143 , L0000144 , L0000145 , L0000146 , L0000147 ,
L0000148 , L0000149 ,

L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 ,
L0000156 , L0000157 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 ,
L0000164 , L0000165 ,

L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 ,
L0000172 , L0000173 ,

L0000174 , L0000175 , L0000176 , L0000177 , L0000178 , L0000179 ,
L0000180 , L0000181 ,

L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL3         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000001     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000002 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000003 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

(HRDOW) *

```
SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000007 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000008 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000009 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000010 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000012     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000014 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000017 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

```
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000018     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

                     PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

                     PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000020     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
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```
 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000023 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000024 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000027 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000028 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000029 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000030 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000033 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22													

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   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000036     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000038 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000041 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000042 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000043     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000044     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000047 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000048     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000050 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000051 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000053 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000054 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000055 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000057 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000058 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000059 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000061   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000062   ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***       11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000063     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***       11:05:09
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000064 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000065 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000066 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000067 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000068 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000069 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000070     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

(HRDOW) *

SOURCE ID = L0000071 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000072 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000073 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000074 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000075 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000076 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000077 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000078 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000079 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000081 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000082 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000083 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

```
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000084     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000085     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

```
 SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

                      PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000088     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000089 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEEKDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000090 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEEKDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000091     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        11:05:09

                     PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000092     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000093     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000094     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000095 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000096     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000097     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000098 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000099 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22													

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000100     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000101     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000102 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000103 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000104 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000105 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000106 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000107 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000109 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000110 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000111     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

SOURCE ID = L0000112 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
SOURCE ID = L0000114     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
SOURCE ID = L0000115     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000116 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000117 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000118 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000119 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000120 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000121 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000122 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000123 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000124 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000125 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000126 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000127   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000128   ; SOURCE TYPE = VOLUME   :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000129 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000130 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000131 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000132 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000133 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000134     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        11:05:09

                        PAGE 148
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000135     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000136 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

SOURCE ID = L0000137 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000138 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000139 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000140 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000141 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000142 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000143 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000144 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000145     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000146 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000147 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000148 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000149 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

```
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000150     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000151     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000152     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

SOURCE ID = L0000153 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000154 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000155 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000156 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000157 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000158 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000159 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1 *** 12/01/22
*** AERMET - VERSION 16216 ***
*** *** 11:05:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000160 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000161 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000162 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000163 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000164 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000165 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22													

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000166     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

                     PAGE 180
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000167     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        11:05:09

                        PAGE 181
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000168     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        11:05:09

                        PAGE 182
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000169     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000170 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000171 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000172 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000173 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000174 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000175 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000176 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000177     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

SOURCE ID = L0000178 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000179 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000180 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000181 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000182     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        11:05:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000183     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000184 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000185 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000186 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000187 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(474864.2, 3771196.5, 313.0, 313.0, 0.0); (474860.6, 3771085.8, 312.0, 312.0, 0.0);
(475058.6, 3770969.7, 314.0, 314.0, 0.0); (475026.4, 3770971.6, 314.0, 314.0, 0.0);
(474550.7, 3770973.8, 310.0, 310.0, 0.0); (474518.6, 3770973.2, 310.0, 310.0, 0.0);
(474788.4, 3770953.7, 311.0, 311.0, 0.0); (474568.6, 3771089.1, 310.0, 310.0, 0.0);
(475192.2, 3770995.5, 314.2, 314.2, 0.0); (475570.6, 3771244.9, 318.0, 318.0, 0.0);
(475600.4, 3771239.3, 318.4, 318.4, 0.0); (475240.7, 3771260.5, 316.0, 316.0, 0.0);
(475486.7, 3771257.5, 318.0, 318.0, 0.0); (475581.9, 3771365.3, 318.0, 318.0, 0.0);
(475567.0, 3771426.1, 318.0, 318.0, 0.0); (475146.8, 3771403.8, 315.0, 315.0, 0.0);
(474972.9, 3771404.2, 313.1, 313.1, 0.0); (474575.8, 3771232.5, 310.0, 310.0, 0.0);
(474191.8, 3771048.4, 308.0, 308.0, 0.0); (474106.5, 3771047.2, 308.0, 308.0, 0.0);
(474172.0, 3771047.2, 308.0, 308.0, 0.0); (474258.2, 3770962.3, 308.3, 308.3, 0.0);
(473996.8, 3771011.2, 307.5, 307.5, 0.0); (474000.2, 3771052.4, 307.7, 307.7, 0.0);

```
    ( 473969.0, 3771052.6,     307.0,     307.0,       0.0);         ( 473907.8, 3771053.3,
    306.9,     306.9,       0.0);
    ( 473891.9, 3771051.9,     306.8,     306.8,       0.0);         ( 473792.9, 3771070.1,
    306.0,     306.0,       0.0);
    ( 473772.0, 3771064.2,     306.0,     306.0,       0.0);         ( 473906.7, 3770931.8,
    306.6,     306.6,       0.0);
    ( 474355.2, 3770961.4,     309.0,     309.0,       0.0);         ( 474544.6, 3771049.4,
    310.0,     310.0,       0.0);
    ( 474505.7, 3771064.1,     310.0,     310.0,       0.0);         ( 474485.8, 3771055.2,
    310.0,     310.0,       0.0);
    ( 474447.5, 3771050.0,     310.0,     310.0,       0.0);         ( 474413.5, 3771050.0,
    309.5,     309.5,       0.0);
    ( 474386.8, 3771047.7,     309.0,     309.0,       0.0);         ( 473548.6, 3771072.2,
    304.0,     304.0,       0.0);
    ( 473404.5, 3771071.1,     303.0,     303.0,       0.0);         ( 473134.3, 3770916.2,
    301.0,     301.0,       0.0);
    ( 472919.1, 3771002.5,     299.8,     299.8,       0.0);         ( 472923.9, 3771041.4,
    300.0,     300.0,       0.0);
    ( 475692.6, 3770921.6,     315.0,     315.0,       0.0);         ( 475924.7, 3771066.4,
    317.0,     317.0,       0.0);
    ( 475263.9, 3770551.7,     314.9,     314.9,       0.0);         ( 475369.6, 3770576.6,
    316.0,     316.0,       0.0);
    ( 475733.8, 3770668.9,     318.0,     318.0,       0.0);         ( 476048.8, 3770298.1,
    323.0,     323.0,       0.0);
    ( 476729.0, 3770270.9,     329.0,     329.0,       0.0);         ( 475419.1, 3771148.3,
    317.0,     317.0,       0.0);
    ( 475419.7, 3771202.4,     317.0,     317.0,       0.0);         ( 475420.1, 3771096.3,
    315.0,     315.0,       0.0);
```



```
                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                   (1=YES; 0=NO)

              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

                  NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
                  INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                                (METERS/SEC)

                                                  1.54,   3.09,   5.14,   8.23,  10.80,
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
RDLD_V9_ADJU\RDLD_v9.SFC Met
Version: 16216
Profile file:
RDLD_V9_ADJU\RDLD_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	110.	9.1	285.4	5.5
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	130.	9.1	284.5	5.5
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	100.	9.1	285.0	5.5
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	107.	9.1	284.6	5.5
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	98.	9.1	284.9	5.5
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	86.	9.1	284.5	5.5
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	91.	9.1	284.0	5.5
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90	107.	9.1	285.0	5.5
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10	81.	10.1	289.1	5.5
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40	72.	9.1	295.1	5.5
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68	78.	10.1	297.9	5.5
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80	333.	9.1	299.4	5.5
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80	72.	9.1	300.4	5.5
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80	277.	9.1	301.0	5.5
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70	243.	9.1	301.0	5.5
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30	274.	9.1	300.1	5.5
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90	252.	9.1	298.2	5.5
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90	116.	9.1	296.4	5.5

```
 12 01 01   1 19  -18.8  0.204 -9.000 -9.000 -999.  220.     45.6  0.15   3.22   1.00    2.27
 79.   10.1  292.2    5.5
 12 01 01   1 20   -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32   3.22   1.00    0.90
 95.    9.1  290.2    5.5
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22   1.00    0.90
 99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22   1.00    0.90
 110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22   1.00    1.30
 89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22   1.00    0.90
 105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        11:05:09

                     PAGE 204
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR
                  SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     VOL1         , VOL2        ,
                                 VOL3        , L0000001    , L0000002    ,
                L0000003    , L0000004    , L0000005    , L0000006    , L0000007    ,
                L0000008    , L0000009    , L0000010    ,
                L0000011    , L0000012    , L0000013    , L0000014    , L0000015    ,
                L0000016    , L0000017    , L0000018    ,
                L0000019    , L0000020    , L0000021    , L0000022    , L0000023    ,
                L0000024    , L0000025    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                         ** CONC OF DPM      IN
                                         MICROGRAMS/M**3                            **

      X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)   Y-COORD
      (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
        474864.18    3771196.53       0.01493                       474860.63
        3771085.83        0.01751
        475058.56    3770969.74       0.02923                       475026.44
        3770971.63        0.02747
        474550.67    3770973.83       0.00229                       474518.56
        3770973.20        0.00209
        474788.40    3770953.68       0.00590                       474568.62
        3771089.07        0.00251
        475192.20    3770995.46       0.04946                       475570.60
        3771244.89        0.01090
        475600.38    3771239.28       0.00972                       475240.74
        3771260.50        0.03295
        475486.73    3771257.54       0.01538                       475581.88
        3771365.32        0.00531
        475566.99    3771426.07       0.00414                       475146.80
        3771403.79        0.00886
        474972.89    3771404.22       0.00685                       474575.80
        3771232.49        0.00224
```

474191.79	3771048.36	0.00184	474106.47	
3771047.17	0.00179			
474172.00	3771047.17	0.00187	474258.23	
3770962.30	0.00117			
473996.80	3771011.22	0.00166	474000.21	
3771052.40	0.00145			
473969.04	3771052.63	0.00141	473907.83	
3771053.31	0.00135			
473891.90	3771051.95	0.00138	473792.93	
3771070.15	0.00092			
473771.99	3771064.24	0.00100	473906.69	
3770931.81	0.00070			
474355.16	3770961.39	0.00137	474544.60	
3771049.43	0.00294			
474505.73	3771064.13	0.00229	474485.81	
3771055.24	0.00238			
474447.51	3771050.01	0.00239	474413.47	
3771050.01	0.00227			
474386.78	3771047.69	0.00230	473548.58	
3771072.18	0.00079			
473404.45	3771071.07	0.00074	473134.34	
3770916.19	0.00043			
472919.07	3771002.53	0.00130	472923.88	
3771041.43	0.00116			
475692.60	3770921.56	0.00725	475924.72	
3771066.37	0.00407			
475263.86	3770551.73	0.00224	475369.62	
3770576.58	0.00246			
475733.77	3770668.86	0.00288	476048.78	
3770298.11	0.00098			
476729.02	3770270.95	0.00073	475419.11	
3771148.32	0.09050			
475419.72	3771202.39	0.04646	475420.13	
3771096.31	0.09190			

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.09190 AT	(475420.13, 3771096.31, 315.00, 315.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.09050 AT	(475419.11, 3771148.32, 316.97, 316.97, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.04946 AT	(475192.20, 3770995.46, 314.18, 314.18, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.04646 AT	(475419.72, 3771202.39, 317.00, 317.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.03295 AT	(475240.74, 3771260.50, 316.00, 316.00, 0.00)	DC	

```
          6TH HIGHEST VALUE IS       0.02923 AT (  475058.56,  3770969.74,   314.00,
          314.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.02747 AT (  475026.44,  3770971.63,   314.00,
          314.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01751 AT (  474860.63,  3771085.83,   312.00,
          312.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01538 AT (  475486.73,  3771257.54,   318.00,
          318.00,    0.00)  DC
         10TH HIGHEST VALUE IS       0.01493 AT (  474864.18,  3771196.53,   313.00,
         313.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:05:09

                      PAGE 206
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          388 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          191 Calm Hours Identified

 A Total of          197 Missing Hours Identified (  0.45 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2766       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    2766       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/1/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\14882 Ops.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14882 Ops.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00001022
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 475029.664, 3771091.318, 314.08, 3.49, 4.00
** 475319.575, 3771091.318, 314.76, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000367     VOLUME   475033.959 3771091.318 314.14
   LOCATION L0000368     VOLUME   475042.549 3771091.318 314.43
   LOCATION L0000369     VOLUME   475051.139 3771091.318 314.71
   LOCATION L0000370     VOLUME   475059.729 3771091.318 315.00
   LOCATION L0000371     VOLUME   475068.319 3771091.318 315.00
   LOCATION L0000372     VOLUME   475076.909 3771091.318 315.00
   LOCATION L0000373     VOLUME   475085.499 3771091.318 315.00
   LOCATION L0000374     VOLUME   475094.089 3771091.318 315.00
   LOCATION L0000375     VOLUME   475102.679 3771091.318 315.00
   LOCATION L0000376     VOLUME   475111.269 3771091.318 315.00
   LOCATION L0000377     VOLUME   475119.859 3771091.318 315.00
   LOCATION L0000378     VOLUME   475128.449 3771091.318 315.14
   LOCATION L0000379     VOLUME   475137.039 3771091.318 315.29
   LOCATION L0000380     VOLUME   475145.629 3771091.318 315.43
   LOCATION L0000381     VOLUME   475154.219 3771091.318 315.50
   LOCATION L0000382     VOLUME   475162.809 3771091.318 315.50
   LOCATION L0000383     VOLUME   475171.399 3771091.318 315.50
```

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   LOCATION L0000384     VOLUME   475179.989 3771091.318 315.50
   LOCATION L0000385     VOLUME   475188.579 3771091.318 315.50
   LOCATION L0000386     VOLUME   475197.169 3771091.318 315.50
   LOCATION L0000387     VOLUME   475205.759 3771091.318 315.50
   LOCATION L0000388     VOLUME   475214.349 3771091.318 315.42
   LOCATION L0000389     VOLUME   475222.939 3771091.318 315.28
   LOCATION L0000390     VOLUME   475231.529 3771091.318 315.14
   LOCATION L0000391     VOLUME   475240.119 3771091.318 314.99
   LOCATION L0000392     VOLUME   475248.709 3771091.318 314.85
   LOCATION L0000393     VOLUME   475257.299 3771091.318 314.71
   LOCATION L0000394     VOLUME   475265.889 3771091.318 314.56
   LOCATION L0000395     VOLUME   475274.479 3771091.318 314.50
   LOCATION L0000396     VOLUME   475283.069 3771091.318 314.50
   LOCATION L0000397     VOLUME   475291.659 3771091.318 314.50
   LOCATION L0000398     VOLUME   475300.249 3771091.318 314.50
   LOCATION L0000399     VOLUME   475308.839 3771091.318 314.50
   LOCATION L0000400     VOLUME   475317.429 3771091.318 314.50
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.319E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 5
** 475011.546, 3771036.920, 314.00, 3.49, 4.00
** 475011.916, 3771067.662, 314.00, 3.49, 4.00
** 475018.213, 3771069.143, 314.00, 3.49, 4.00
** 475399.711, 3771073.958, 314.87, 3.49, 4.00
** 475400.082, 3771202.112, 317.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000401     VOLUME   475011.598 3771041.214 314.00
   LOCATION L0000402     VOLUME   475011.701 3771049.804 314.00
   LOCATION L0000403     VOLUME   475011.805 3771058.393 314.00
   LOCATION L0000404     VOLUME   475011.908 3771066.982 314.00
   LOCATION L0000405     VOLUME   475019.655 3771069.161 314.00
   LOCATION L0000406     VOLUME   475028.244 3771069.270 314.00
   LOCATION L0000407     VOLUME   475036.834 3771069.378 314.24
   LOCATION L0000408     VOLUME   475045.423 3771069.487 314.52
   LOCATION L0000409     VOLUME   475054.012 3771069.595 314.81
   LOCATION L0000410     VOLUME   475062.601 3771069.703 315.00
   LOCATION L0000411     VOLUME   475071.191 3771069.812 315.00
   LOCATION L0000412     VOLUME   475079.780 3771069.920 315.00
   LOCATION L0000413     VOLUME   475088.369 3771070.029 315.00
   LOCATION L0000414     VOLUME   475096.959 3771070.137 315.00
   LOCATION L0000415     VOLUME   475105.548 3771070.245 315.00
   LOCATION L0000416     VOLUME   475114.137 3771070.354 315.00
   LOCATION L0000417     VOLUME   475122.727 3771070.462 315.00
   LOCATION L0000418     VOLUME   475131.316 3771070.571 315.00
   LOCATION L0000419     VOLUME   475139.905 3771070.679 315.00
   LOCATION L0000420     VOLUME   475148.495 3771070.788 315.00
   LOCATION L0000421     VOLUME   475157.084 3771070.896 315.00
   LOCATION L0000422     VOLUME   475165.673 3771071.004 315.00
   LOCATION L0000423     VOLUME   475174.263 3771071.113 315.00
   LOCATION L0000424     VOLUME   475182.852 3771071.221 315.00
   LOCATION L0000425     VOLUME   475191.441 3771071.330 315.00
   LOCATION L0000426     VOLUME   475200.031 3771071.438 315.00
   LOCATION L0000427     VOLUME   475208.620 3771071.546 315.00
   LOCATION L0000428     VOLUME   475217.209 3771071.655 314.96
   LOCATION L0000429     VOLUME   475225.798 3771071.763 314.92
   LOCATION L0000430     VOLUME   475234.388 3771071.872 314.88
   LOCATION L0000431     VOLUME   475242.977 3771071.980 314.76
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   LOCATION L0000432     VOLUME   475251.566 3771072.088 314.52
   LOCATION L0000433     VOLUME   475260.156 3771072.197 314.28
   LOCATION L0000434     VOLUME   475268.745 3771072.305 314.03
   LOCATION L0000435     VOLUME   475277.334 3771072.414 314.00
   LOCATION L0000436     VOLUME   475285.924 3771072.522 314.00
   LOCATION L0000437     VOLUME   475294.513 3771072.630 314.00
   LOCATION L0000438     VOLUME   475303.102 3771072.739 314.00
   LOCATION L0000439     VOLUME   475311.692 3771072.847 314.00
   LOCATION L0000440     VOLUME   475320.281 3771072.956 314.00
   LOCATION L0000441     VOLUME   475328.870 3771073.064 314.00
   LOCATION L0000442     VOLUME   475337.460 3771073.172 314.00
   LOCATION L0000443     VOLUME   475346.049 3771073.281 314.00
   LOCATION L0000444     VOLUME   475354.638 3771073.389 314.00
   LOCATION L0000445     VOLUME   475363.228 3771073.498 314.10
   LOCATION L0000446     VOLUME   475371.817 3771073.606 314.36
   LOCATION L0000447     VOLUME   475380.406 3771073.715 314.63
   LOCATION L0000448     VOLUME   475388.995 3771073.823 314.89
   LOCATION L0000449     VOLUME   475397.585 3771073.931 314.92
   LOCATION L0000450     VOLUME   475399.730 3771080.421 315.00
   LOCATION L0000451     VOLUME   475399.755 3771089.011 315.00
   LOCATION L0000452     VOLUME   475399.780 3771097.601 315.00
   LOCATION L0000453     VOLUME   475399.805 3771106.191 315.00
   LOCATION L0000454     VOLUME   475399.829 3771114.781 315.19
   LOCATION L0000455     VOLUME   475399.854 3771123.371 315.38
   LOCATION L0000456     VOLUME   475399.879 3771131.961 315.57
   LOCATION L0000457     VOLUME   475399.904 3771140.551 315.86
   LOCATION L0000458     VOLUME   475399.929 3771149.141 316.24
   LOCATION L0000459     VOLUME   475399.953 3771157.731 316.62
   LOCATION L0000460     VOLUME   475399.978 3771166.321 317.00
   LOCATION L0000461     VOLUME   475400.003 3771174.911 317.00
   LOCATION L0000462     VOLUME   475400.028 3771183.501 317.00
   LOCATION L0000463     VOLUME   475400.053 3771192.091 317.00
   LOCATION L0000464     VOLUME   475400.078 3771200.681 317.00
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Norman 50%
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.306E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 6
** 475399.011, 3771210.421, 317.00, 3.49, 4.00
** 475254.185, 3771206.346, 316.00, 3.49, 4.00
** 475197.885, 3771204.124, 316.00, 3.49, 4.00
** 475098.988, 3771204.495, 315.00, 3.49, 4.00
** 474988.610, 3771205.606, 314.00, 3.49, 4.00
** 474924.531, 3771204.865, 313.42, 3.49, 4.00
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   LOCATION L0000465     VOLUME   475394.717 3771210.300 317.00
   LOCATION L0000466     VOLUME   475386.131 3771210.059 317.00
   LOCATION L0000467     VOLUME   475377.544 3771209.817 317.00
   LOCATION L0000468     VOLUME   475368.958 3771209.575 317.00
   LOCATION L0000469     VOLUME   475360.371 3771209.334 317.00
   LOCATION L0000470     VOLUME   475351.784 3771209.092 316.85
   LOCATION L0000471     VOLUME   475343.198 3771208.851 316.68
   LOCATION L0000472     VOLUME   475334.611 3771208.609 316.50
   LOCATION L0000473     VOLUME   475326.025 3771208.368 316.35
   LOCATION L0000474     VOLUME   475317.438 3771208.126 316.23
   LOCATION L0000475     VOLUME   475308.851 3771207.884 316.12
   LOCATION L0000476     VOLUME   475300.265 3771207.643 316.01
   LOCATION L0000477     VOLUME   475291.678 3771207.401 316.00
   LOCATION L0000478     VOLUME   475283.092 3771207.160 316.00
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   LOCATION L0000479     VOLUME   475274.505 3771206.918 316.00
   LOCATION L0000480     VOLUME   475265.918 3771206.677 316.00
   LOCATION L0000481     VOLUME   475257.332 3771206.435 316.00
   LOCATION L0000482     VOLUME   475248.747 3771206.132 316.00
   LOCATION L0000483     VOLUME   475240.164 3771205.793 316.00
   LOCATION L0000484     VOLUME   475231.581 3771205.454 316.00
   LOCATION L0000485     VOLUME   475222.997 3771205.115 316.00
   LOCATION L0000486     VOLUME   475214.414 3771204.777 316.00
   LOCATION L0000487     VOLUME   475205.831 3771204.438 316.00
   LOCATION L0000488     VOLUME   475197.247 3771204.126 316.00
   LOCATION L0000489     VOLUME   475188.657 3771204.159 316.00
   LOCATION L0000490     VOLUME   475180.067 3771204.191 316.00
   LOCATION L0000491     VOLUME   475171.477 3771204.223 316.00
   LOCATION L0000492     VOLUME   475162.887 3771204.255 316.00
   LOCATION L0000493     VOLUME   475154.297 3771204.287 316.00
   LOCATION L0000494     VOLUME   475145.707 3771204.320 315.86
   LOCATION L0000495     VOLUME   475137.117 3771204.352 315.58
   LOCATION L0000496     VOLUME   475128.527 3771204.384 315.29
   LOCATION L0000497     VOLUME   475119.937 3771204.416 315.01
   LOCATION L0000498     VOLUME   475111.347 3771204.448 315.00
   LOCATION L0000499     VOLUME   475102.758 3771204.480 315.00
   LOCATION L0000500     VOLUME   475094.168 3771204.543 315.00
   LOCATION L0000501     VOLUME   475085.578 3771204.629 315.00
   LOCATION L0000502     VOLUME   475076.989 3771204.716 315.00
   LOCATION L0000503     VOLUME   475068.399 3771204.802 315.00
   LOCATION L0000504     VOLUME   475059.810 3771204.889 315.00
   LOCATION L0000505     VOLUME   475051.220 3771204.975 314.71
   LOCATION L0000506     VOLUME   475042.630 3771205.062 314.43
   LOCATION L0000507     VOLUME   475034.041 3771205.148 314.14
   LOCATION L0000508     VOLUME   475025.451 3771205.235 314.00
   LOCATION L0000509     VOLUME   475016.862 3771205.321 314.00
   LOCATION L0000510     VOLUME   475008.272 3771205.408 314.00
   LOCATION L0000511     VOLUME   474999.683 3771205.494 314.00
   LOCATION L0000512     VOLUME   474991.093 3771205.581 314.00
   LOCATION L0000513     VOLUME   474982.504 3771205.535 314.00
   LOCATION L0000514     VOLUME   474973.914 3771205.436 314.00
   LOCATION L0000515     VOLUME   474965.325 3771205.337 314.00
   LOCATION L0000516     VOLUME   474956.735 3771205.237 314.00
   LOCATION L0000517     VOLUME   474948.146 3771205.138 314.00
   LOCATION L0000518     VOLUME   474939.556 3771205.039 313.99
   LOCATION L0000519     VOLUME   474930.967 3771204.939 313.71
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Lena 50%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 4.701E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 474923.790, 3771204.865, 313.39, 3.49, 6.51
** 474923.049, 3771034.111, 312.29, 3.49, 6.51
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   LOCATION L0000520     VOLUME   474923.759 3771197.865 313.47
   LOCATION L0000521     VOLUME   474923.699 3771183.865 313.46
   LOCATION L0000522     VOLUME   474923.638 3771169.865 313.46
   LOCATION L0000523     VOLUME   474923.577 3771155.865 313.30
   LOCATION L0000524     VOLUME   474923.517 3771141.865 313.08
   LOCATION L0000525     VOLUME   474923.456 3771127.866 313.00
   LOCATION L0000526     VOLUME   474923.395 3771113.866 313.00
   LOCATION L0000527     VOLUME   474923.334 3771099.866 313.00
   LOCATION L0000528     VOLUME   474923.274 3771085.866 313.00
   LOCATION L0000529     VOLUME   474923.213 3771071.866 312.92
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   LOCATION L0000530     VOLUME   474923.152 3771057.866 312.66
   LOCATION L0000531     VOLUME   474923.091 3771043.866 312.44
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Orange Show 50%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.447E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 475011.574, 3771024.481, 314.00, 3.49, 6.51
** 474922.679, 3771025.963, 312.35, 3.49, 6.51
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   LOCATION L0000532     VOLUME   475004.575 3771024.598 314.00
   LOCATION L0000533     VOLUME   474990.577 3771024.831 314.00
   LOCATION L0000534     VOLUME   474976.579 3771025.064 314.00
   LOCATION L0000535     VOLUME   474962.581 3771025.298 313.76
   LOCATION L0000536     VOLUME   474948.583 3771025.531 313.29
   LOCATION L0000537     VOLUME   474934.585 3771025.764 312.83
** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Orange Show 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00001346
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 11
** 474923.419, 3771025.963, 312.37, 3.49, 6.51
** 474784.520, 3771027.074, 311.08, 3.49, 6.51
** 473905.130, 3771031.156, 306.94, 3.49, 6.51
** 473619.241, 3771029.950, 304.08, 3.49, 6.51
** 473162.664, 3771022.712, 301.05, 3.49, 6.51
** 472977.500, 3771019.697, 300.00, 3.49, 6.51
** 472876.172, 3771019.697, 299.96, 3.49, 6.51
** 472850.237, 3771007.634, 299.83, 3.49, 6.51
** 472786.907, 3770976.271, 299.47, 3.49, 6.51
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** 472569.173, 3770773.012, 298.00, 3.49, 6.51
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   LOCATION L0000539     VOLUME   474902.420 3771026.131 312.00
   LOCATION L0000540     VOLUME   474888.421 3771026.243 312.00
   LOCATION L0000541     VOLUME   474874.421 3771026.355 312.00
   LOCATION L0000542     VOLUME   474860.421 3771026.467 312.00
   LOCATION L0000543     VOLUME   474846.422 3771026.579 312.00
   LOCATION L0000544     VOLUME   474832.422 3771026.691 312.00
   LOCATION L0000545     VOLUME   474818.423 3771026.803 311.95
   LOCATION L0000546     VOLUME   474804.423 3771026.915 311.49
   LOCATION L0000547     VOLUME   474790.424 3771027.027 311.02
   LOCATION L0000548     VOLUME   474776.424 3771027.111 311.00
   LOCATION L0000549     VOLUME   474762.424 3771027.176 311.00
   LOCATION L0000550     VOLUME   474748.424 3771027.241 311.00
   LOCATION L0000551     VOLUME   474734.424 3771027.306 311.00
   LOCATION L0000552     VOLUME   474720.425 3771027.371 311.00
   LOCATION L0000553     VOLUME   474706.425 3771027.436 311.00
   LOCATION L0000554     VOLUME   474692.425 3771027.501 311.00
   LOCATION L0000555     VOLUME   474678.425 3771027.566 311.00
   LOCATION L0000556     VOLUME   474664.425 3771027.631 310.82
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LOCATION L0000559 VOLUME 474622.426 3771027.826 310.00
LOCATION L0000560 VOLUME 474608.426 3771027.891 310.00
LOCATION L0000561 VOLUME 474594.426 3771027.956 310.00
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LOCATION L0000586 VOLUME 474244.430 3771029.581 308.82
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LOCATION L0000588 VOLUME 474216.430 3771029.711 308.00
LOCATION L0000589 VOLUME 474202.430 3771029.776 308.00
LOCATION L0000590 VOLUME 474188.430 3771029.841 308.00
LOCATION L0000591 VOLUME 474174.430 3771029.906 308.00
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LOCATION L0000593 VOLUME 474146.431 3771030.036 308.00
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LOCATION L0000613 VOLUME 473866.434 3771030.993 306.62
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LOCATION L0000615 VOLUME 473838.434 3771030.875 306.15
LOCATION L0000616 VOLUME 473824.434 3771030.816 306.00
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LOCATION L0000620 VOLUME 473768.435 3771030.580 305.96
LOCATION L0000621 VOLUME 473754.435 3771030.521 305.49
LOCATION L0000622 VOLUME 473740.435 3771030.461 305.02

LOCATION L0000623 VOLUME 473726.435 3771030.402 305.00
LOCATION L0000624 VOLUME 473712.435 3771030.343 305.00
LOCATION L0000625 VOLUME 473698.435 3771030.284 305.00
LOCATION L0000626 VOLUME 473684.435 3771030.225 305.00
LOCATION L0000627 VOLUME 473670.435 3771030.166 305.00
LOCATION L0000628 VOLUME 473656.436 3771030.107 305.00
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LOCATION L0000632 VOLUME 473600.438 3771029.652 304.00
LOCATION L0000633 VOLUME 473586.440 3771029.430 304.00
LOCATION L0000634 VOLUME 473572.442 3771029.208 304.00
LOCATION L0000635 VOLUME 473558.444 3771028.986 304.00
LOCATION L0000636 VOLUME 473544.445 3771028.764 304.00
LOCATION L0000637 VOLUME 473530.447 3771028.542 304.00
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LOCATION L0000639 VOLUME 473502.451 3771028.099 303.45
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LOCATION L0000641 VOLUME 473474.454 3771027.655 303.06
LOCATION L0000642 VOLUME 473460.456 3771027.433 303.00
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LOCATION L0000645 VOLUME 473418.461 3771026.767 303.00
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LOCATION L0000648 VOLUME 473376.466 3771026.102 302.93
LOCATION L0000649 VOLUME 473362.468 3771025.880 302.61
LOCATION L0000650 VOLUME 473348.470 3771025.658 302.30
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LOCATION L0000657 VOLUME 473250.482 3771024.104 302.00
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LOCATION L0000659 VOLUME 473222.486 3771023.661 302.00
LOCATION L0000660 VOLUME 473208.488 3771023.439 302.00
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LOCATION L0000662 VOLUME 473180.491 3771022.995 301.50
LOCATION L0000663 VOLUME 473166.493 3771022.773 301.19
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LOCATION L0000665 VOLUME 473138.496 3771022.319 301.00
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LOCATION L0000669 VOLUME 473082.504 3771021.407 301.00
LOCATION L0000670 VOLUME 473068.506 3771021.179 301.00
LOCATION L0000671 VOLUME 473054.508 3771020.951 301.00
LOCATION L0000672 VOLUME 473040.509 3771020.723 301.00
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LOCATION L0000676 VOLUME 472984.517 3771019.811 300.09
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LOCATION L0000687 VOLUME 472834.957 3771000.067 299.54
LOCATION L0000688 VOLUME 472822.411 3770993.854 299.68

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   LOCATION L0000689     VOLUME   472809.865 3770987.640 300.00
   LOCATION L0000690     VOLUME   472797.320 3770981.427 299.56
   LOCATION L0000691     VOLUME   472785.109 3770974.710 299.43
   LOCATION L0000692     VOLUME   472774.537 3770965.533 299.92
   LOCATION L0000693     VOLUME   472763.965 3770956.355 300.53
   LOCATION L0000694     VOLUME   472753.392 3770947.178 300.84
   LOCATION L0000695     VOLUME   472742.820 3770938.000 301.28
   LOCATION L0000696     VOLUME   472732.248 3770928.823 302.07
   LOCATION L0000697     VOLUME   472721.675 3770919.646 303.07
   LOCATION L0000698     VOLUME   472711.103 3770910.468 303.53
   LOCATION L0000699     VOLUME   472700.530 3770901.291 303.84
   LOCATION L0000700     VOLUME   472690.491 3770891.535 304.14
   LOCATION L0000701     VOLUME   472680.477 3770881.751 303.72
   LOCATION L0000702     VOLUME   472670.463 3770871.968 303.01
   LOCATION L0000703     VOLUME   472660.449 3770862.184 302.06
   LOCATION L0000704     VOLUME   472650.434 3770852.401 301.07
   LOCATION L0000705     VOLUME   472640.420 3770842.617 300.07
   LOCATION L0000706     VOLUME   472630.406 3770832.834 299.30
   LOCATION L0000707     VOLUME   472620.392 3770823.050 299.44
   LOCATION L0000708     VOLUME   472610.378 3770813.267 299.40
   LOCATION L0000709     VOLUME   472600.363 3770803.483 298.95
   LOCATION L0000710     VOLUME   472590.349 3770793.700 298.58
   LOCATION L0000711     VOLUME   472580.335 3770783.917 298.25
   LOCATION L0000712     VOLUME   472570.321 3770774.133 298.00
** End of LINE VOLUME Source ID = SLINE6
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0000368     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000369     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000370     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000371     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000372     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000373     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000374     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000375     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000376     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000377     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000378     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000379     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000380     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000381     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000382     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000383     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000384     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000385     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000386     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000387     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000388     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000389     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000390     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000391     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000392     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000393     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000394     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000395     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000396     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000397     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000398     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000399     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000400     0.0000003006      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000401     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000402     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000403     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000404     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000405     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000406     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000407     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000408     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000409     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000410     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000411     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000412     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000413     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000414     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000415     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000416     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000417     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000462     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000463     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000464     0.0000001144      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0000465     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000466     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000467     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000468     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000471     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000472     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000473     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000474     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000475     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000476     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000478     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000479     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000481     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000482     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000483     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000484     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000485     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000486     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000487     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000488     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000489     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000492     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000493     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000494     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000495     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000518     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000519     0.00000002375      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0000520     0.00000003917      3.49      6.51      3.25
   SRCPARAM L0000521     0.00000003917      3.49      6.51      3.25
   SRCPARAM L0000522     0.00000003917      3.49      6.51      3.25
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   SRCPARAM L0000524     0.00000003917      3.49      6.51      3.25
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   SRCPARAM L0000526     0.00000003917      3.49      6.51      3.25
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   SRCPARAM L0000528     0.00000003917      3.49      6.51      3.25
   SRCPARAM L0000529     0.00000003917      3.49      6.51      3.25
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   SRCPARAM L0000531     0.00000003917      3.49      6.51      3.25
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** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0000532     0.00000004078      3.49      6.51      3.25
   SRCPARAM L0000533     0.00000004078      3.49      6.51      3.25
   SRCPARAM L0000534     0.00000004078      3.49      6.51      3.25
   SRCPARAM L0000535     0.00000004078      3.49      6.51      3.25
   SRCPARAM L0000536     0.00000004078      3.49      6.51      3.25
   SRCPARAM L0000537     0.00000004078      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0000538     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000539     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000540     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000541     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000542     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000543     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000544     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000545     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000546     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000547     0.00000007691      3.49      6.51      3.25
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   SRCPARAM L0000675     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000676     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000677     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000678     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000679     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000680     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000681     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000682     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000683     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000684     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000685     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000686     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000687     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000688     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000689     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000690     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000691     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000692     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000693     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000694     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000695     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000696     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000697     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000698     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000699     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000700     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000701     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000702     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000703     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000704     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000705     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000706     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000707     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000708     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000709     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000710     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000711     0.00000007691      3.49      6.51      3.25
   SRCPARAM L0000712     0.00000007691      3.49      6.51      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
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** AERMOD Receptor Pathway
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**
**
RE STARTING
   INCLUDED "14882 Ops.rou"
RE FINISHED
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**
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** AERMOD Meteorology Pathway
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**
**
ME STARTING
   SURFFILE RDLD_V9_ADJU\RDLD_v9.SFC
   PROFFILE RDLD_V9_ADJU\RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
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**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "14882 Ops.AD\AN00GALL.PLT" 31
   SUMMFILE "14882 Ops.sum"
OU FINISHED
**
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/1/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\14882 Ops.ADI
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**
**
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** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway South\14882 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14882 Ops.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00001022
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 475029.664, 3771091.318, 314.08, 3.49, 4.00
** 475319.575, 3771091.318, 314.76, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000367     VOLUME   475033.959 3771091.318 314.14
   LOCATION L0000368     VOLUME   475042.549 3771091.318 314.43
   LOCATION L0000369     VOLUME   475051.139 3771091.318 314.71
   LOCATION L0000370     VOLUME   475059.729 3771091.318 315.00
   LOCATION L0000371     VOLUME   475068.319 3771091.318 315.00
   LOCATION L0000372     VOLUME   475076.909 3771091.318 315.00
   LOCATION L0000373     VOLUME   475085.499 3771091.318 315.00
   LOCATION L0000374     VOLUME   475094.089 3771091.318 315.00
   LOCATION L0000375     VOLUME   475102.679 3771091.318 315.00
   LOCATION L0000376     VOLUME   475111.269 3771091.318 315.00
   LOCATION L0000377     VOLUME   475119.859 3771091.318 315.00
   LOCATION L0000378     VOLUME   475128.449 3771091.318 315.14
   LOCATION L0000379     VOLUME   475137.039 3771091.318 315.29
   LOCATION L0000380     VOLUME   475145.629 3771091.318 315.43
   LOCATION L0000381     VOLUME   475154.219 3771091.318 315.50
   LOCATION L0000382     VOLUME   475162.809 3771091.318 315.50
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   LOCATION L0000383     VOLUME   475171.399 3771091.318 315.50
   LOCATION L0000384     VOLUME   475179.989 3771091.318 315.50
   LOCATION L0000385     VOLUME   475188.579 3771091.318 315.50
   LOCATION L0000386     VOLUME   475197.169 3771091.318 315.50
   LOCATION L0000387     VOLUME   475205.759 3771091.318 315.50
   LOCATION L0000388     VOLUME   475214.349 3771091.318 315.42
   LOCATION L0000389     VOLUME   475222.939 3771091.318 315.28
   LOCATION L0000390     VOLUME   475231.529 3771091.318 315.14
   LOCATION L0000391     VOLUME   475240.119 3771091.318 314.99
   LOCATION L0000392     VOLUME   475248.709 3771091.318 314.85
   LOCATION L0000393     VOLUME   475257.299 3771091.318 314.71
   LOCATION L0000394     VOLUME   475265.889 3771091.318 314.56
   LOCATION L0000395     VOLUME   475274.479 3771091.318 314.50
   LOCATION L0000396     VOLUME   475283.069 3771091.318 314.50
   LOCATION L0000397     VOLUME   475291.659 3771091.318 314.50
   LOCATION L0000398     VOLUME   475300.249 3771091.318 314.50
   LOCATION L0000399     VOLUME   475308.839 3771091.318 314.50
   LOCATION L0000400     VOLUME   475317.429 3771091.318 314.50
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.319E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 5
** 475011.546, 3771036.920, 314.00, 3.49, 4.00
** 475011.916, 3771067.662, 314.00, 3.49, 4.00
** 475018.213, 3771069.143, 314.00, 3.49, 4.00
** 475399.711, 3771073.958, 314.87, 3.49, 4.00
** 475400.082, 3771202.112, 317.00, 3.49, 4.00
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   LOCATION L0000401     VOLUME   475011.598 3771041.214 314.00
   LOCATION L0000402     VOLUME   475011.701 3771049.804 314.00
   LOCATION L0000403     VOLUME   475011.805 3771058.393 314.00
   LOCATION L0000404     VOLUME   475011.908 3771066.982 314.00
   LOCATION L0000405     VOLUME   475019.655 3771069.161 314.00
   LOCATION L0000406     VOLUME   475028.244 3771069.270 314.00
   LOCATION L0000407     VOLUME   475036.834 3771069.378 314.24
   LOCATION L0000408     VOLUME   475045.423 3771069.487 314.52
   LOCATION L0000409     VOLUME   475054.012 3771069.595 314.81
   LOCATION L0000410     VOLUME   475062.601 3771069.703 315.00
   LOCATION L0000411     VOLUME   475071.191 3771069.812 315.00
   LOCATION L0000412     VOLUME   475079.780 3771069.920 315.00
   LOCATION L0000413     VOLUME   475088.369 3771070.029 315.00
   LOCATION L0000414     VOLUME   475096.959 3771070.137 315.00
   LOCATION L0000415     VOLUME   475105.548 3771070.245 315.00
   LOCATION L0000416     VOLUME   475114.137 3771070.354 315.00
   LOCATION L0000417     VOLUME   475122.727 3771070.462 315.00
   LOCATION L0000418     VOLUME   475131.316 3771070.571 315.00
   LOCATION L0000419     VOLUME   475139.905 3771070.679 315.00
   LOCATION L0000420     VOLUME   475148.495 3771070.788 315.00
   LOCATION L0000421     VOLUME   475157.084 3771070.896 315.00
   LOCATION L0000422     VOLUME   475165.673 3771071.004 315.00
   LOCATION L0000423     VOLUME   475174.263 3771071.113 315.00
   LOCATION L0000424     VOLUME   475182.852 3771071.221 315.00
   LOCATION L0000425     VOLUME   475191.441 3771071.330 315.00
   LOCATION L0000426     VOLUME   475200.031 3771071.438 315.00
   LOCATION L0000427     VOLUME   475208.620 3771071.546 315.00
   LOCATION L0000428     VOLUME   475217.209 3771071.655 314.96
   LOCATION L0000429     VOLUME   475225.798 3771071.763 314.92
   LOCATION L0000430     VOLUME   475234.388 3771071.872 314.88
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   LOCATION L0000431     VOLUME   475242.977 3771071.980 314.76
   LOCATION L0000432     VOLUME   475251.566 3771072.088 314.52
   LOCATION L0000433     VOLUME   475260.156 3771072.197 314.28
   LOCATION L0000434     VOLUME   475268.745 3771072.305 314.03
   LOCATION L0000435     VOLUME   475277.334 3771072.414 314.00
   LOCATION L0000436     VOLUME   475285.924 3771072.522 314.00
   LOCATION L0000437     VOLUME   475294.513 3771072.630 314.00
   LOCATION L0000438     VOLUME   475303.102 3771072.739 314.00
   LOCATION L0000439     VOLUME   475311.692 3771072.847 314.00
   LOCATION L0000440     VOLUME   475320.281 3771072.956 314.00
   LOCATION L0000441     VOLUME   475328.870 3771073.064 314.00
   LOCATION L0000442     VOLUME   475337.460 3771073.172 314.00
   LOCATION L0000443     VOLUME   475346.049 3771073.281 314.00
   LOCATION L0000444     VOLUME   475354.638 3771073.389 314.00
   LOCATION L0000445     VOLUME   475363.228 3771073.498 314.10
   LOCATION L0000446     VOLUME   475371.817 3771073.606 314.36
   LOCATION L0000447     VOLUME   475380.406 3771073.715 314.63
   LOCATION L0000448     VOLUME   475388.995 3771073.823 314.89
   LOCATION L0000449     VOLUME   475397.585 3771073.931 314.92
   LOCATION L0000450     VOLUME   475399.730 3771080.421 315.00
   LOCATION L0000451     VOLUME   475399.755 3771089.011 315.00
   LOCATION L0000452     VOLUME   475399.780 3771097.601 315.00
   LOCATION L0000453     VOLUME   475399.805 3771106.191 315.00
   LOCATION L0000454     VOLUME   475399.829 3771114.781 315.19
   LOCATION L0000455     VOLUME   475399.854 3771123.371 315.38
   LOCATION L0000456     VOLUME   475399.879 3771131.961 315.57
   LOCATION L0000457     VOLUME   475399.904 3771140.551 315.86
   LOCATION L0000458     VOLUME   475399.929 3771149.141 316.24
   LOCATION L0000459     VOLUME   475399.953 3771157.731 316.62
   LOCATION L0000460     VOLUME   475399.978 3771166.321 317.00
   LOCATION L0000461     VOLUME   475400.003 3771174.911 317.00
   LOCATION L0000462     VOLUME   475400.028 3771183.501 317.00
   LOCATION L0000463     VOLUME   475400.053 3771192.091 317.00
   LOCATION L0000464     VOLUME   475400.078 3771200.681 317.00
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Norman 50%
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.306E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 6
** 475399.011, 3771210.421, 317.00, 3.49, 4.00
** 475254.185, 3771206.346, 316.00, 3.49, 4.00
** 475197.885, 3771204.124, 316.00, 3.49, 4.00
** 475098.988, 3771204.495, 315.00, 3.49, 4.00
** 474988.610, 3771205.606, 314.00, 3.49, 4.00
** 474924.531, 3771204.865, 313.42, 3.49, 4.00
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   LOCATION L0000465     VOLUME   475394.717 3771210.300 317.00
   LOCATION L0000466     VOLUME   475386.131 3771210.059 317.00
   LOCATION L0000467     VOLUME   475377.544 3771209.817 317.00
   LOCATION L0000468     VOLUME   475368.958 3771209.575 317.00
   LOCATION L0000469     VOLUME   475360.371 3771209.334 317.00
   LOCATION L0000470     VOLUME   475351.784 3771209.092 316.85
   LOCATION L0000471     VOLUME   475343.198 3771208.851 316.68
   LOCATION L0000472     VOLUME   475334.611 3771208.609 316.50
   LOCATION L0000473     VOLUME   475326.025 3771208.368 316.35
   LOCATION L0000474     VOLUME   475317.438 3771208.126 316.23
   LOCATION L0000475     VOLUME   475308.851 3771207.884 316.12
   LOCATION L0000476     VOLUME   475300.265 3771207.643 316.01
   LOCATION L0000477     VOLUME   475291.678 3771207.401 316.00
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   LOCATION L0000478     VOLUME   475283.092 3771207.160 316.00
   LOCATION L0000479     VOLUME   475274.505 3771206.918 316.00
   LOCATION L0000480     VOLUME   475265.918 3771206.677 316.00
   LOCATION L0000481     VOLUME   475257.332 3771206.435 316.00
   LOCATION L0000482     VOLUME   475248.747 3771206.132 316.00
   LOCATION L0000483     VOLUME   475240.164 3771205.793 316.00
   LOCATION L0000484     VOLUME   475231.581 3771205.454 316.00
   LOCATION L0000485     VOLUME   475222.997 3771205.115 316.00
   LOCATION L0000486     VOLUME   475214.414 3771204.777 316.00
   LOCATION L0000487     VOLUME   475205.831 3771204.438 316.00
   LOCATION L0000488     VOLUME   475197.247 3771204.126 316.00
   LOCATION L0000489     VOLUME   475188.657 3771204.159 316.00
   LOCATION L0000490     VOLUME   475180.067 3771204.191 316.00
   LOCATION L0000491     VOLUME   475171.477 3771204.223 316.00
   LOCATION L0000492     VOLUME   475162.887 3771204.255 316.00
   LOCATION L0000493     VOLUME   475154.297 3771204.287 316.00
   LOCATION L0000494     VOLUME   475145.707 3771204.320 315.86
   LOCATION L0000495     VOLUME   475137.117 3771204.352 315.58
   LOCATION L0000496     VOLUME   475128.527 3771204.384 315.29
   LOCATION L0000497     VOLUME   475119.937 3771204.416 315.01
   LOCATION L0000498     VOLUME   475111.347 3771204.448 315.00
   LOCATION L0000499     VOLUME   475102.758 3771204.480 315.00
   LOCATION L0000500     VOLUME   475094.168 3771204.543 315.00
   LOCATION L0000501     VOLUME   475085.578 3771204.629 315.00
   LOCATION L0000502     VOLUME   475076.989 3771204.716 315.00
   LOCATION L0000503     VOLUME   475068.399 3771204.802 315.00
   LOCATION L0000504     VOLUME   475059.810 3771204.889 315.00
   LOCATION L0000505     VOLUME   475051.220 3771204.975 314.71
   LOCATION L0000506     VOLUME   475042.630 3771205.062 314.43
   LOCATION L0000507     VOLUME   475034.041 3771205.148 314.14
   LOCATION L0000508     VOLUME   475025.451 3771205.235 314.00
   LOCATION L0000509     VOLUME   475016.862 3771205.321 314.00
   LOCATION L0000510     VOLUME   475008.272 3771205.408 314.00
   LOCATION L0000511     VOLUME   474999.683 3771205.494 314.00
   LOCATION L0000512     VOLUME   474991.093 3771205.581 314.00
   LOCATION L0000513     VOLUME   474982.504 3771205.535 314.00
   LOCATION L0000514     VOLUME   474973.914 3771205.436 314.00
   LOCATION L0000515     VOLUME   474965.325 3771205.337 314.00
   LOCATION L0000516     VOLUME   474956.735 3771205.237 314.00
   LOCATION L0000517     VOLUME   474948.146 3771205.138 314.00
   LOCATION L0000518     VOLUME   474939.556 3771205.039 313.99
   LOCATION L0000519     VOLUME   474930.967 3771204.939 313.71
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Lena 50%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 4.701E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 474923.790, 3771204.865, 313.39, 3.49, 6.51
** 474923.049, 3771034.111, 312.29, 3.49, 6.51
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   LOCATION L0000520     VOLUME   474923.759 3771197.865 313.47
   LOCATION L0000521     VOLUME   474923.699 3771183.865 313.46
   LOCATION L0000522     VOLUME   474923.638 3771169.865 313.46
   LOCATION L0000523     VOLUME   474923.577 3771155.865 313.30
   LOCATION L0000524     VOLUME   474923.517 3771141.865 313.08
   LOCATION L0000525     VOLUME   474923.456 3771127.866 313.00
   LOCATION L0000526     VOLUME   474923.395 3771113.866 313.00
   LOCATION L0000527     VOLUME   474923.334 3771099.866 313.00
   LOCATION L0000528     VOLUME   474923.274 3771085.866 313.00
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   LOCATION L0000529     VOLUME   474923.213 3771071.866 312.92
   LOCATION L0000530     VOLUME   474923.152 3771057.866 312.66
   LOCATION L0000531     VOLUME   474923.091 3771043.866 312.44
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Orange Show 50%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.447E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 475011.574, 3771024.481, 314.00, 3.49, 6.51
** 474922.679, 3771025.963, 312.35, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000532     VOLUME   475004.575 3771024.598 314.00
   LOCATION L0000533     VOLUME   474990.577 3771024.831 314.00
   LOCATION L0000534     VOLUME   474976.579 3771025.064 314.00
   LOCATION L0000535     VOLUME   474962.581 3771025.298 313.76
   LOCATION L0000536     VOLUME   474948.583 3771025.531 313.29
   LOCATION L0000537     VOLUME   474934.585 3771025.764 312.83
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Orange Show 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00001346
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 11
** 474923.419, 3771025.963, 312.37, 3.49, 6.51
** 474784.520, 3771027.074, 311.08, 3.49, 6.51
** 473905.130, 3771031.156, 306.94, 3.49, 6.51
** 473619.241, 3771029.950, 304.08, 3.49, 6.51
** 473162.664, 3771022.712, 301.05, 3.49, 6.51
** 472977.500, 3771019.697, 300.00, 3.49, 6.51
** 472876.172, 3771019.697, 299.96, 3.49, 6.51
** 472850.237, 3771007.634, 299.83, 3.49, 6.51
** 472786.907, 3770976.271, 299.47, 3.49, 6.51
** 472700.055, 3770900.878, 303.96, 3.49, 6.51
** 472569.173, 3770773.012, 298.00, 3.49, 6.51
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   LOCATION L0000538     VOLUME   474916.420 3771026.019 312.22
   LOCATION L0000539     VOLUME   474902.420 3771026.131 312.00
   LOCATION L0000540     VOLUME   474888.421 3771026.243 312.00
   LOCATION L0000541     VOLUME   474874.421 3771026.355 312.00
   LOCATION L0000542     VOLUME   474860.421 3771026.467 312.00
   LOCATION L0000543     VOLUME   474846.422 3771026.579 312.00
   LOCATION L0000544     VOLUME   474832.422 3771026.691 312.00
   LOCATION L0000545     VOLUME   474818.423 3771026.803 311.95
   LOCATION L0000546     VOLUME   474804.423 3771026.915 311.49
   LOCATION L0000547     VOLUME   474790.424 3771027.027 311.02
   LOCATION L0000548     VOLUME   474776.424 3771027.111 311.00
   LOCATION L0000549     VOLUME   474762.424 3771027.176 311.00
   LOCATION L0000550     VOLUME   474748.424 3771027.241 311.00
   LOCATION L0000551     VOLUME   474734.424 3771027.306 311.00
   LOCATION L0000552     VOLUME   474720.425 3771027.371 311.00
   LOCATION L0000553     VOLUME   474706.425 3771027.436 311.00
   LOCATION L0000554     VOLUME   474692.425 3771027.501 311.00
   LOCATION L0000555     VOLUME   474678.425 3771027.566 311.00
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LOCATION L0000556 VOLUME 474664.425 3771027.631 310.82
LOCATION L0000557 VOLUME 474650.425 3771027.696 310.36
LOCATION L0000558 VOLUME 474636.426 3771027.761 310.00
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LOCATION L0000567 VOLUME 474510.427 3771028.346 310.00
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LOCATION L0000575 VOLUME 474398.428 3771028.866 309.00
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LOCATION L0000578 VOLUME 474356.429 3771029.061 309.00
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LOCATION L0000581 VOLUME 474314.429 3771029.256 309.00
LOCATION L0000582 VOLUME 474300.429 3771029.321 309.00
LOCATION L0000583 VOLUME 474286.429 3771029.386 309.00
LOCATION L0000584 VOLUME 474272.429 3771029.451 309.00
LOCATION L0000585 VOLUME 474258.430 3771029.516 309.00
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LOCATION L0000588 VOLUME 474216.430 3771029.711 308.00
LOCATION L0000589 VOLUME 474202.430 3771029.776 308.00
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LOCATION L0000596 VOLUME 474104.431 3771030.231 308.00
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LOCATION L0000599 VOLUME 474062.432 3771030.426 308.00
LOCATION L0000600 VOLUME 474048.432 3771030.491 308.00
LOCATION L0000601 VOLUME 474034.432 3771030.556 308.00
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LOCATION L0000605 VOLUME 473978.433 3771030.816 307.00
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LOCATION L0000607 VOLUME 473950.433 3771030.946 307.00
LOCATION L0000608 VOLUME 473936.433 3771031.011 307.00
LOCATION L0000609 VOLUME 473922.433 3771031.076 307.00
LOCATION L0000610 VOLUME 473908.433 3771031.141 307.00
LOCATION L0000611 VOLUME 473894.433 3771031.111 307.00
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LOCATION L0000613 VOLUME 473866.434 3771030.993 306.62
LOCATION L0000614 VOLUME 473852.434 3771030.934 306.39
LOCATION L0000615 VOLUME 473838.434 3771030.875 306.15
LOCATION L0000616 VOLUME 473824.434 3771030.816 306.00
LOCATION L0000617 VOLUME 473810.434 3771030.757 306.00
LOCATION L0000618 VOLUME 473796.434 3771030.698 306.00
LOCATION L0000619 VOLUME 473782.434 3771030.639 306.00
LOCATION L0000620 VOLUME 473768.435 3771030.580 305.96
LOCATION L0000621 VOLUME 473754.435 3771030.521 305.49

LOCATION L0000622 VOLUME 473740.435 3771030.461 305.02
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LOCATION L0000624 VOLUME 473712.435 3771030.343 305.00
LOCATION L0000625 VOLUME 473698.435 3771030.284 305.00
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LOCATION L0000629 VOLUME 473642.436 3771030.048 304.76
LOCATION L0000630 VOLUME 473628.436 3771029.989 304.29
LOCATION L0000631 VOLUME 473614.437 3771029.874 304.00
LOCATION L0000632 VOLUME 473600.438 3771029.652 304.00
LOCATION L0000633 VOLUME 473586.440 3771029.430 304.00
LOCATION L0000634 VOLUME 473572.442 3771029.208 304.00
LOCATION L0000635 VOLUME 473558.444 3771028.986 304.00
LOCATION L0000636 VOLUME 473544.445 3771028.764 304.00
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LOCATION L0000639 VOLUME 473502.451 3771028.099 303.45
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LOCATION L0000641 VOLUME 473474.454 3771027.655 303.06
LOCATION L0000642 VOLUME 473460.456 3771027.433 303.00
LOCATION L0000643 VOLUME 473446.458 3771027.211 303.00
LOCATION L0000644 VOLUME 473432.459 3771026.989 303.00
LOCATION L0000645 VOLUME 473418.461 3771026.767 303.00
LOCATION L0000646 VOLUME 473404.463 3771026.545 303.00
LOCATION L0000647 VOLUME 473390.465 3771026.323 303.00
LOCATION L0000648 VOLUME 473376.466 3771026.102 302.93
LOCATION L0000649 VOLUME 473362.468 3771025.880 302.61
LOCATION L0000650 VOLUME 473348.470 3771025.658 302.30
LOCATION L0000651 VOLUME 473334.472 3771025.436 302.15
LOCATION L0000652 VOLUME 473320.473 3771025.214 302.01
LOCATION L0000653 VOLUME 473306.475 3771024.992 302.00
LOCATION L0000654 VOLUME 473292.477 3771024.770 302.00
LOCATION L0000655 VOLUME 473278.479 3771024.548 302.00
LOCATION L0000656 VOLUME 473264.480 3771024.326 302.00
LOCATION L0000657 VOLUME 473250.482 3771024.104 302.00
LOCATION L0000658 VOLUME 473236.484 3771023.883 302.00
LOCATION L0000659 VOLUME 473222.486 3771023.661 302.00
LOCATION L0000660 VOLUME 473208.488 3771023.439 302.00
LOCATION L0000661 VOLUME 473194.489 3771023.217 301.86
LOCATION L0000662 VOLUME 473180.491 3771022.995 301.50
LOCATION L0000663 VOLUME 473166.493 3771022.773 301.19
LOCATION L0000664 VOLUME 473152.495 3771022.547 301.09
LOCATION L0000665 VOLUME 473138.496 3771022.319 301.00
LOCATION L0000666 VOLUME 473124.498 3771022.091 301.00
LOCATION L0000667 VOLUME 473110.500 3771021.863 301.00
LOCATION L0000668 VOLUME 473096.502 3771021.635 301.00
LOCATION L0000669 VOLUME 473082.504 3771021.407 301.00
LOCATION L0000670 VOLUME 473068.506 3771021.179 301.00
LOCATION L0000671 VOLUME 473054.508 3771020.951 301.00
LOCATION L0000672 VOLUME 473040.509 3771020.723 301.00
LOCATION L0000673 VOLUME 473026.511 3771020.495 301.00
LOCATION L0000674 VOLUME 473012.513 3771020.267 300.79
LOCATION L0000675 VOLUME 472998.515 3771020.039 300.38
LOCATION L0000676 VOLUME 472984.517 3771019.811 300.09
LOCATION L0000677 VOLUME 472970.518 3771019.697 300.04
LOCATION L0000678 VOLUME 472956.518 3771019.697 300.00
LOCATION L0000679 VOLUME 472942.518 3771019.697 300.00
LOCATION L0000680 VOLUME 472928.518 3771019.697 300.00
LOCATION L0000681 VOLUME 472914.518 3771019.697 300.00
LOCATION L0000682 VOLUME 472900.518 3771019.697 300.00
LOCATION L0000683 VOLUME 472886.518 3771019.697 300.00
LOCATION L0000684 VOLUME 472872.859 3771018.156 300.00
LOCATION L0000685 VOLUME 472860.165 3771012.251 299.86
LOCATION L0000686 VOLUME 472847.503 3771006.280 299.66
LOCATION L0000687 VOLUME 472834.957 3771000.067 299.54

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   LOCATION L0000688     VOLUME   472822.411 3770993.854 299.68
   LOCATION L0000689     VOLUME   472809.865 3770987.640 300.00
   LOCATION L0000690     VOLUME   472797.320 3770981.427 299.56
   LOCATION L0000691     VOLUME   472785.109 3770974.710 299.43
   LOCATION L0000692     VOLUME   472774.537 3770965.533 299.92
   LOCATION L0000693     VOLUME   472763.965 3770956.355 300.53
   LOCATION L0000694     VOLUME   472753.392 3770947.178 300.84
   LOCATION L0000695     VOLUME   472742.820 3770938.000 301.28
   LOCATION L0000696     VOLUME   472732.248 3770928.823 302.07
   LOCATION L0000697     VOLUME   472721.675 3770919.646 303.07
   LOCATION L0000698     VOLUME   472711.103 3770910.468 303.53
   LOCATION L0000699     VOLUME   472700.530 3770901.291 303.84
   LOCATION L0000700     VOLUME   472690.491 3770891.535 304.14
   LOCATION L0000701     VOLUME   472680.477 3770881.751 303.72
   LOCATION L0000702     VOLUME   472670.463 3770871.968 303.01
   LOCATION L0000703     VOLUME   472660.449 3770862.184 302.06
   LOCATION L0000704     VOLUME   472650.434 3770852.401 301.07
   LOCATION L0000705     VOLUME   472640.420 3770842.617 300.07
   LOCATION L0000706     VOLUME   472630.406 3770832.834 299.30
   LOCATION L0000707     VOLUME   472620.392 3770823.050 299.44
   LOCATION L0000708     VOLUME   472610.378 3770813.267 299.40
   LOCATION L0000709     VOLUME   472600.363 3770803.483 298.95
   LOCATION L0000710     VOLUME   472590.349 3770793.700 298.58
   LOCATION L0000711     VOLUME   472580.335 3770783.917 298.25
   LOCATION L0000712     VOLUME   472570.321 3770774.133 298.00
** End of LINE VOLUME Source ID = SLINE6
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000367     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000368     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000369     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000370     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000371     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000372     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000373     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000374     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000375     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000376     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000377     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000378     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000379     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000380     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000381     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000382     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000383     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000384     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000385     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000386     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000387     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000388     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000389     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000390     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000391     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000392     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000393     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000394     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000395     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000396     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000397     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000398     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000399     0.0000003006      3.49      4.00      3.25
   SRCPARAM L0000400     0.0000003006      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
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   SRCPARAM L0000402     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000403     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000404     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000405     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000406     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000407     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000408     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000409     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000410     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000411     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000412     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000413     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000414     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000415     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000416     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000417     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000419     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000423     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000425     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000426     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000427     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000428     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000429     0.0000001144      3.49      4.00      3.25
   SRCPARAM L0000430     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000432     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000464     0.0000001144      3.49      4.00      3.25
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   SRCPARAM L0000467     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000468     0.00000002375      3.49      4.00      3.25
   SRCPARAM L0000469     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000472     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000474     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000476     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000481     0.00000002375      3.49      4.00      3.25
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   SRCPARAM L0000519     0.00000002375      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0000531     0.00000003917      3.49      6.51      3.25
** ------------------------------------------------------------------
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** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
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   SRCPARAM L0000712     0.00000007691      3.49      6.51      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14882 Ops.rou"
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RE FINISHED
**
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** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE RDLD_V9_ADJU\RDLD_v9.SFC
   PROFFILE RDLD_V9_ADJU\RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "14882 Ops.AD\AN00GALL.PLT" 31
   SUMMFILE "14882 Ops.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
                ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     872       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     872       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:56:31

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
```

```
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   346 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    346 Source(s);       1 Source Group(s); and      52 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    346 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing
                                                                 Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   481.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                              ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14882
 Ops.err
 **File for Summary of Results:   14882
 Ops.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:56:31
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000367	0 YES	0.30060E-06	475034.0	3771091.3	314.1	3.49	4.00	3.25
L0000368	0 YES	0.30060E-06	475042.5	3771091.3	314.4	3.49	4.00	3.25
L0000369	0 YES	0.30060E-06	475051.1	3771091.3	314.7	3.49	4.00	3.25
L0000370	0 YES	0.30060E-06	475059.7	3771091.3	315.0	3.49	4.00	3.25
L0000371	0 YES	0.30060E-06	475068.3	3771091.3	315.0	3.49	4.00	3.25
L0000372	0 YES	0.30060E-06	475076.9	3771091.3	315.0	3.49	4.00	3.25
L0000373	0 YES	0.30060E-06	475085.5	3771091.3	315.0	3.49	4.00	3.25
L0000374	0 YES	0.30060E-06	475094.1	3771091.3	315.0	3.49	4.00	3.25
L0000375	0 YES	0.30060E-06	475102.7	3771091.3	315.0	3.49	4.00	3.25
L0000376	0 YES	0.30060E-06	475111.3	3771091.3	315.0	3.49	4.00	3.25
L0000377	0 YES	0.30060E-06	475119.9	3771091.3	315.0	3.49	4.00	3.25
L0000378	0 YES	0.30060E-06	475128.4	3771091.3	315.1	3.49	4.00	3.25
L0000379	0 YES	0.30060E-06	475137.0	3771091.3	315.3	3.49	4.00	3.25
L0000380	0 YES	0.30060E-06	475145.6	3771091.3	315.4	3.49	4.00	3.25
L0000381	0 YES	0.30060E-06	475154.2	3771091.3	315.5	3.49	4.00	3.25
L0000382	0 YES	0.30060E-06	475162.8	3771091.3	315.5	3.49	4.00	3.25
L0000383	0 YES	0.30060E-06	475171.4	3771091.3	315.5	3.49	4.00	3.25
L0000384	0 YES	0.30060E-06	475180.0	3771091.3	315.5	3.49	4.00	3.25
L0000385	0 YES	0.30060E-06	475188.6	3771091.3	315.5	3.49	4.00	3.25
L0000386	0 YES	0.30060E-06	475197.2	3771091.3	315.5	3.49	4.00	3.25
L0000387	0 YES	0.30060E-06	475205.8	3771091.3	315.5	3.49	4.00	3.25
L0000388	0 YES	0.30060E-06	475214.3	3771091.3	315.4	3.49	4.00	3.25
L0000389	0 YES	0.30060E-06	475222.9	3771091.3	315.3	3.49	4.00	3.25
L0000390	0 YES	0.30060E-06	475231.5	3771091.3	315.1	3.49	4.00	3.25
L0000391	0 YES	0.30060E-06	475240.1	3771091.3	315.0	3.49	4.00	3.25

L0000392 0 0.30060E-06 475248.7 3771091.3 314.9 3.49 4.00 3.25
YES
L0000393 0 0.30060E-06 475257.3 3771091.3 314.7 3.49 4.00 3.25
YES
L0000394 0 0.30060E-06 475265.9 3771091.3 314.6 3.49 4.00 3.25
YES
L0000395 0 0.30060E-06 475274.5 3771091.3 314.5 3.49 4.00 3.25
YES
L0000396 0 0.30060E-06 475283.1 3771091.3 314.5 3.49 4.00 3.25
YES
L0000397 0 0.30060E-06 475291.7 3771091.3 314.5 3.49 4.00 3.25
YES
L0000398 0 0.30060E-06 475300.2 3771091.3 314.5 3.49 4.00 3.25
YES
L0000399 0 0.30060E-06 475308.8 3771091.3 314.5 3.49 4.00 3.25
YES
L0000400 0 0.30060E-06 475317.4 3771091.3 314.5 3.49 4.00 3.25
YES
L0000401 0 0.11440E-06 475011.6 3771041.2 314.0 3.49 4.00 3.25
YES
L0000402 0 0.11440E-06 475011.7 3771049.8 314.0 3.49 4.00 3.25
YES
L0000403 0 0.11440E-06 475011.8 3771058.4 314.0 3.49 4.00 3.25
YES
L0000404 0 0.11440E-06 475011.9 3771067.0 314.0 3.49 4.00 3.25
YES
L0000405 0 0.11440E-06 475019.7 3771069.2 314.0 3.49 4.00 3.25
YES
L0000406 0 0.11440E-06 475028.2 3771069.3 314.0 3.49 4.00 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000407	0	0.11440E-06	475036.8	3771069.4	314.2	3.49	4.00	3.25
YES								
L0000408	0	0.11440E-06	475045.4	3771069.5	314.5	3.49	4.00	3.25
YES								
L0000409	0	0.11440E-06	475054.0	3771069.6	314.8	3.49	4.00	3.25
YES								
L0000410	0	0.11440E-06	475062.6	3771069.7	315.0	3.49	4.00	3.25
YES								
L0000411	0	0.11440E-06	475071.2	3771069.8	315.0	3.49	4.00	3.25
YES								
L0000412	0	0.11440E-06	475079.8	3771069.9	315.0	3.49	4.00	3.25
YES								
L0000413	0	0.11440E-06	475088.4	3771070.0	315.0	3.49	4.00	3.25
YES								
L0000414	0	0.11440E-06	475097.0	3771070.1	315.0	3.49	4.00	3.25
YES								

L0000415	0	0.11440E-06	475105.5	3771070.2	315.0	3.49	4.00	3.25
YES								
L0000416	0	0.11440E-06	475114.1	3771070.4	315.0	3.49	4.00	3.25
YES								
L0000417	0	0.11440E-06	475122.7	3771070.5	315.0	3.49	4.00	3.25
YES								
L0000418	0	0.11440E-06	475131.3	3771070.6	315.0	3.49	4.00	3.25
YES								
L0000419	0	0.11440E-06	475139.9	3771070.7	315.0	3.49	4.00	3.25
YES								
L0000420	0	0.11440E-06	475148.5	3771070.8	315.0	3.49	4.00	3.25
YES								
L0000421	0	0.11440E-06	475157.1	3771070.9	315.0	3.49	4.00	3.25
YES								
L0000422	0	0.11440E-06	475165.7	3771071.0	315.0	3.49	4.00	3.25
YES								
L0000423	0	0.11440E-06	475174.3	3771071.1	315.0	3.49	4.00	3.25
YES								
L0000424	0	0.11440E-06	475182.9	3771071.2	315.0	3.49	4.00	3.25
YES								
L0000425	0	0.11440E-06	475191.4	3771071.3	315.0	3.49	4.00	3.25
YES								
L0000426	0	0.11440E-06	475200.0	3771071.4	315.0	3.49	4.00	3.25
YES								
L0000427	0	0.11440E-06	475208.6	3771071.5	315.0	3.49	4.00	3.25
YES								
L0000428	0	0.11440E-06	475217.2	3771071.7	315.0	3.49	4.00	3.25
YES								
L0000429	0	0.11440E-06	475225.8	3771071.8	314.9	3.49	4.00	3.25
YES								
L0000430	0	0.11440E-06	475234.4	3771071.9	314.9	3.49	4.00	3.25
YES								
L0000431	0	0.11440E-06	475243.0	3771072.0	314.8	3.49	4.00	3.25
YES								
L0000432	0	0.11440E-06	475251.6	3771072.1	314.5	3.49	4.00	3.25
YES								
L0000433	0	0.11440E-06	475260.2	3771072.2	314.3	3.49	4.00	3.25
YES								
L0000434	0	0.11440E-06	475268.7	3771072.3	314.0	3.49	4.00	3.25
YES								
L0000435	0	0.11440E-06	475277.3	3771072.4	314.0	3.49	4.00	3.25
YES								
L0000436	0	0.11440E-06	475285.9	3771072.5	314.0	3.49	4.00	3.25
YES								
L0000437	0	0.11440E-06	475294.5	3771072.6	314.0	3.49	4.00	3.25
YES								
L0000438	0	0.11440E-06	475303.1	3771072.7	314.0	3.49	4.00	3.25
YES								
L0000439	0	0.11440E-06	475311.7	3771072.8	314.0	3.49	4.00	3.25
YES								
L0000440	0	0.11440E-06	475320.3	3771073.0	314.0	3.49	4.00	3.25
YES								
L0000441	0	0.11440E-06	475328.9	3771073.1	314.0	3.49	4.00	3.25
YES								
L0000442	0	0.11440E-06	475337.5	3771073.2	314.0	3.49	4.00	3.25
YES								
L0000443	0	0.11440E-06	475346.0	3771073.3	314.0	3.49	4.00	3.25
YES								
L0000444	0	0.11440E-06	475354.6	3771073.4	314.0	3.49	4.00	3.25
YES								
L0000445	0	0.11440E-06	475363.2	3771073.5	314.1	3.49	4.00	3.25
YES								
L0000446	0	0.11440E-06	475371.8	3771073.6	314.4	3.49	4.00	3.25
YES								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	SCALAR VARY BY
L0000447	0	0.11440E-06	475380.4	3771073.7	314.6	3.49	4.00	3.25	YES
L0000448	0	0.11440E-06	475389.0	3771073.8	314.9	3.49	4.00	3.25	YES
L0000449	0	0.11440E-06	475397.6	3771073.9	314.9	3.49	4.00	3.25	YES
L0000450	0	0.11440E-06	475399.7	3771080.4	315.0	3.49	4.00	3.25	YES
L0000451	0	0.11440E-06	475399.8	3771089.0	315.0	3.49	4.00	3.25	YES
L0000452	0	0.11440E-06	475399.8	3771097.6	315.0	3.49	4.00	3.25	YES
L0000453	0	0.11440E-06	475399.8	3771106.2	315.0	3.49	4.00	3.25	YES
L0000454	0	0.11440E-06	475399.8	3771114.8	315.2	3.49	4.00	3.25	YES
L0000455	0	0.11440E-06	475399.9	3771123.4	315.4	3.49	4.00	3.25	YES
L0000456	0	0.11440E-06	475399.9	3771132.0	315.6	3.49	4.00	3.25	YES
L0000457	0	0.11440E-06	475399.9	3771140.6	315.9	3.49	4.00	3.25	YES
L0000458	0	0.11440E-06	475399.9	3771149.1	316.2	3.49	4.00	3.25	YES
L0000459	0	0.11440E-06	475400.0	3771157.7	316.6	3.49	4.00	3.25	YES
L0000460	0	0.11440E-06	475400.0	3771166.3	317.0	3.49	4.00	3.25	YES
L0000461	0	0.11440E-06	475400.0	3771174.9	317.0	3.49	4.00	3.25	YES
L0000462	0	0.11440E-06	475400.0	3771183.5	317.0	3.49	4.00	3.25	YES
L0000463	0	0.11440E-06	475400.1	3771192.1	317.0	3.49	4.00	3.25	YES
L0000464	0	0.11440E-06	475400.1	3771200.7	317.0	3.49	4.00	3.25	YES
L0000465	0	0.23750E-07	475394.7	3771210.3	317.0	3.49	4.00	3.25	YES
L0000466	0	0.23750E-07	475386.1	3771210.1	317.0	3.49	4.00	3.25	YES
L0000467	0	0.23750E-07	475377.5	3771209.8	317.0	3.49	4.00	3.25	YES
L0000468	0	0.23750E-07	475369.0	3771209.6	317.0	3.49	4.00	3.25	YES
L0000469	0	0.23750E-07	475360.4	3771209.3	317.0	3.49	4.00	3.25	YES
L0000470	0	0.23750E-07	475351.8	3771209.1	316.9	3.49	4.00	3.25	YES

L0000471	0	0.23750E-07	475343.2	3771208.9	316.7	3.49	4.00	3.25
YES								
L0000472	0	0.23750E-07	475334.6	3771208.6	316.5	3.49	4.00	3.25
YES								
L0000473	0	0.23750E-07	475326.0	3771208.4	316.4	3.49	4.00	3.25
YES								
L0000474	0	0.23750E-07	475317.4	3771208.1	316.2	3.49	4.00	3.25
YES								
L0000475	0	0.23750E-07	475308.9	3771207.9	316.1	3.49	4.00	3.25
YES								
L0000476	0	0.23750E-07	475300.3	3771207.6	316.0	3.49	4.00	3.25
YES								
L0000477	0	0.23750E-07	475291.7	3771207.4	316.0	3.49	4.00	3.25
YES								
L0000478	0	0.23750E-07	475283.1	3771207.2	316.0	3.49	4.00	3.25
YES								
L0000479	0	0.23750E-07	475274.5	3771206.9	316.0	3.49	4.00	3.25
YES								
L0000480	0	0.23750E-07	475265.9	3771206.7	316.0	3.49	4.00	3.25
YES								
L0000481	0	0.23750E-07	475257.3	3771206.4	316.0	3.49	4.00	3.25
YES								
L0000482	0	0.23750E-07	475248.7	3771206.1	316.0	3.49	4.00	3.25
YES								
L0000483	0	0.23750E-07	475240.2	3771205.8	316.0	3.49	4.00	3.25
YES								
L0000484	0	0.23750E-07	475231.6	3771205.5	316.0	3.49	4.00	3.25
YES								
L0000485	0	0.23750E-07	475223.0	3771205.1	316.0	3.49	4.00	3.25
YES								
L0000486	0	0.23750E-07	475214.4	3771204.8	316.0	3.49	4.00	3.25
YES								

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000487	0	0.23750E-07	475205.8	3771204.4	316.0	3.49	4.00	3.25
YES								
L0000488	0	0.23750E-07	475197.2	3771204.1	316.0	3.49	4.00	3.25
YES								
L0000489	0	0.23750E-07	475188.7	3771204.2	316.0	3.49	4.00	3.25
YES								
L0000490	0	0.23750E-07	475180.1	3771204.2	316.0	3.49	4.00	3.25
YES								
L0000491	0	0.23750E-07	475171.5	3771204.2	316.0	3.49	4.00	3.25
YES								
L0000492	0	0.23750E-07	475162.9	3771204.3	316.0	3.49	4.00	3.25
YES								
L0000493	0	0.23750E-07	475154.3	3771204.3	316.0	3.49	4.00	3.25
YES								

L0000494	0	0.23750E-07	475145.7	3771204.3	315.9	3.49	4.00	3.25
YES								
L0000495	0	0.23750E-07	475137.1	3771204.4	315.6	3.49	4.00	3.25
YES								
L0000496	0	0.23750E-07	475128.5	3771204.4	315.3	3.49	4.00	3.25
YES								
L0000497	0	0.23750E-07	475119.9	3771204.4	315.0	3.49	4.00	3.25
YES								
L0000498	0	0.23750E-07	475111.3	3771204.4	315.0	3.49	4.00	3.25
YES								
L0000499	0	0.23750E-07	475102.8	3771204.5	315.0	3.49	4.00	3.25
YES								
L0000500	0	0.23750E-07	475094.2	3771204.5	315.0	3.49	4.00	3.25
YES								
L0000501	0	0.23750E-07	475085.6	3771204.6	315.0	3.49	4.00	3.25
YES								
L0000502	0	0.23750E-07	475077.0	3771204.7	315.0	3.49	4.00	3.25
YES								
L0000503	0	0.23750E-07	475068.4	3771204.8	315.0	3.49	4.00	3.25
YES								
L0000504	0	0.23750E-07	475059.8	3771204.9	315.0	3.49	4.00	3.25
YES								
L0000505	0	0.23750E-07	475051.2	3771205.0	314.7	3.49	4.00	3.25
YES								
L0000506	0	0.23750E-07	475042.6	3771205.1	314.4	3.49	4.00	3.25
YES								
L0000507	0	0.23750E-07	475034.0	3771205.1	314.1	3.49	4.00	3.25
YES								
L0000508	0	0.23750E-07	475025.5	3771205.2	314.0	3.49	4.00	3.25
YES								
L0000509	0	0.23750E-07	475016.9	3771205.3	314.0	3.49	4.00	3.25
YES								
L0000510	0	0.23750E-07	475008.3	3771205.4	314.0	3.49	4.00	3.25
YES								
L0000511	0	0.23750E-07	474999.7	3771205.5	314.0	3.49	4.00	3.25
YES								
L0000512	0	0.23750E-07	474991.1	3771205.6	314.0	3.49	4.00	3.25
YES								
L0000513	0	0.23750E-07	474982.5	3771205.5	314.0	3.49	4.00	3.25
YES								
L0000514	0	0.23750E-07	474973.9	3771205.4	314.0	3.49	4.00	3.25
YES								
L0000515	0	0.23750E-07	474965.3	3771205.3	314.0	3.49	4.00	3.25
YES								
L0000516	0	0.23750E-07	474956.7	3771205.2	314.0	3.49	4.00	3.25
YES								
L0000517	0	0.23750E-07	474948.1	3771205.1	314.0	3.49	4.00	3.25
YES								
L0000518	0	0.23750E-07	474939.6	3771205.0	314.0	3.49	4.00	3.25
YES								
L0000519	0	0.23750E-07	474931.0	3771204.9	313.7	3.49	4.00	3.25
YES								
L0000520	0	0.39170E-07	474923.8	3771197.9	313.5	3.49	6.51	3.25
YES								
L0000521	0	0.39170E-07	474923.7	3771183.9	313.5	3.49	6.51	3.25
YES								
L0000522	0	0.39170E-07	474923.6	3771169.9	313.5	3.49	6.51	3.25
YES								
L0000523	0	0.39170E-07	474923.6	3771155.9	313.3	3.49	6.51	3.25
YES								
L0000524	0	0.39170E-07	474923.5	3771141.9	313.1	3.49	6.51	3.25
YES								
L0000525	0	0.39170E-07	474923.5	3771127.9	313.0	3.49	6.51	3.25
YES								
L0000526	0	0.39170E-07	474923.4	3771113.9	313.0	3.49	6.51	3.25
YES								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
L0000527	0	0.39170E-07	474923.3	3771099.9	313.0	3.49	6.51	3.25	YES
L0000528	0	0.39170E-07	474923.3	3771085.9	313.0	3.49	6.51	3.25	YES
L0000529	0	0.39170E-07	474923.2	3771071.9	312.9	3.49	6.51	3.25	YES
L0000530	0	0.39170E-07	474923.2	3771057.9	312.7	3.49	6.51	3.25	YES
L0000531	0	0.39170E-07	474923.1	3771043.9	312.4	3.49	6.51	3.25	YES
L0000532	0	0.40780E-07	475004.6	3771024.6	314.0	3.49	6.51	3.25	YES
L0000533	0	0.40780E-07	474990.6	3771024.8	314.0	3.49	6.51	3.25	YES
L0000534	0	0.40780E-07	474976.6	3771025.1	314.0	3.49	6.51	3.25	YES
L0000535	0	0.40780E-07	474962.6	3771025.3	313.8	3.49	6.51	3.25	YES
L0000536	0	0.40780E-07	474948.6	3771025.5	313.3	3.49	6.51	3.25	YES
L0000537	0	0.40780E-07	474934.6	3771025.8	312.8	3.49	6.51	3.25	YES
L0000538	0	0.76910E-07	474916.4	3771026.0	312.2	3.49	6.51	3.25	YES
L0000539	0	0.76910E-07	474902.4	3771026.1	312.0	3.49	6.51	3.25	YES
L0000540	0	0.76910E-07	474888.4	3771026.2	312.0	3.49	6.51	3.25	YES
L0000541	0	0.76910E-07	474874.4	3771026.4	312.0	3.49	6.51	3.25	YES
L0000542	0	0.76910E-07	474860.4	3771026.5	312.0	3.49	6.51	3.25	YES
L0000543	0	0.76910E-07	474846.4	3771026.6	312.0	3.49	6.51	3.25	YES
L0000544	0	0.76910E-07	474832.4	3771026.7	312.0	3.49	6.51	3.25	YES
L0000545	0	0.76910E-07	474818.4	3771026.8	311.9	3.49	6.51	3.25	YES
L0000546	0	0.76910E-07	474804.4	3771026.9	311.5	3.49	6.51	3.25	YES
L0000547	0	0.76910E-07	474790.4	3771027.0	311.0	3.49	6.51	3.25	YES
L0000548	0	0.76910E-07	474776.4	3771027.1	311.0	3.49	6.51	3.25	YES
L0000549	0	0.76910E-07	474762.4	3771027.2	311.0	3.49	6.51	3.25	YES

L0000550 0 0.76910E-07 474748.4 3771027.2 311.0 3.49 6.51 3.25
YES
L0000551 0 0.76910E-07 474734.4 3771027.3 311.0 3.49 6.51 3.25
YES
L0000552 0 0.76910E-07 474720.4 3771027.4 311.0 3.49 6.51 3.25
YES
L0000553 0 0.76910E-07 474706.4 3771027.4 311.0 3.49 6.51 3.25
YES
L0000554 0 0.76910E-07 474692.4 3771027.5 311.0 3.49 6.51 3.25
YES
L0000555 0 0.76910E-07 474678.4 3771027.6 311.0 3.49 6.51 3.25
YES
L0000556 0 0.76910E-07 474664.4 3771027.6 310.8 3.49 6.51 3.25
YES
L0000557 0 0.76910E-07 474650.4 3771027.7 310.4 3.49 6.51 3.25
YES
L0000558 0 0.76910E-07 474636.4 3771027.8 310.0 3.49 6.51 3.25
YES
L0000559 0 0.76910E-07 474622.4 3771027.8 310.0 3.49 6.51 3.25
YES
L0000560 0 0.76910E-07 474608.4 3771027.9 310.0 3.49 6.51 3.25
YES
L0000561 0 0.76910E-07 474594.4 3771028.0 310.0 3.49 6.51 3.25
YES
L0000562 0 0.76910E-07 474580.4 3771028.0 310.0 3.49 6.51 3.25
YES
L0000563 0 0.76910E-07 474566.4 3771028.1 310.0 3.49 6.51 3.25
YES
L0000564 0 0.76910E-07 474552.4 3771028.2 310.0 3.49 6.51 3.25
YES
L0000565 0 0.76910E-07 474538.4 3771028.2 310.0 3.49 6.51 3.25
YES
L0000566 0 0.76910E-07 474524.4 3771028.3 310.0 3.49 6.51 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000567	0	0.76910E-07	474510.4	3771028.3	310.0	3.49	6.51	3.25
YES								
L0000568	0	0.76910E-07	474496.4	3771028.4	310.0	3.49	6.51	3.25
YES								
L0000569	0	0.76910E-07	474482.4	3771028.5	310.0	3.49	6.51	3.25
YES								
L0000570	0	0.76910E-07	474468.4	3771028.5	310.0	3.49	6.51	3.25
YES								
L0000571	0	0.76910E-07	474454.4	3771028.6	310.0	3.49	6.51	3.25
YES								
L0000572	0	0.76910E-07	474440.4	3771028.7	310.0	3.49	6.51	3.25
YES								

L0000573	0	0.76910E-07	474426.4	3771028.7	309.9	3.49	6.51	3.25
YES								
L0000574	0	0.76910E-07	474412.4	3771028.8	309.4	3.49	6.51	3.25
YES								
L0000575	0	0.76910E-07	474398.4	3771028.9	309.0	3.49	6.51	3.25
YES								
L0000576	0	0.76910E-07	474384.4	3771028.9	309.0	3.49	6.51	3.25
YES								
L0000577	0	0.76910E-07	474370.4	3771029.0	309.0	3.49	6.51	3.25
YES								
L0000578	0	0.76910E-07	474356.4	3771029.1	309.0	3.49	6.51	3.25
YES								
L0000579	0	0.76910E-07	474342.4	3771029.1	309.0	3.49	6.51	3.25
YES								
L0000580	0	0.76910E-07	474328.4	3771029.2	309.0	3.49	6.51	3.25
YES								
L0000581	0	0.76910E-07	474314.4	3771029.3	309.0	3.49	6.51	3.25
YES								
L0000582	0	0.76910E-07	474300.4	3771029.3	309.0	3.49	6.51	3.25
YES								
L0000583	0	0.76910E-07	474286.4	3771029.4	309.0	3.49	6.51	3.25
YES								
L0000584	0	0.76910E-07	474272.4	3771029.5	309.0	3.49	6.51	3.25
YES								
L0000585	0	0.76910E-07	474258.4	3771029.5	309.0	3.49	6.51	3.25
YES								
L0000586	0	0.76910E-07	474244.4	3771029.6	308.8	3.49	6.51	3.25
YES								
L0000587	0	0.76910E-07	474230.4	3771029.6	308.4	3.49	6.51	3.25
YES								
L0000588	0	0.76910E-07	474216.4	3771029.7	308.0	3.49	6.51	3.25
YES								
L0000589	0	0.76910E-07	474202.4	3771029.8	308.0	3.49	6.51	3.25
YES								
L0000590	0	0.76910E-07	474188.4	3771029.8	308.0	3.49	6.51	3.25
YES								
L0000591	0	0.76910E-07	474174.4	3771029.9	308.0	3.49	6.51	3.25
YES								
L0000592	0	0.76910E-07	474160.4	3771030.0	308.0	3.49	6.51	3.25
YES								
L0000593	0	0.76910E-07	474146.4	3771030.0	308.0	3.49	6.51	3.25
YES								
L0000594	0	0.76910E-07	474132.4	3771030.1	308.0	3.49	6.51	3.25
YES								
L0000595	0	0.76910E-07	474118.4	3771030.2	308.0	3.49	6.51	3.25
YES								
L0000596	0	0.76910E-07	474104.4	3771030.2	308.0	3.49	6.51	3.25
YES								
L0000597	0	0.76910E-07	474090.4	3771030.3	308.0	3.49	6.51	3.25
YES								
L0000598	0	0.76910E-07	474076.4	3771030.4	308.0	3.49	6.51	3.25
YES								
L0000599	0	0.76910E-07	474062.4	3771030.4	308.0	3.49	6.51	3.25
YES								
L0000600	0	0.76910E-07	474048.4	3771030.5	308.0	3.49	6.51	3.25
YES								
L0000601	0	0.76910E-07	474034.4	3771030.6	308.0	3.49	6.51	3.25
YES								
L0000602	0	0.76910E-07	474020.4	3771030.6	308.0	3.49	6.51	3.25
YES								
L0000603	0	0.76910E-07	474006.4	3771030.7	307.9	3.49	6.51	3.25
YES								
L0000604	0	0.76910E-07	473992.4	3771030.8	307.4	3.49	6.51	3.25
YES								
L0000605	0	0.76910E-07	473978.4	3771030.8	307.0	3.49	6.51	3.25
YES								

L0000606 0 0.76910E-07 473964.4 3771030.9 307.0 3.49 6.51 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000607	0 YES	0.76910E-07	473950.4	3771030.9	307.0	3.49	6.51	3.25
L0000608	0 YES	0.76910E-07	473936.4	3771031.0	307.0	3.49	6.51	3.25
L0000609	0 YES	0.76910E-07	473922.4	3771031.1	307.0	3.49	6.51	3.25
L0000610	0 YES	0.76910E-07	473908.4	3771031.1	307.0	3.49	6.51	3.25
L0000611	0 YES	0.76910E-07	473894.4	3771031.1	307.0	3.49	6.51	3.25
L0000612	0 YES	0.76910E-07	473880.4	3771031.1	306.9	3.49	6.51	3.25
L0000613	0 YES	0.76910E-07	473866.4	3771031.0	306.6	3.49	6.51	3.25
L0000614	0 YES	0.76910E-07	473852.4	3771030.9	306.4	3.49	6.51	3.25
L0000615	0 YES	0.76910E-07	473838.4	3771030.9	306.2	3.49	6.51	3.25
L0000616	0 YES	0.76910E-07	473824.4	3771030.8	306.0	3.49	6.51	3.25
L0000617	0 YES	0.76910E-07	473810.4	3771030.8	306.0	3.49	6.51	3.25
L0000618	0 YES	0.76910E-07	473796.4	3771030.7	306.0	3.49	6.51	3.25
L0000619	0 YES	0.76910E-07	473782.4	3771030.6	306.0	3.49	6.51	3.25
L0000620	0 YES	0.76910E-07	473768.4	3771030.6	306.0	3.49	6.51	3.25
L0000621	0 YES	0.76910E-07	473754.4	3771030.5	305.5	3.49	6.51	3.25
L0000622	0 YES	0.76910E-07	473740.4	3771030.5	305.0	3.49	6.51	3.25
L0000623	0 YES	0.76910E-07	473726.4	3771030.4	305.0	3.49	6.51	3.25
L0000624	0 YES	0.76910E-07	473712.4	3771030.3	305.0	3.49	6.51	3.25
L0000625	0 YES	0.76910E-07	473698.4	3771030.3	305.0	3.49	6.51	3.25
L0000626	0 YES	0.76910E-07	473684.4	3771030.2	305.0	3.49	6.51	3.25
L0000627	0 YES	0.76910E-07	473670.4	3771030.2	305.0	3.49	6.51	3.25
L0000628	0 YES	0.76910E-07	473656.4	3771030.1	305.0	3.49	6.51	3.25

L0000629 0 0.76910E-07 473642.4 3771030.0 304.8 3.49 6.51 3.25
YES
L0000630 0 0.76910E-07 473628.4 3771030.0 304.3 3.49 6.51 3.25
YES
L0000631 0 0.76910E-07 473614.4 3771029.9 304.0 3.49 6.51 3.25
YES
L0000632 0 0.76910E-07 473600.4 3771029.7 304.0 3.49 6.51 3.25
YES
L0000633 0 0.76910E-07 473586.4 3771029.4 304.0 3.49 6.51 3.25
YES
L0000634 0 0.76910E-07 473572.4 3771029.2 304.0 3.49 6.51 3.25
YES
L0000635 0 0.76910E-07 473558.4 3771029.0 304.0 3.49 6.51 3.25
YES
L0000636 0 0.76910E-07 473544.4 3771028.8 304.0 3.49 6.51 3.25
YES
L0000637 0 0.76910E-07 473530.4 3771028.5 304.0 3.49 6.51 3.25
YES
L0000638 0 0.76910E-07 473516.4 3771028.3 303.7 3.49 6.51 3.25
YES
L0000639 0 0.76910E-07 473502.5 3771028.1 303.4 3.49 6.51 3.25
YES
L0000640 0 0.76910E-07 473488.5 3771027.9 303.2 3.49 6.51 3.25
YES
L0000641 0 0.76910E-07 473474.5 3771027.7 303.1 3.49 6.51 3.25
YES
L0000642 0 0.76910E-07 473460.5 3771027.4 303.0 3.49 6.51 3.25
YES
L0000643 0 0.76910E-07 473446.5 3771027.2 303.0 3.49 6.51 3.25
YES
L0000644 0 0.76910E-07 473432.5 3771027.0 303.0 3.49 6.51 3.25
YES
L0000645 0 0.76910E-07 473418.5 3771026.8 303.0 3.49 6.51 3.25
YES
L0000646 0 0.76910E-07 473404.5 3771026.5 303.0 3.49 6.51 3.25
YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	SCALAR VARY BY
L0000647	0	0.76910E-07	473390.5	3771026.3	303.0	3.49	6.51	3.25	YES
L0000648	0	0.76910E-07	473376.5	3771026.1	302.9	3.49	6.51	3.25	YES
L0000649	0	0.76910E-07	473362.5	3771025.9	302.6	3.49	6.51	3.25	YES
L0000650	0	0.76910E-07	473348.5	3771025.7	302.3	3.49	6.51	3.25	YES
L0000651	0	0.76910E-07	473334.5	3771025.4	302.2	3.49	6.51	3.25	YES

L0000652	0	0.76910E-07	473320.5	3771025.2	302.0	3.49	6.51	3.25
YES								
L0000653	0	0.76910E-07	473306.5	3771025.0	302.0	3.49	6.51	3.25
YES								
L0000654	0	0.76910E-07	473292.5	3771024.8	302.0	3.49	6.51	3.25
YES								
L0000655	0	0.76910E-07	473278.5	3771024.5	302.0	3.49	6.51	3.25
YES								
L0000656	0	0.76910E-07	473264.5	3771024.3	302.0	3.49	6.51	3.25
YES								
L0000657	0	0.76910E-07	473250.5	3771024.1	302.0	3.49	6.51	3.25
YES								
L0000658	0	0.76910E-07	473236.5	3771023.9	302.0	3.49	6.51	3.25
YES								
L0000659	0	0.76910E-07	473222.5	3771023.7	302.0	3.49	6.51	3.25
YES								
L0000660	0	0.76910E-07	473208.5	3771023.4	302.0	3.49	6.51	3.25
YES								
L0000661	0	0.76910E-07	473194.5	3771023.2	301.9	3.49	6.51	3.25
YES								
L0000662	0	0.76910E-07	473180.5	3771023.0	301.5	3.49	6.51	3.25
YES								
L0000663	0	0.76910E-07	473166.5	3771022.8	301.2	3.49	6.51	3.25
YES								
L0000664	0	0.76910E-07	473152.5	3771022.5	301.1	3.49	6.51	3.25
YES								
L0000665	0	0.76910E-07	473138.5	3771022.3	301.0	3.49	6.51	3.25
YES								
L0000666	0	0.76910E-07	473124.5	3771022.1	301.0	3.49	6.51	3.25
YES								
L0000667	0	0.76910E-07	473110.5	3771021.9	301.0	3.49	6.51	3.25
YES								
L0000668	0	0.76910E-07	473096.5	3771021.6	301.0	3.49	6.51	3.25
YES								
L0000669	0	0.76910E-07	473082.5	3771021.4	301.0	3.49	6.51	3.25
YES								
L0000670	0	0.76910E-07	473068.5	3771021.2	301.0	3.49	6.51	3.25
YES								
L0000671	0	0.76910E-07	473054.5	3771021.0	301.0	3.49	6.51	3.25
YES								
L0000672	0	0.76910E-07	473040.5	3771020.7	301.0	3.49	6.51	3.25
YES								
L0000673	0	0.76910E-07	473026.5	3771020.5	301.0	3.49	6.51	3.25
YES								
L0000674	0	0.76910E-07	473012.5	3771020.3	300.8	3.49	6.51	3.25
YES								
L0000675	0	0.76910E-07	472998.5	3771020.0	300.4	3.49	6.51	3.25
YES								
L0000676	0	0.76910E-07	472984.5	3771019.8	300.1	3.49	6.51	3.25
YES								
L0000677	0	0.76910E-07	472970.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000678	0	0.76910E-07	472956.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000679	0	0.76910E-07	472942.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000680	0	0.76910E-07	472928.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000681	0	0.76910E-07	472914.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000682	0	0.76910E-07	472900.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000683	0	0.76910E-07	472886.5	3771019.7	300.0	3.49	6.51	3.25
YES								
L0000684	0	0.76910E-07	472872.9	3771018.2	300.0	3.49	6.51	3.25
YES								

L0000685 0 0.76910E-07 472860.2 3771012.3 299.9 3.49 6.51 3.25
YES
L0000686 0 0.76910E-07 472847.5 3771006.3 299.7 3.49 6.51 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000687	0	0.76910E-07	472835.0	3771000.1	299.5	3.49	6.51	3.25
YES								
L0000688	0	0.76910E-07	472822.4	3770993.9	299.7	3.49	6.51	3.25
YES								
L0000689	0	0.76910E-07	472809.9	3770987.6	300.0	3.49	6.51	3.25
YES								
L0000690	0	0.76910E-07	472797.3	3770981.4	299.6	3.49	6.51	3.25
YES								
L0000691	0	0.76910E-07	472785.1	3770974.7	299.4	3.49	6.51	3.25
YES								
L0000692	0	0.76910E-07	472774.5	3770965.5	299.9	3.49	6.51	3.25
YES								
L0000693	0	0.76910E-07	472764.0	3770956.4	300.5	3.49	6.51	3.25
YES								
L0000694	0	0.76910E-07	472753.4	3770947.2	300.8	3.49	6.51	3.25
YES								
L0000695	0	0.76910E-07	472742.8	3770938.0	301.3	3.49	6.51	3.25
YES								
L0000696	0	0.76910E-07	472732.2	3770928.8	302.1	3.49	6.51	3.25
YES								
L0000697	0	0.76910E-07	472721.7	3770919.6	303.1	3.49	6.51	3.25
YES								
L0000698	0	0.76910E-07	472711.1	3770910.5	303.5	3.49	6.51	3.25
YES								
L0000699	0	0.76910E-07	472700.5	3770901.3	303.8	3.49	6.51	3.25
YES								
L0000700	0	0.76910E-07	472690.5	3770891.5	304.1	3.49	6.51	3.25
YES								
L0000701	0	0.76910E-07	472680.5	3770881.8	303.7	3.49	6.51	3.25
YES								
L0000702	0	0.76910E-07	472670.5	3770872.0	303.0	3.49	6.51	3.25
YES								
L0000703	0	0.76910E-07	472660.4	3770862.2	302.1	3.49	6.51	3.25
YES								
L0000704	0	0.76910E-07	472650.4	3770852.4	301.1	3.49	6.51	3.25
YES								
L0000705	0	0.76910E-07	472640.4	3770842.6	300.1	3.49	6.51	3.25
YES								
L0000706	0	0.76910E-07	472630.4	3770832.8	299.3	3.49	6.51	3.25
YES								
L0000707	0	0.76910E-07	472620.4	3770823.0	299.4	3.49	6.51	3.25
YES								

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 L0000708         0   0.76910E-07  472610.4 3770813.3   299.4     3.49     6.51     3.25
 YES
 L0000709         0   0.76910E-07  472600.4 3770803.5   298.9     3.49     6.51     3.25
 YES
 L0000710         0   0.76910E-07  472590.3 3770793.7   298.6     3.49     6.51     3.25
 YES
 L0000711         0   0.76910E-07  472580.3 3770783.9   298.2     3.49     6.51     3.25
 YES
 L0000712         0   0.76910E-07  472570.3 3770774.1   298.0     3.49     6.51     3.25
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:56:31

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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  ALL        L0000367    , L0000368    , L0000369    , L0000370    , L0000371    , L0000372    ,
  L0000373    , L0000374    ,

             L0000375    , L0000376    , L0000377    , L0000378    , L0000379    , L0000380    ,
             L0000381    , L0000382    ,

             L0000383    , L0000384    , L0000385    , L0000386    , L0000387    , L0000388    ,
             L0000389    , L0000390    ,

             L0000391    , L0000392    , L0000393    , L0000394    , L0000395    , L0000396    ,
             L0000397    , L0000398    ,

             L0000399    , L0000400    , L0000401    , L0000402    , L0000403    , L0000404    ,
             L0000405    , L0000406    ,

             L0000407    , L0000408    , L0000409    , L0000410    , L0000411    , L0000412    ,
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             L0000477    , L0000478    ,
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L0000479 , L0000480 , L0000481 , L0000482 , L0000483 , L0000484 ,
L0000485 , L0000486 ,

L0000487 , L0000488 , L0000489 , L0000490 , L0000491 , L0000492 ,
L0000493 , L0000494 ,

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L0000501 , L0000502 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000527 , L0000528 , L0000529 , L0000530 , L0000531 , L0000532 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 ,
L0000693 , L0000694 ,

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L0000709 , L0000710 ,

L0000711 , L0000712 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

2035210. L0000367 , L0000368 , L0000369 , L0000370 , L0000371 ,
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L0000374 ,

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L0000525 , L0000526 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0000527 , L0000528 , L0000529 , L0000530 , L0000531 , L0000532 , L0000533 , L0000534 ,
		L0000535 , L0000536 , L0000537 , L0000538 , L0000539 , L0000540 , L0000541 , L0000542 ,
		L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 ,
		L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 ,
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		L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 , L0000613 , L0000614 ,
		L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 , L0000622 ,
		L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 , L0000629 , L0000630 ,
		L0000631 , L0000632 , L0000633 , L0000634 , L0000635 , L0000636 , L0000637 , L0000638 ,
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 ,
L0000693 , L0000694 ,

L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 ,
L0000701 , L0000702 ,

L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , L0000708 ,
L0000709 , L0000710 ,

L0000711 , L0000712 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(474864.2, 3771196.5, 313.0, 313.0, 0.0); (474860.6, 3771085.8, 312.0, 312.0, 0.0);
(475058.6, 3770969.7, 314.0, 314.0, 0.0); (475026.4, 3770971.6, 314.0, 314.0, 0.0);
(474550.7, 3770973.8, 310.0, 310.0, 0.0); (474518.6, 3770973.2, 310.0, 310.0, 0.0);
(474788.4, 3770953.7, 311.0, 311.0, 0.0); (474568.6, 3771089.1, 310.0, 310.0, 0.0);
(475192.2, 3770995.5, 314.2, 314.2, 0.0); (475570.6, 3771244.9, 318.0, 318.0, 0.0);
(475600.4, 3771239.3, 318.4, 318.4, 0.0); (475240.7, 3771260.5, 316.0, 316.0, 0.0);
(475486.7, 3771257.5, 318.0, 318.0, 0.0); (475581.9, 3771365.3, 318.0, 318.0, 0.0);
(475567.0, 3771426.1, 318.0, 318.0, 0.0); (475146.8, 3771403.8, 315.0, 315.0, 0.0);
(474972.9, 3771404.2, 313.1, 313.1, 0.0); (474575.8, 3771232.5, 310.0, 310.0, 0.0);
(474191.8, 3771048.4, 308.0, 308.0, 0.0); (474106.5, 3771047.2, 308.0, 308.0, 0.0);
(474172.0, 3771047.2, 308.0, 308.0, 0.0); (474258.2, 3770962.3, 308.3, 308.3, 0.0);
(473996.8, 3771011.2, 307.5, 307.5, 0.0); (474000.2, 3771052.4, 307.7, 307.7, 0.0);
(473969.0, 3771052.6, 307.0, 307.0, 0.0); (473907.8, 3771053.3, 306.9, 306.9, 0.0);
(473891.9, 3771051.9, 306.8, 306.8, 0.0); (473792.9, 3771070.1,

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    306.0,     306.0,       0.0);
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    304.0,     304.0,       0.0);
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    ( 472919.1, 3771002.5,     299.8,     299.8,       0.0);         ( 472923.9, 3771041.4,
    300.0,     300.0,       0.0);
    ( 475692.6, 3770921.6,     315.0,     315.0,       0.0);         ( 475924.7, 3771066.4,
    317.0,     317.0,       0.0);
    ( 475263.9, 3770551.7,     314.9,     314.9,       0.0);         ( 475369.6, 3770576.6,
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    ( 475733.8, 3770668.9,     318.0,     318.0,       0.0);         ( 476048.8, 3770298.1,
    323.0,     323.0,       0.0);
    ( 476729.0, 3770270.9,     329.0,     329.0,       0.0);         ( 475419.1, 3771148.3,
    317.0,     317.0,       0.0);
    ( 475419.7, 3771202.4,     317.0,     317.0,       0.0);         ( 475420.1, 3771096.3,
    315.0,     315.0,       0.0);
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
RDLD_V9_ADJU\RDLD_v9.SFC Met
Version: 16216
Profile file:
RDLD_V9_ADJU\RDLD_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	110.	9.1	285.4	5.5
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	130.	9.1	284.5	5.5
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	100.	9.1	285.0	5.5
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	107.	9.1	284.6	5.5
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	98.	9.1	284.9	5.5
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	86.	9.1	284.5	5.5
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	91.	9.1	284.0	5.5
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90	107.	9.1	285.0	5.5
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10	81.	10.1	289.1	5.5
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40	72.	9.1	295.1	5.5
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68	78.	10.1	297.9	5.5
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80	333.	9.1	299.4	5.5
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80	72.	9.1	300.4	5.5
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80	277.	9.1	301.0	5.5
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70	243.	9.1	301.0	5.5
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30	274.	9.1	300.1	5.5
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90	252.	9.1	298.2	5.5
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90	116.	9.1	296.4	5.5
12	01	01	1	19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27	79.	10.1	292.2	5.5
12	01	01	1	20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90				

```
 95.    9.1  290.2    5.5
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22   1.00    0.90
 99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22   1.00    0.90
 110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22   1.00    1.30
 89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22   1.00    0.90
 105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:56:31

                      PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR
                   SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000367    , L0000368    ,
                                  L0000369    , L0000370    , L0000371    ,
                 L0000372    , L0000373    , L0000374    , L0000375    , L0000376    ,
                 L0000377    , L0000378    , L0000379    ,
                 L0000380    , L0000381    , L0000382    , L0000383    , L0000384    ,
                 L0000385    , L0000386    , L0000387    ,
                 L0000388    , L0000389    , L0000390    , L0000391    , L0000392    ,
                 L0000393    , L0000394    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                   ** CONC OF DPM      IN
                                   MICROGRAMS/M**3                          **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)   Y-COORD
       (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
         474864.18    3771196.53        0.00033                      474860.63
         3771085.83        0.00049
         475058.56    3770969.74        0.00069                      475026.44
         3770971.63        0.00066
         474550.67    3770973.83        0.00032                      474518.56
         3770973.20        0.00031
         474788.40    3770953.68        0.00032                      474568.62
         3771089.07        0.00030
         475192.20    3770995.46        0.00105                      475570.60
         3771244.89        0.00019
         475600.38    3771239.28        0.00017                      475240.74
         3771260.50        0.00054
         475486.73    3771257.54        0.00028                      475581.88
         3771365.32        0.00013
         475566.99    3771426.07        0.00011                      475146.80
         3771403.79        0.00021
         474972.89    3771404.22        0.00018                      474575.80
         3771232.49        0.00014
         474191.79    3771048.36        0.00062                      474106.47
         3771047.17        0.00066
         474172.00    3771047.17        0.00065                      474258.23
```

3770962.30 0.00025
473996.80 3771011.22 0.00060 474000.21
3771052.40 0.00055
473969.04 3771052.63 0.00055 473907.83
3771053.31 0.00054
473891.90 3771051.95 0.00057 473792.93
3771070.15 0.00035
473771.99 3771064.24 0.00040 473906.69
3770931.81 0.00018
474355.16 3770961.39 0.00026 474544.60
3771049.43 0.00060
474505.73 3771064.13 0.00041 474485.81
3771055.24 0.00050
474447.51 3771050.01 0.00058 474413.47
3771050.01 0.00058
474386.78 3771047.69 0.00063 473548.58
3771072.18 0.00032
473404.45 3771071.07 0.00031 473134.34
3770916.19 0.00016
472919.07 3771002.53 0.00063 472923.88
3771041.43 0.00052
475692.60 3770921.56 0.00012 475924.72
3771066.37 0.00007
475263.86 3770551.73 0.00009 475369.62
3770576.58 0.00009
475733.77 3770668.86 0.00007 476048.78
3770298.11 0.00003
476729.02 3770270.95 0.00002 475419.11
3771148.32 0.00153
475419.72 3771202.39 0.00104 475420.13
3771096.31 0.00156

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00156 AT (475420.13, 3771096.31, 315.00, 315.00, 0.00) DC
	2ND HIGHEST VALUE IS	0.00153 AT (475419.11, 3771148.32, 316.97, 316.97, 0.00) DC
	3RD HIGHEST VALUE IS	0.00105 AT (475192.20, 3770995.46, 314.18, 314.18, 0.00) DC
	4TH HIGHEST VALUE IS	0.00104 AT (475419.72, 3771202.39, 317.00, 317.00, 0.00) DC
	5TH HIGHEST VALUE IS	0.00069 AT (475058.56, 3770969.74, 314.00, 314.00, 0.00) DC
	6TH HIGHEST VALUE IS	0.00066 AT (474106.47, 3771047.17, 308.00, 308.00, 0.00) DC
	7TH HIGHEST VALUE IS	0.00066 AT (475026.44, 3770971.63, 314.00,

```
          314.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00065 AT (  474172.00,  3771047.17,   308.00,
          308.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00063 AT (  472919.07,  3771002.53,   299.84,
          299.84,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00063 AT (  474386.78,  3771047.69,   309.00,
         309.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14882 Gateway
South\14882 Ops\1 ***        12/01/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:56:31

                      PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          388 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          191 Calm Hours Identified

 A Total of          197 Missing Hours Identified (  0.45 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     872       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     872       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

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APPENDIX 2.4:

RISK CALCULATIONS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario - Construction Activity

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.04946	4.95E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.8E-05	5.7E-06	5.0E+00	1.4E-03	9.9E-03							
TOTAL								5.7E-06			9.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

5.74

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	260
exposure duration (years)	1.00
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	1.00
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00105	1.05E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.8E-07	2.5E-07	5.0E+00	1.4E-03	2.1E-04							
TOTAL								2.5E-07			2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.25

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	13.23
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00105	1.05E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.6E-07	4.0E-08	5.0E+00	1.4E-03	2.1E-04							
TOTAL								4.0E-08			2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.04

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 6.03

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00105	1.05E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.6E-07	1.2E-08	5.0E+00	1.4E-03	2.1E-04							
TOTAL								1.2E-08			2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00105	1.05E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-06	2.8E-07	5.0E+00	1.4E-03	2.1E-04							
TOTAL								2.8E-07			2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00105	1.05E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.8E-07	2.6E-07	5.0E+00	1.4E-03	2.1E-04							
TOTAL								2.6E-07			2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00105	1.05E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.6E-07	4.0E-08	5.0E+00	1.4E-03	2.1E-04							
TOTAL								4.0E-08			2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.04

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 0.59

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	($mg/kg/day$)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	1.56E-03	1.56E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.5E-07	9.2E-08	5.0E+00	1.4E-03	3.1E-04							
	TOTAL								9.2E-08			3.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.09										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

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Appendix C:

Biological Resources Technical Report

Biological Resources Technical Report

Gateway South Building 9

City of San Bernardino, California

DRAFT REPORT



APN's 280-172-01, -02, -04, -11, -17, -19 to -22, 280-192-01, -02, -04 to -13, -16, -18 to -22, 280-202-07 to -09, and -11

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August 2022

CADRE Environmental

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INTRODUCTION

The following biological resources technical report describes a detailed assessment of potential sensitive natural resources located within and/or immediately adjacent to the "Gateway South Building 9" project site (Project Site). The report has been prepared to support compliance with the California Environmental Quality Act (CEQA) documentation including the preparation of an Initial Study (IS), Mitigated Negative Declaration (MND) or Environmental Impact Report (EIR) and environmental review process conducted by the City of San Bernardino, California. As discussed below, the assessment included a thorough literature review, site reconnaissance characterizing existing conditions (including floral, faunal and dominant vegetation communities), impact analysis, and applicable standards and regulations to ensure impacts remain at a level below significance.

PROJECT LOCATION

The 18.67-acre Project Site, Assessor Parcel Numbers (APNs) 280-172-01, -02, -04, -11, -17, -19 to -22, 280-192-01, -02, -04 to -13, -16, -18 to -22, 280-202-07 to -09, and -11 is located within the southeastern region of the City of San Bernardino, San Bernardino County, California, as shown in Figure 1, *Regional Location Map*. Specifically, the Project Site is located immediately south of East Norman Road, north of East Orange Show Road and northwest of the Santa Ana River flood prone area, as shown in Figure 2, *Project Site Map*.

PROJECT DESCRIPTION

The proposed action includes the development of one (1) warehouse buildings totaling 397,700 square feet including associated offices, employee parking, and trailer stalls.

The Project Site is currently developed by residential homesites, used as a commercial storage facility, heavily disturbed, and possesses no suitable habitat for any state and/or federally listed threatened/endangered or regionally sensitive species.

No wetlands or jurisdictional resources regulated by the United States Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), or Regional Water Quality Control Board (RWQCB) occur within the Project Site. The Project Site is located immediately northwest of the Santa Ana River and the proposed action will not result in a direct or indirect to the regulated drainage (regional wildlife movement corridor).

Following a detailed biological resources habitat assessment, the following applicable pre-construction conservation measures will be implemented as conditions of approval to ensure compliance with CEQA.

- CM BIO-1: City of San Bernardino's Ordinance MC-1027, 9-8-98 and MC-682, 11-6-89 (Municipal Code, Title 15, Chapter 15.34) tree removal permit requirement.

- CM BIO-2: Nesting Bird and Raptor Preconstruction Survey



APN's 280-172-01, -02, -04, -11, -17, -19 to -22, 280-192-01, -02, -04 to -13, -16, -18 to -22, 280-202-07 to -09, and -11

Figure 1 - Regional Location Map
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental

N
not to scale

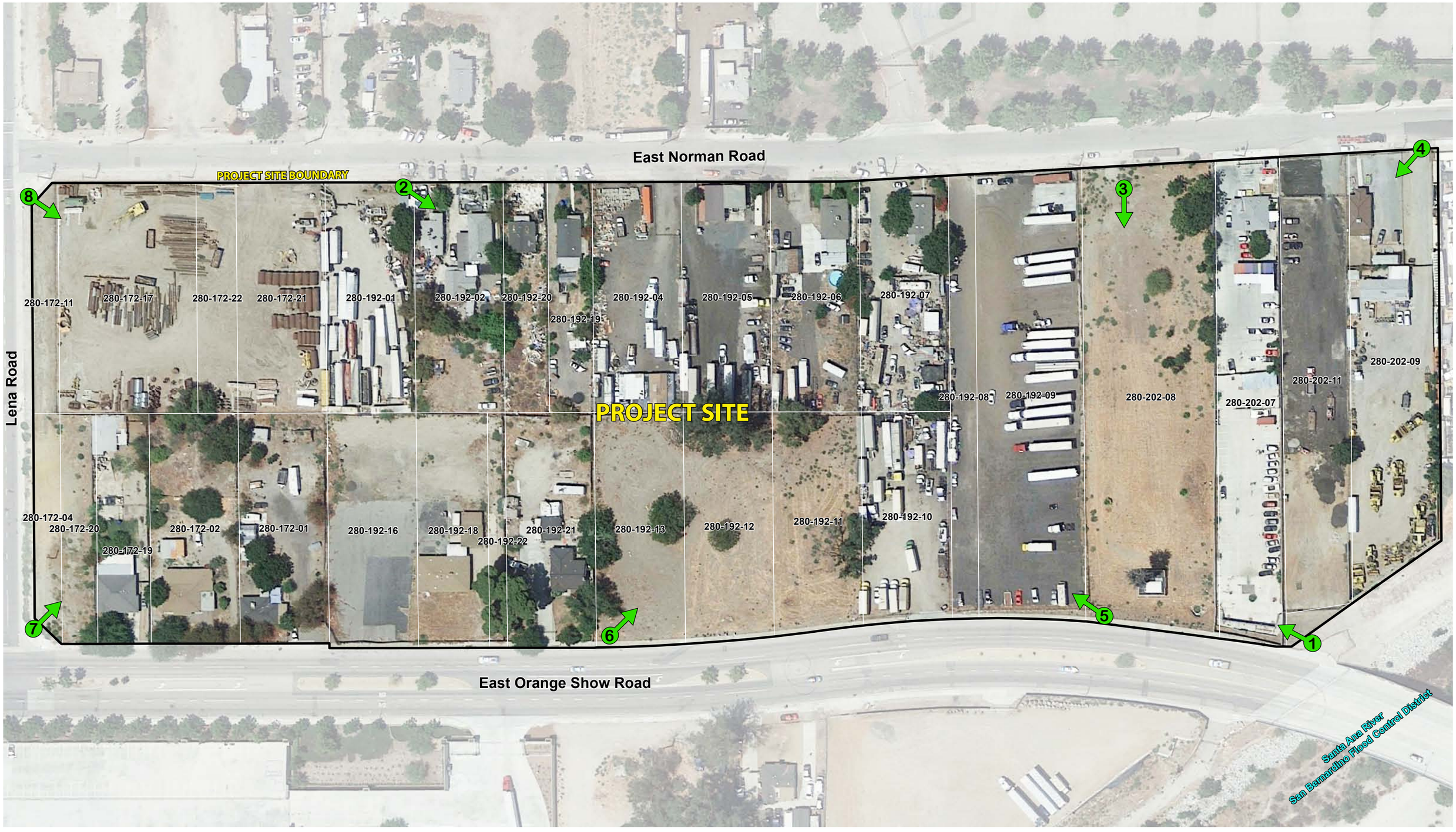


Photo Point & Direction

Figure 2 - Project Site Map
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental

N

1 inch = 100 feet

METHODOLOGY

The following section details the methods implemented prior to and during the reconnaissance survey conducted throughout the Project Site.

LITERATURE REVIEW

Existing biological resource conditions within and adjacent to the Project Site were initially investigated through review of pertinent scientific literature. Federal register listings, protocols, and species data provided by the United States Fish and Wildlife Service (USFWS) were also reviewed in conjunction with anticipated federally listed species potentially occurring within the region of the Project Site. The California Natural Diversity Database (CNDDB) (CDFW 2022a), a California Department of Fish and Wildlife (CDFW) Natural Heritage Division species account database, was also reviewed for all pertinent information regarding the locations of known occurrences of sensitive species in the vicinity of the property. In addition, numerous regional floral and faunal field guides were utilized in the identification of species and suitable habitats. Combined, the reviewed sources provided an excellent baseline from which to inventory the biological resources potentially occurring in the area. Other CDFW reports and publications consulted include the following:

- Special Animals (CDFW 2022b);
- State and Federally Listed Endangered and Threatened Animals of California (CDFW 2022c);
- Endangered, Threatened, and Rare Plants of California (CDFW 2022d); and
- Special Vascular Plants and Bryophytes List (CDFW 2022e).

FIELD SURVEY

A reconnaissance surveys of the Project Site was conducted by Ruben Ramirez of Cadre Environmental (USFWS Permit 780566-14) on May 23rd and August 29th, 2022 in order to characterize and identify potential sensitive plant and wildlife habitats, and to establish the accuracy of the data identified in the literature search. Geologic and soil maps were examined to identify local soil types that may support sensitive taxa. Aerial photograph, topographic maps, vegetation and rare plant maps prepared for previous studies in the region were used to determine community types and other physical features that may support sensitive plants/wildlife, uncommon taxa, or rare communities that occur within or adjacent to the Project Site. Habitat assessments were conducted for, but not limited to, the following target species/groups.

- Delhi sands flower loving fly – Federally Endangered (FE)
- Coastal California gnatcatcher – Federally Threatened (FT)/State Species of Special Concern (SSC)
- Burrowing owl - SSC
- Southwestern willow flycatcher (FE)/State Endangered (SE)
- Least Bell's vireo (FE/SE)
- San Bernardino kangaroo rat – FE/SSC
- Common and sensitive bat species

- Sensitive plants

Vegetation Communities/Habitat Classification Mapping

Natural community names and hierarchical structure follows the "*Manual of California Vegetation*" (Sayer and Keeler-Wolf 2009) classification system, which has been refined and augmented where appropriate to better characterize the habitat types observed onsite.

A general plant survey was conducted throughout the Project Site during the reconnaissance in a collective effort to identify all species occurring onsite.

All plants observed during the survey efforts were either identified in the field or collected and later identified using taxonomic keys. Plant taxonomy follows Hickman (1993). Scientific nomenclature and common names used in this report generally follow Roberts et al. (2004) or Baldwin et al. (2012) for updated taxonomy. Scientific names are included only at the first mention of a species; thereafter, common names alone are used.

Wildlife Resources Inventory

All animals identified during the reconnaissance survey by sight, call, tracks, scat, or other characteristic sign were documented. In addition to species actually detected, expected use of the site by other wildlife was derived from the analysis of habitats on the site, combined with known habitat preferences of regionally occurring wildlife species.

Vertebrate taxonomy followed in this report is according to the Center for North American Herpetology (2022 for amphibians and reptiles), the American Ornithologists' Union (1988 and supplemental) for birds, and Baker et al. (2003) for mammals. Both common and scientific names are used during the first mention of a species; common names only are used in the remainder of the text.

Jurisdictional Resources Assessment

The Project Site was assessed for the presence/absence of United States Army Corps of Engineers, California Department of Fish and Wildlife, and Regional Water Quality Control Board jurisdictional resources. Non-wetland waters of the United States were assessed based on the limits of the Ordinary High-Water Mark (OHWM) as determined by erosion, the deposition of vegetation or debris, and changes in vegetation and soil characteristics. The assessment utilized the methodology for routine wetland determination according to the methods outlined in the USACE Wetland Delineation Manual (Environmental Laboratory 1987) and the Arid West Wetland Delineation Supplement and updated regulatory guidance letters (USACE 2008). Wetlands are identified by the presence of three characteristics: hydrophytic vegetation, wetland hydrology, and hydric soils. If any of these criteria were met, one or more transects were run to determine the extent of the wetland. Specifically, the presence of wetland hydrology was evaluated throughout the Project Site by recording the extent of observed surface flows, depth of inundation, depth to saturated soils, and depth to free water in the soil pits, where applicable. In addition, indicators of wetland or riverine hydrology were recorded, including water marks, drift lines, rack, debris, and sediment deposits, as

warranted. Any indicators of hydric soils, such as redoximorphic features, buried organic matter, organic streaking, reduced soil conditions, gleyed or low-chroma soils, or sulfidic odor were also recorded.

EXISTING ENVIRONMENTAL SETTING

The following section presents the existing conditions of the Project Site assessment area. The Project Site is characterized as 18.67-acres of primarily developed lands currently used as commercial storage facilities, residential home sites, undeveloped disturbed lands, and ornamental trees scattered throughout the Project Site, as shown in Figure 3, *Vegetation Communities Map*, and Figures 4 to 7, *Current Project Site Photographs*. With the exception of a short 200-foot reach of the southeast Project Site boundary located adjacent to the Santa Ana River flood prone area, the balance of the property is bordered by high-traffic roads, distribution centers, residential home sites and disturbed lands. Substrates onsite are characterized exclusively as Tujunga gravelly loamy sand, 0 to 9 percent slopes (TvC), somewhat excessively drained, as shown in Figure 8, *Soils Association Map* (NRCS 2022).

VEGETATION COMMUNITIES

Developed

A total of 13.46-acres of the Project Site is characterized as developed and includes areas devoid of vegetation and currently being utilized for commercial storage, existing structures, residential home sites and an existing antenna tower, as outlined in Table 1*, Project Site Vegetation Community Acreages*. As described below, ornamental trees are scattered throughout this region.

Disturbed

A total of 3.54-acres of the Project Site is characterized as disturbed habitat with indications that annual clearing occurs. The soils are heavily compacted and this vegetation community is dominated by species commonly occurring in disturbed habitats including cheeseweed (*Malva parviflora),* Russian thistle (*Salsola tragus*), puncture vine (*Tribulus terrestris*), telegraph weed (*Heterotheca grandiflora*), Asian mustard (*Brassica tournefortii*), Jimson weed (*Datura stramonium*), annual bursage (*Ambrosia acanthicarpa*) red-stemmed filaree (*Erodium cicutarium*), and to a lesser extent wild oat (*Avena fatua*), and ripgut brome (*Bromus diandrus*).

Ornamental Landscaping

Several ornamental trees and palms are scattered through the Project Site including but not limited to Eucalyptus (*Eucalyptus* sp.), tamarisk (*Tamarix ramosissima*), Mexican fan palm (*Washingtonia robusta*), Palo Verde tree (*Parkinsonia aculeata*), mulberry (*Morus alba*), and tree of heaven (*Ailanthus altissima*).

Table 1.
Project Site Vegetation Community Acreages

Vegetation Community	Acres
Developed	13.46
Disturbed	3.54
Ornamental Landscaping	1.67
TOTAL	**18.67**

Source: Cadre Environmental 2022.

GENERAL PLANT & WILDIFE SPECIES

General plant species documented within the Project Site area are presented in the previous section. General wildlife species documented onsite or within the vicinity during the site assessment include mourning dove (*Zenaida macroura*), rock dove (*Columba livia*), black phoebe (*Sayornis nigricans*), Say's phoebe (*Sayornis saya*), American crow (*Corvus brachyrhynchos*), house finch (*Haemorhous mexicanus*), house sparrow (*Passer domesticus*), European starling (*Sturnus vulgaris*), and northern mockingbird (*Mimus polyglottos*).

JURISDICTIONAL WETLAND RESOURCES

No wetlands or jurisdictional resources regulated by the USACE, CDFW, or RWQCB were documented within the Project Site. The adjacent reach of the Santa Ana River located southeast of the Project Site will not be directly or indirectly impacted as a result of project initiation as discussed in the following sections.

Impacts to water quality would be less than significant during both construction and operation (i.e., if warranted, compliance with National Pollutant Discharge Elimination System (NPDES) permit and MS4 code provisions would ensure no impacts to species, and compliance with County of San Bernardino Phase 1 Municipal Separate Storm Sewer System (MS4) permit requirements and LID manual would also ensure no impacts to species).

East Norman Road

PROJECT SITE BOUNDARY

Lena Road

PROJECT SITE

East Orange Show Road

Santa Ana River
San Bernardino Flood Control District

Legend

DEV	Developed
DIS	Disturbed Habitat
ORN	Ornamental Landscaping

APN's 280-172-01, -02, -04, -11, -17, -19 to -22, 280-192-01, -02, -04 to -13, -16, -18 to -22, 280-202-07 to -09, and -11

Figure 3 - Vegetation Communities Map
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental

N

1 inch = 100 feet



PHOTOGRAPH 1



PHOTOGRAPH 2

Refer to Figure 2 for Photographic Key Map

Figure 4 - Current Project Site Photographs
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental



PHOTOGRAPH 3



PHOTOGRAPH 4

Refer to Figure 2 for Photographic Key Map

Figure 5 - Current Project Site Photographs
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental



PHOTOGRAPH 5



PHOTOGRAPH 6

Refer to Figure 2 for Photographic Key Map

Figure 6 - Current Project Site Photographs
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental



PHOTOGRAPH 7



PHOTOGRAPH 8

Refer to Figure 2 for Photographic Key Map

Figure 7 - Current Project Site Photographs
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental

East Norman Road

PROJECT SITE BOUNDARY

Lena Road

TvC
Tujunga gravelly loamy sand, 0 to 9 percent slopes

PROJECT SITE

TvC
Tujunga gravelly loamy sand, 0 to 9 percent slopes

East Orange Show Road

Santa Ana River
San Bernardino Flood Control District

APN's 280-172-01, -02, -04, -11, -17, -19 to -22, 280-192-01, -02, -04 to -13, -16, -18 to -22, 280-202-07 to -09, and -11

Figure 8 - Soils Association Map
Biological Resources Technical Report
Gateway South Building 9

CADRE Environmental

N

1 inch = 100 feet

SENSITIVE BIOLOGICAL RESOURCES

The following discussion describes the plant and wildlife species present, or potentially present within the property boundaries, that have been afforded special recognition by federal, state, or local resource conservation agencies and organizations, principally due to the species' declining or limited population sizes, usually resulting from habitat loss. Also discussed are habitats that are unique, of relatively limited distribution, or of particular value to wildlife. Protected sensitive species are classified by state and/or federal resource management agencies, or both, as threatened or endangered, under provisions of the state and federal endangered species act. Vulnerable or "at-risk" species that are proposed for listing as threatened or endangered (and thereby for protected status) are categorized administratively as "candidates" by the USFWS. CDFW uses various terminology and classifications to describe vulnerable species.

Sensitive biological resources are habitats or individual species that have special recognition by federal, state, or local conservation agencies and organizations as endangered, threatened, or rare. The CDFW, USFWS, and special groups like the California Native Plant Society (CNPS) maintain watch lists of such resources. For the purpose of this assessment sources used to determine the sensitive status of biological resources are:

Plants: USFWS (2022), CNDDB (CDFW 2022a), CDFW (2022d, 2022e), CNPS (2022), and Skinner and Pavlik (1994),

Wildlife: California Wildlife Habitat Relationships (2008), USFWS (2021), CNDDB (CDFW 2022a), and CDFW (2022b, 2022c).

Habitats: CNDDB (CDFW 2022a, 2022f).

FEDERAL PROTECTION AND CLASSIFICATIONS

The Federal Endangered Species Act of 1973 (FESA) defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its range..." Threatened species are defined as "any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range." Under provisions of Section 9(a)(1)(B) of the FESA it is unlawful to "take" any listed species. "Take" is defined as follows in Section 3(18) of the FESA: "...harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Further, the USFWS, through regulation, has interpreted the terms "harm" and "harass" to include certain types of habitat modification as forms of a "take." These interpretations, however, are generally considered and applied on a case-by-case basis and often vary from species to species. In a case where a property owner seeks permission from a federal agency for an action that could affect a federally listed plant and animal species, the property owner and agency are required to consult with USFWS. Section 9(a)(2)(b) of the FESA addresses the protections afforded to listed plants. Recently, the USFWS instituted changes in the listing status of former candidate species. Former C1 (candidate) species are now referred to simply as candidate species and represent the only candidates for listing. Former C2 species (for which the USFWS had insufficient evidence to warrant listing at this time) and C3 species (either extinct, no

longer a valid taxon or more abundant than was formerly believed) are no longer considered as candidate species. Therefore, these species are no longer maintained in list form by the USFWS, nor are they formally protected. However, some USFWS field offices have issued memoranda stating that former C2 species are henceforth to be considered Federal Species of Concern. This term is employed in this document but carries no official protections. All references to federally protected species in this report (whether listed, proposed for listing or candidate) include the most current published status or candidate category to which each species has been assigned by USFWS. For purposes of this assessment, the following acronyms are used for federal status species:

FE	Federal Endangered
FT	Federal Threatened
FPE	Federal Proposed Endangered
FPT	Federal Proposed Threatened
FC	Federal Candidate for Listing

The designation of critical habitat can also have a significant impact on the development of land designated as "*critical habitat*." The FESA prohibits federal agencies from taking any action that will "*adversely modify or destroy*" critical habitat (16 U.S.C. § 1536(a)(2)). This provision of the FESA applies to the issuance of permits by federal agencies. Before approving an action affecting critical habitat, the federal agency is required to consult with the USFWS who then issues a biological opinion evaluating whether the action will "*adversely modify"* critical habitat. Thus, the designation of critical habitat effectively gives the USFWS extensive regulatory control over the development of land designated as critical habitat.

The Migratory Bird Treaty Act of 1918 (MBTA) makes it unlawful to "*take*" any migratory bird or part, nest, or egg of such bird listed in wildlife protection treaties between the United States and Great Britain, the Republic of Mexico, Japan, and the Union of Soviet States. For purposes of the MBTA, "*take*" is defined as to pursue, hunt, capture, kill, or possess or attempt to do the same.

The Bald Eagle and Golden Eagle Protection Act explicitly protects the bald eagle and golden eagle and imposes its own prohibition on any taking of these species. As defined in this act, take means to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, or molest or disturb. Current USFWS policy is not to refer the incidental take of bald eagles for prosecution under the Bald Eagle and Golden Eagle Protection Act (16 U.S.C. 668-668d).

STATE PROTECTION AND CLASSIFICATIONS

California's Endangered Species Act (CESA) defines an endangered species as "...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." The State defines a threatened species as "...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 required by this chapter. Any animal determined by the commission as rare on or before January 1, 1985 is a threatened species." Candidate species are defined as "...a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the commission has formally noticed as being under review by the department for addition to either the list of endangered species or the list of threatened species, or a species for which the commission has published a notice of proposed regulation to add the species to either list." Candidate species may be afforded temporary protection as though they were already listed as threatened or endangered at the discretion of the Fish and Game Commission. Unlike FESA, CESA does not include listing provisions for invertebrate species.

Article 3, Sections 2080 through 2085, of CESA addresses the taking of threatened or endangered species by stating "No person shall import into this state, export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the commission determines to be an endangered species or a threatened species, or attempt any of those acts, except as otherwise provided..." Under CESA, "take" is defined as "...hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." Exceptions authorized by the state to allow "take" require "...permits or memorandums of understanding..." and can be authorized for "...endangered species, threatened species, or candidate species for scientific, educational, or management purposes." Sections 1901 and 1913 of the California Fish and Game Code provide that notification is required prior to disturbance.

Additionally, some sensitive mammals and birds are protected by the State as Fully Protected Mammals or Fully Protected Birds, as described in the California Fish and Game Code, Sections 4700 and 3511, respectively. SSC ("special" animals and plants) listings include special status species, including all state and federal protected and candidate taxa, Bureau of Land Management (BLM) and US Forest Service (USFS) sensitive species, species considered to be declining or rare by the CNPS or National Audubon Society, and a selection of species which are considered to be under population stress but are not formally proposed for listing. This list is primarily a working document for the CDFW's CNDDB project. Informally listed taxa are not protected per se, but warrant consideration in the preparation of biotic assessments. For some species, the CNDDB is only concerned with specific portions of the life history, such as roosts, rookeries, or nest sites.

For the purposes of this assessment, the following acronyms are used for State status species:

SE	State Endangered
ST	State Threatened
SCE	State Candidate Endangered
SCT	State Candidate Threatened
SFP	State Fully Protected
SP	State Protected

SR	State Rare
SSC	California Species of Special Concern
CWL	California Watch List

Nesting birds, including raptors, are protected under California Fish and Game Code Section 3503, which reads, “It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto.” In addition, under California Fish and Game Code Section 3503.5, “it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto”. Passerines and non-passerine land birds are further protected under California Fish and Game Code 3513. As such, CDFW typically recommends surveys for nesting birds that could potentially be directly (e.g., actual removal of trees/vegetation) or indirectly (e.g., noise disturbance) impacted by project-related activities. Disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered “take” by CDFW.

The CNPS is a private plant conservation organization dedicated to the monitoring and protection of sensitive species in the State. This organization has compiled an inventory comprised of the information focusing on geographic distribution and qualitative characterization of rare, threatened, or endangered vascular plant species of California (Tibor 2001). The list serves as the candidate list for listing as threatened and endangered by CDFW. The CNPS has developed five categories of rarity (CRPR):

CRPR 1A	Presumed extinct in California
CRPR 1B	Rare, threatened, or endangered in California and elsewhere
CRPR 2A	Plants presumed extirpated in California but common elsewhere
CRPR 2B	Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3	Plants about which we need more information – a review list
CRPR 4	Species of limited distribution in California (i.e., naturally rare in the wild), but whose existence does not appear to be susceptible to threat

As stated by the CNPS:

> “*Threat Rank is an extension added onto the California Rare Plant Rank and designates the level of endangerment by a 1 to 3 ranking with 1 being the most endangered and 3 being the least endangered. A Threat Rank is present for all California Rare Plant Rank 1B's, 2's, 4's, and the majority of California Rare Plant Rank 3's. California Rare Plant Rank 4 plants are seldom assigned a Threat Rank of 0.1, 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 California Rare Plant Rank. In addition, all California Rare Plant Rank 1A (presumed extinct in California), and some California Rare Plant Rank 3 (need more information) plants, which lack threat information, do not have a Threat Rank extension." (CNPS 2022)

0.1	Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
0.2	Fairly threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
0.3	Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

LOCAL PROTECTION AND CLASSIFICATIONS

General Plan 2005

Goal 12.1 Conserve and enhance San Bernardino's biological resources.

Policies

2.1.1 Acquire and maintain current information regarding the status and location of sensitive biological elements (species and natural communities) within the planning area, as shown on Figure NRC-1. (NR-3).

A site assessment to document existing conditions and presence/absence of sensitive resources was conducted throughout the Project Site on May 23rd and August 29th, 2022. The entire Project Site is developed or heavily disturbed and does not possess any native habitats or suitable conditions for sensitive floral or faunal species as shown in Figure 3, *Vegetation Communities* and Figures 4 to 7, *Current Project Site Photographs*.

12.1.2 Site and develop land uses in a manner that is sensitive to the unique characteristics of and that minimizes the impacts upon sensitive biological resources. (LU-1).

As previously stated, the entire Project Site is developed, heavily disturbed and does not possess any native habitats or suitable conditions for sensitive floral or faunal species.

12.1.3 Require that all proposed land uses in the "Biological Resource Management Area" (BRM), Figure NRC-2, be subject to review by the Environmental Review Committee (ERC).

The Project Site is not located within the Biological Resource Management Area and review by the ERC is not required.

12.1.4 Require that development in the BRM: a. Submit a report prepared by a qualified professional(s) that addresses the proposed project's impact on sensitive species and habitat, especially those that are identified in State and Federal conservation programs;

b. Identify mitigation measures necessary to eliminate significant adverse impacts to sensitive biological resources; c. Define a program for monitoring, evaluating the effectiveness of, and ensuring the adequacy of the specified mitigation measures; and d. Discuss restoration of significant habitats.

The Project Site is not located within the Biological Resource Management Area. No Impact.

Goal 12.2 Protect riparian corridors to provide habitat for fish and wildlife.

Policies

12.2.1 Prohibit development and grading within fifty (50) feet of riparian corridors, as identified by a qualified biologist, unless no feasible alternative exists. (LU-1).

No riparian scrub, forest, woodland habitat or riparian corridor are located within or adjacent to the Project Site as shown in Figure 3, *Vegetation Communities* and Figures 4 to 7, *Current Project Site Photographs*. No Impact.

12.2.2 Generally permit the following uses within riparian corridors: a. Education and research, excluding buildings and other structures; b. Passive (non-mechanized) recreation; c. Trails and scenic overlooks on public land(s); d. Fish and wildlife management activities; e. Necessary water supply projects; f. Resource consumptive uses as provided for in the Fish and Game Code and Title 14 of the California Administrative Code; g. Flood control projects where no other methods are available to protect the public safety; h. Bridges and pipelines when supports are not in significant conflict with corridor resources. (LU-1).

No riparian scrub, forest, woodland habitat or riparian corridor are located the Project Site. No Impact.

12.2.3 Pursue voluntary open space or conservation easements to protect sensitive species or their habitats. (NR-1).

As previously stated, the entire Project Site is developed, heavily disturbed and does not possess any native habitats or suitable conditions for sensitive floral or faunal species.

12.2.4 Development adjacent to riparian corridors shall: a. Minimize removal of vegetation; b. Minimize erosion, sedimentation, and runoff by appropriate protection or vegetation and landscape; c. Provide for sufficient passage of native and anadromous fish as specified by the California Department of Fish and Game; d. Minimize wastewater discharges and entrapment; e. Prevent groundwater depletion or substantial interference with surface and subsurface flows; and provide for natural vegetation buffers.

As previously stated, no riparian scrub, forest, woodland habitat or riparian corridor is located within the Project Site. The adjacent reach of the Santa Ana River (wildlife movement corridor) located southeast of the Project Site will not be directly or indirectly impacted as a result of project initiation as discussed in the following sections. No Impact.

12.2.5 Permit modification of the boundaries of the designated riparian corridors based on field research and aerial interpretation data as part of biological surveys.

As previously stated, no riparian scrub, forest, woodland habitat or riparian corridor is located within the Project Site. No Impact.

Goal 12.2 Establish open space corridors between and to protected wildlands.

Policies

12.3.1 Identify areas and formulate recommendations for the acquisition of property, including funding, to establish a permanent corridor contiguous to the National Forest via Cable Creek and/or Devil Canyon. The City shall consult with various federal, state and local agencies and City departments prior to the adoption of any open space corridor plan.

The Project Site is not located within or adjacent to Cable Creek or Devil Canyon. No Impact.

12.3.2 Seek to acquire real property rights of open space corridor parcels identified as being suitable for acquisition. (NR-1).

The Project Site is not located within an open space corridor. No Impact.

12.3.3 Establish the following habitat types as high-priority for acquisition as funds are available: a. Habitat of endangered species; b. Alluvial scrub vegetation; c. Riparian vegetation dominated by willow, alder, sycamore, or native oaks; and d. Native walnut woodlands.

A site assessment to document existing conditions and presence/absence of sensitive resources was conducted throughout the Project Site on May 23rd and August 29th, 2022. The entire Project Site is developed or heavily disturbed and does not possess any native habitats or suitable conditions for sensitive floral or faunal species as shown in Figure 3, *Vegetation Communities* and Figures 4 to 7, *Current Project Site Photographs*. No Impact.

12.3.4 Preserve and enhance the natural characteristics of the Santa Ana River, City Creek, and Cajon Creek as habitat areas.

12.3.5 Prevent further loss of existing stands of Santa Ana River Wooly-star (*Eriastrum densifolium sanctorum*) and Slender-horned Centrostegia (*Centrostegia leptoceras*).

The entire Project Site is developed, heavily disturbed and does not possess any native habitats or suitable conditions for sensitive floral or faunal species including the Santa Ana River wooly-star and slender-horned spineflower.

Municipal Codes

As stated by the Placeworks General Plan Update and Associated Specific Plans EIR:

> "*City Ordinance MC-1027, 9-8-98 and MC-682, 11-6-89 (Municipal Code, Title 15, Chapter 15.34) prohibits the removal and/or destruction of more than five (5) trees within any thirty-six (36) month period from a development site or parcel of property without first being issued a permit from the Development Services Department. Per the ordinances, a permit shall not be required when a lawful order to remove the trees for health and safety purposes has been issued by a local, state or federal government agency; nor shall a permit be required if a removal is to be accomplished by, or under the auspices of a governmental entity*." (Placeworks 2005)

As stated by the Placeworks General Plan Update and Associated Specific Plans EIR:

> **Development Codes**
>
> *"The City's Development Code (Title 19, Land Use/Subdivision Regulations) also contains a Hillside Management Overlay District that allows for low-density residential development in the City's hillside areas. Policies of this overlay district regulate protection of the hillside's natural and topographic character, environmental, and aesthetic qualities through requirements to minimize grading and erosion effects, and preservation of slope banks, ridgelines, significant rock outcroppings, native plant materials, and natural hydrology."* (Placeworks 2005)

SENSITIVE HABITATS

As stated by CDFW:

> "*One purpose of the vegetation classification is to assist in determining the level of rarity and imperilment of vegetation types. Ranking of alliances according to their degree of imperilment (as measured by rarity, trends, and threats) follows NatureServe's Heritage Methodology, in which all alliances are listed with a G (global) and S (state) rank. For alliances with State ranks of S1-S3, all associations within them are also considered to be highly imperiled*". (CDFW 2022f)

No sensitive or undisturbed native habitats were documented within the Project Site. The Project Site is characterized as developed and heavily disturbed.

PROTECTED TREES

Several mature trees are located throughout the Project Site. To ensure the proposed action does not conflict with the City of San Bernardino's Ordinance MC-1027, 9-8-98 and MC-682, 11-6-89 (Municipal Code, Title 15, Chapter 15.34) a tree removal permit will be required from the Development Services Department. Specifically, a certified arborist survey and report will be required to evaluate existing trees and proposed replacement as warranted prior to the issuance of a tree removal permit, as determined by the Development Services Department (**CM BIO-1**).

SENSITIVE PLANTS

Based on a review of the CNDDB and existing conditions within and adjacent to the property, a total of eleven (11) sensitive plant species listed in the State database have potential to occur within the vicinity of the Project as presented in Table 2, *Sensitive Plant Species Assessment* (CNDDB 2022a). No suitable habitat for sensitive plant species including those listed as federal or state threatened/endangered was documented within the Project Site. No sensitive plant species listed in Table 2 or undisturbed native habitats were documented within the Project Site. The Project Site is characterized as developed and heavily disturbed.

Table 2.
Sensitive Plant Species Assessment

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Horn's milk-vetch (*Astragalus hornii* var. *hornii*) CRPR 1B.1	Annual herb generally blooming from May to October in meadows, seeps and playas (CNPS 2022).	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Smooth tarplant (*Centromadia pungens* ssp. *laevis*) CRPR 1B.1	Annual herb which generally blooms from April to September within chenopod scrub, meadows and seeps, playas, riparian woodland, valley and foothill grassland (alkaline substrates). (CNPS 2022)	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Parry's spineflower (*Chorizanthe parryi var. parryi*) CRPR 1B.1	Annual herb which generally blooms from April to June within chaparral, cismontane woodland, coastal scrub and grassland habitats with sandy and/or rocky openings. (CNPS 2022)	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Slender-horned spineflower (*Dodecahema leptoceras*) CRPR 1B.1 FE/SE	Annual herb which generally blooms from April to June within chaparral, cismontane woodland and coastal scrub (alluvial fan) with sandy substrates. (CNPS 2022)	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Santa Ana River woollystar (*Eriastrum densifolium ssp. sanctorum*) FE/SE CRPR 1B.1	Perennial herb which generally blooms from April to September within chaparral, coastal scrub (alluvial fan) in sandy and gravelly substrates (CNPS 2022).	Not detected or expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Mesa horkelia (*Horkelia cuneata ssp. puberula*) CRPR 1B.1	Perennial herb which generally blooms from February to September within chaparral (maritime), cismontane woodland and coastal scrub with sandy or gravelly substrates. (CNPS 2022)	Not detected or expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Southern California black walnut (*Juglans californica*) CRPR 4.2	Perennial tree generally blooming from March to August (CNPS 2022)	Not detected onsite.
Robinson's pepper-grass (*Lepidium virginicum var. robinsonii*) CRPR 4.3	Annual herb which generally blooms from January to July within chaparral and coastal sage scrub habitats (CNPS 2022).	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Parish's desert-thorn (*Lycium parishii*) CRPR 2B.3	Perennial herb which generally blooms from March to April in coastal scrub and Sonoran Desert scrub habitats. (CNPS 2022)	Not detected or expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Pringle's monardella (*Monardella pringlei*) CRPR 1A	Annual herb which generally blooms from May to June in coastal scrub dominated sandy substrates. (CNPS 2022)	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Chaparral ragwort (*Senecio aphanactis*) CRPR 2B.2	Annual herb which generally blooms from January to May within chaparral, cismontane woodland and coastal scrub habitats. (CNPS 2022)	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.

California Native Plant Society (CNPS): California Rare Plant Rank (CRPR)
CRPR 1A – plants presumed extinct in California
CRPR 1B – plants rare, threatened, or endangered in California, but more common elsewhere
CRPR 2A – plants presumed extirpated in California but common elsewhere
CRPR 2B – plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3 – plants about which we need more information, a review list
CRPR 4 – plants of limited distribution, a watch list
.1 – Seriously endangered in California
.2 – Fairly endangered in California
.3 – Not very endangered in California

Federal (USFWS) Protection and Classification
FE – Federally Endangered
FT – Federally Threatened
FC – Federal Candidate for Listing

State (CDFW) Protection and Classification
SE – State Endangered
ST – State Threatened

SENSITIVE WILDLIFE

Based on a review of the CNDDB and existing site conditions, a total of twenty-four (24) sensitive wildlife species are have the potential of occurring within the vicinity of the Project Site as presented in Table 3, *Sensitive Wildlife Species Assessment* (CNDDB 2022a). No suitable habitat for species listed as federal or state threatened/endangered was documented within the Project Site. No sensitive wildlife species or undisturbed native habitats were documented within the Project Site. The Project Site is characterized as developed and heavily disturbed.

Table 3.
Sensitive Wildlife Species Assessment

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
INVERTEBRATES		
Delhi Sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*) FE	Restricted to Delhi sand formations in Riverside and San Bernardino Counties.	No potential to occur onsite based on a lack of Delhi soils as shown in Figure 7, *Soils Association Map*. The Project Site is not located within a USFWS recovery unit and the property is developed and heavily disturbed.
FISH		
Santa Ana sucker (*Catostomus santaanae*) FT	Preferred habitat, open water and emergent vegetation.	No potential to occur onsite based on a lack of open water.
Arroyo chub (*Gila orcuttii*) SSC	Preferred habitat, open water and emergent vegetation in lower gradient streams with sand or mud substrate.	No potential to occur onsite based on a lack of open water.
REPTILES		
Orange-throated whiptail (*Aspidoscelis hyperythra*) SSC	The orange-throated whiptail occurs in RSS and chaparral where loose soils and occasional rocky areas are found.	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Coastal western whiptail (*Aspidoscelis tigris stejnegeri*) SSC	The coastal western whiptail occurs in a wide variety of habitats including coastal sage scrub, desert scrub, Riversidean alluvial fan scrub, woodlands, grasslands, playas, and respective ecotones between these habitats.	Not detected. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Red-diamond rattlesnake (*Crotalus ruber*) SSC	The red-diamond rattlesnake is often found in areas with dense vegetation especially chaparral and sage scrub up to 1,520 meters in elevation.	Not detected. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Blainville's horned lizard (*Phrynosoma blainvillii*) SSC	The horned lizard occurs primarily in scrub, chaparral, and grassland habitats.	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
BIRDS		
Bell's sage sparrow (*Artemisiospiza belli belli*) CWL	This species is typically found in chaparral on alluvial fans and foothills.	Not expected to occur onsite based on a lack of suitable undisturbed foraging or nesting vegetation.
Cooper's hawk (*Accipiter cooperii*) SSC	Cooper's hawk is most commonly found within or adjacent to riparian/oak forest and woodland habitats.	Not expected to occur onsite based on a lack of suitable undisturbed foraging or nesting vegetation.
Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*) CWL	Southern California rufous-crowned sparrow is a non-migratory bird species that primarily occurs within sage scrub and grassland habitats and to a lesser extent chaparral sub-associations. This species generally breeds on the ground within grassland and scrub communities in the western and central regions of California.	Not expected to occur onsite based on a lack of suitable undisturbed foraging or nesting vegetation.
Golden eagle (*Aquila chrysaetos*) CWL, SFP	Within southern California, the species prefers grasslands, brushlands (coastal sage scrub and chaparral), deserts, oak savannas, open coniferous forests, and montane valleys.	Not expected to occur onsite based on a lack of suitable undisturbed foraging or nesting vegetation.
Burrowing owl (*Athene cunicularia)* SSC	The burrowing owl uses predominantly open land, including grassland, agriculture (e.g., dry-land farming and grazing areas), playa, sparse coastal sage scrub, desert	Not expected to occur onsite. No potential refugia or burrows greater than 4 inches were documented within the Project Site.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
	scrub habitats. Some breeding burrowing owls are year-round residents and additional individuals from the north may winter throughout the region.	
Northern Harrier (*Circus cyaneus*) SSC	The northern harrier frequents open wetlands, wet/lightly grazed pastures, fields, dry uplands/prairies, mesic grasslands, drained marshlands, croplands, meadows, grasslands, open rangelands, fresh and saltwater emergent wetlands.	Not expected to occur onsite based on a lack of suitable undisturbed foraging or nesting vegetation.
Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) FT/SE	Although the preferred habitat, riparian scrub and forest, is well distributed at scattered locations within the Plan Area in the Riverside Lowland Bioregions, the western yellow-billed cuckoo apparently no longer inhabits much of this habitat.	No potential to occur onsite based on a lack of riparian scrub, forest or woodland habitats within the Project Site.
Southwestern willow flycatcher (*Empidonax traillii extimus*) FE/SE	The southwestern willow flycatcher is narrowly distributed at few locations within the Plan Area. Although the preferred habitat, riparian woodland and select other forests, is well distributed within all bioregions and spread over the entire Plan Area, few current locations for the willow flycatcher have been documented.	No potential to occur onsite based on a lack of riparian scrub, forest or woodland habitats within the Project Site. The Project Site is located immediately west of the USFWS designated critical habitat for the federally endangered southwestern willow flycatcher – Figure 9, *Vegetation Communities Impact Map*. The proposed action will not directly or indirectly impact USFWS designated critical habitat for the federally endangered southwestern willow flycatcher as indicated in the following section.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Loggerhead shrike (*Lanius ludovicianus*) SSC	This species of shrike hunts in open or grassy areas and nests in large chaparral shrubs such as ceanothus and lemonade berry.	Not expected to occur onsite based on a lack of suitable undisturbed foraging or nesting vegetation.
Coastal California gnatcatcher (*Polioptila californica californica*) FT/SSC	The coastal California gnatcatcher is a non-migratory bird species that primarily occurs within sage scrub habitats in coastal southern California dominated by California sagebrush.	Not expected to occur onsite based on a lack of suitable breeding and foraging habitat.
Least Bell's vireo (*Vireo bellii pusillus*) FE/SE	Least Bell's vireo resides in riparian habitats with a well-defined understory including southern willow scrub, mule fat, and riparian forest/woodland habitats.	No potential to occur onsite based on a lack of riparian scrub, forest or woodland habitats within the Project Site.
MAMMALS		
Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*) SSC	The northwestern San Diego pocket mouse occurs in coastal sage, upland sage scrubs, and alluvial fan sage scrub, sage scrub/grassland ecotones, chaparral, and desert scrubs at all elevations up to 6,000 feet.	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
San Bernardino kangaroo rat (*Dipodomys merriami parvus*) FE/SSC	Prefers alluvial scrub, coastal sage scrub habitats with sandy and gravelly substrates.	Not expected to occur onsite based on a complete lack of suitable undisturbed vegetation or soils. The Project Site is devoid of native vegetation and no kangaroo rat burrows were detected onsite.
Western mastiff bat (*Eumops perotis californicus*) SSC	Roosts in rocky areas and forages in grassland, shrublands, and woodlands.	Not expected to occur onsite based on a lack of suitable habitat.
Western yellow bat (*Lasiurus xanthinus*) SSC	Roosts in the skirts of palm trees and forages in adjacent habitats.	Not expected to occur onsite based on a lack of suitable foraging habitat within the vicinity of the Project Site.

Species Name (*Scientific Name*) Status	Habitat Description	Comments
San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) SSC	The San Diego black-tailed jackrabbit in open habitats, primarily including grasslands, sage scrub, alluvial fan sage scrub, and Great Basin sage scrub.	Not observed or expected to occur onsite based on a lack of suitable habitat and sign of burrow structures.
Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) SSC	Low elevation grassland alluvial sage scrub and coastal sage scrub habitats.	Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils. The Project Site is devoid of native vegetation.

Federal (USFWS) Protection and Classification
FE – Federally Endangered
FT – Federally Threatened
FC – Federal Candidate for Listing

State (CDFW) Protection and Classification
SE – State Endangered
SSC – State Species of Special Concern
CWL – California Watch List
SPF – State Fully Protected

The Project Site is located immediately west of the USFWS designated critical habitat for the federally endangered southwestern willow flycatcher. The proposed action will not directly or indirectly impact USFWS designated critical habitat for the federally endangered southwestern willow flycatcher as indicated in the following section.

JURISDICTIONAL WETLAND RESOURCES

No wetlands or jurisdictional resources regulated by the USACE, CDFW, or RWQCB were documented within the Project Site. The adjacent reach of the Santa Ana River located southeast of the Project Site will not be directly or indirectly impacted as a result of project initiation as discussed in the following sections.

Impacts to water quality would be less than significant during both construction and operation (i.e., if warranted, compliance with National Pollutant Discharge Elimination System (NPDES) permit and MS4 code provisions would ensure no impacts to species, and compliance with County of San Bernardino Phase 1 Municipal Separate Storm Sewer System (MS4) permit requirements and LID manual would also ensure no impacts to species).

ENVIRONMENTAL IMPACTS

The following section includes an analysis of the direct and/or indirect impacts of the proposed action on sensitive biological resources. This analysis characterizes the project related activities that are anticipated to adversely impact the species, and when feasible,

quantifies such impacts. Direct effects are defined as actions that may cause an immediate effect on the species or its habitat, including the effects of interrelated actions and interdependent actions. Indirect effects are caused by or result from the proposed actions, are later in time, and are reasonably certain to occur. Indirect effects may occur outside of the area directly affected by the proposed action.

THRESHOLD OF SIGNIFICANCE

The environmental impacts relative to biological resources are assessed using impact significance criteria which mirror the policy statement contained in the CEQA at Section 21001 (c) of the Public Resources Code. This section reflects that the legislature has established it to be the policy of the state to:

> "*Prevent the elimination of fish and wildlife species due to man's activities, ensure that fish and wildlife populations do not drop below self-perpetuating levels, and preserve for future generations representations of all plant and animal communities*…"

The following definitions apply to the significance criteria for biological resources:

- "*Endangered*" means that the species is listed as endangered under state or federal law.

- "*Threatened*" means that the species is listed as threatened under state or federal law.

- "*Rare*" means that the species exists in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens.

- "*Region*" refers to the area within southern California that is within the range of the individual species.

- "*Sensitive habitat*" refers to habitat for plants and animals (1) which plays a special role in perpetuating species utilizing the habitat on the property, and (2) without which there would be substantial danger that the population of that species would drop below self-perpetuating levels.

- "*Substantial effect*" means significance loss or harm of a magnitude which, based on current scientific data and knowledge, (1) would cause a species or a native plant or animal community to drop below self-perpetuating levels on a statewide or regional basis or (2) would cause a species to become threatened or endangered.

Also, the determination of impacts has been made according to the federal definition of "*take*". FESA prohibits the "*taking*" of a member of an endangered or threatened wildlife species or removing, damaging, or destroying a listed plant species by any person (including private individuals and private or government entities). FESA defines "*take*" as "*to harass, harm, pursue, hunt, shoot, would, kill, trap, capture or collect*" an endangered or threatened species, or to attempt to engage in these activities.

DIRECT IMPACTS

Specifically, the biological resources assessment report addresses the following CEQA Environmental Checklist items.

Environmental Issues	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the Project:				
a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				**X**
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				**X**
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				**X**
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				**X**
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			**X**	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Native Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				**X**

a) *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS?*

No Impact. The 18.67-acre proposed project would not have a substantial adverse effect, either directly or through habitat modifications, on any plant or wildlife species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS. No native undisturbed suitable habitat, soils or sensitive plant/wildlife species observations were documented or expected to occur within the Project Site as outlined in Table 2. *Sensitive Plant Species Assessment*, and Table 3, *Sensitive Wildlife Species Assessment*. No federal or state permits are required. The Project Site is characterized as developed and heavily disturbed and is primarily surrounded by existing high traffic roads and commercial /residential homesite development. Therefore, no mitigation is required or proposed.

b) *Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS*?

No Impact. No riparian, sensitive or undisturbed native/natural habitats were documented within the Project Site as outlined in Table 4, *Project Site Vegetation Community Impacts,* and Figure 9, *Vegetation Communities Impact Map*.

The Project Site is characterized as developed, heavily disturbed with scattered ornamental trees and palms, no natural undisturbed habitats occur onsite, and the property is primarily surrounded by existing commercial development, residential homesites and high traffic roads. The adjacent reach of the Santa Ana River located southeast of the Project Site will not be directly impacted as a result of project initiation as discussed in the following sections. Therefore, no mitigation is required or proposed.

Table 4. Project Site Vegetation Community Impacts

Vegetation Community	Project Site Acres	Impacts (Acres)
Developed	13.46	13.46
Disturbed	3.54	3.54
Ornamental Landscaping	1.67	1.67
TOTAL	**18.67**	**18.67**

Source: Cadre Environmental 2022.

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

No Impact. No wetlands or jurisdictional resources regulated by the USACE, CDFW, or RWQCB were documented within the Project Site. The adjacent reach of the Santa Ana River located southeast of the Project Site will not be directly or indirectly impacted as a result of project initiation as discussed in the following sections. Therefore, no mitigation is required or proposed.

East Norman Road

East Orange Show Road

Lena Road

PROJECT SITE BOUNDARY

BUILDING AREA
397,700 S.F.

PROJECT SITE

62 DOCK DOORS

APPROX. LOCATION OF EXISTING CELL TOWER

USFWS
Southwestern Willow Flycatcher
Critical Habitat

Santa Ana River
San Bernardino Flood Control District

Legend

DEV	Developed
DIS	Disturbed Habitat
ORN	Ornamental Landscaping

APN's 280-172-01, -02, -04, -11, -17, -19 to -22, 280-192-01, -02, -04 to -13, -16, -18 to -22, 280-202-07 to -09, and -11

Project Site Impact Boundary

Figure 9 - Vegetation Communities Impact Map
Biological Resources Technical Report
Gateway South Building 9

Source: HPA Architecture 2022

CADRE Environmental

1 inch = 100 feet

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

No Impact. The Project Site is developed, heavily disturbed, primarily surrounded by existing high traffic roads and commercial development and does not represent a wildlife movement corridor or route between open space habitats. The adjacent reach of the Santa Ana River (wildlife movement corridor) located southeast of the Project Site will not be directly impacted as a result of project initiation as discussed in the following sections. Therefore, no mitigation is required or proposed.

The onsite disturbed habitat represents low potential habitat for common ground nesting bird species such as killdeer. However, the numerous ornamental trees provide suitable nesting habitat for both birds and raptors. Loss of an active nest would conflict with CDFG Codes 3503 & 3513. Implementation of Conservation Measure **CM BIO-2**: Nesting Bird and Raptor Preconstruction Surveys will ensure compliance with the CDFG Codes.

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

Less Than Significant. Several mature trees are located throughout the Project Site. To ensure the proposed action does not conflict with the City of San Bernardino's Ordinance MC-1027, 9-8-98 and MC-682, 11-6-89 (Municipal Code, Title 15, Chapter 15.34) a tree removal permit will be required from the Development Services Department. Specifically, a certified arborist survey and report will be required to evaluate existing trees and proposed replacement as warranted prior to the issuance of a tree removal permit, as determined by the Development Services Department (**CM BIO-1**).

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

No Impact. The Project Site is not located within or adjacent to a Conservation Program Area. Therefore, implementation of the project would not result in a conflict with the provisions of an adopted habitat conservation plan and no impact would occur. Also, the Project Site is not located within or adjacent to the adopted "Draft West Valley Habitat Conservation Plan" for the Delhi Sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*; DSF). Therefore, no mitigation is required or proposed.

INDIRECT IMPACTS

Potential indirect impacts include hydrological modification, discharges, lighting, and construction noise.

Water Quality

Potential indirect impacts to water quality would be less than significant during both construction and operation (i.e., compliance with NPDES permit and MS4 code provisions, as warranted, would ensure no impacts to species, and compliance with

County of San Bernardino Phase 1 Municipal Separate Storm Sewer System (MS4) permit requirements and LID manual would also ensure no impacts to species).

Toxics

Toxic sources within the Project Site would be limited to those commonly associated with commercial developments such as pesticides, insecticides, herbicides, fertilizers, and vehicle emissions. In order to mitigate for the potential effects of these toxics, the project will incorporate structural BMPs, as required in association with compliance with the NPDES permit system as warranted, in order to reduce the level of toxins introduced into the drainage system. Water quality measures will be implemented and no significant impacts are anticipated.

Lighting

No impacts related to lighting would occur during both construction and operation. All temporary and permanent lighting along the approximately 200-foot boundary located adjacent to the Santa Ana River will be directed away from the regional wildlife movement corridor and USFWS designated critical habitat for the federally endangered southwestern willow flycatcher. No impact.

Noise

Noise and vibration associated with the use of heavy equipment during project construction has the potential to disrupt bird nesting, foraging and breeding behavior within the Project Site. Conservation Measure **CM BIO-2:** Nesting Bird and Raptor Preconstruction Survey has been incorporated into the project to collectively contribute to reducing potential indirect noise impacts to nesting bird species located within the Project Site. No impact anticipated.

CUMULATIVE IMPACTS

The temporary direct and/or indirect impacts of the project would not result in significant cumulative impacts (CEQA Section 15310) to environmental resources within the region of the Project Site. Cumulative impacts refer to incremental effects of an individual project when assessed with the effects of past, current, and proposed projects. The project represents the development of 18.67-acres of disturbed habitat, surrounded by commercial development and high traffic roads, and therefore will not result in an adverse cumulative impact to sensitive resources. Impacts related to buildout of the City and Sphere of Influence are anticipated to be less than significant if projects comply with General Plan policies and standard conditions.

No sensitive species or habitats were detected within the Project Site. Therefore, project initiation would not conflict with the general plan policies and standard conditions for the protection of sensitive resources.

CONSERVATION MEASURE

The following biological conservation measures (Conditions of Approval) are relevant to the protection of biological resources to the extent practicable as part of ensuring all potential impacts to sensitive or regulated biological resources are in compliance with CEQA.

CM BIO-1: City of San Bernardino Tree Removal Permit

Several mature trees are located throughout the Project Site. To ensure the proposed action does not conflict with the City of San Bernardino's Ordinance MC-1027, 9-8-98 and MC-682, 11-6-89 (Municipal Code, Title 15, Chapter 15.34) a tree removal permit will be required from the Development Services Department. Specifically, a certified arborist survey and report will be required to evaluate existing trees and proposed replacement as warranted prior to the issuance of a tree removal permit, as determined by the Development Services Department.

CM BIO-2: Nesting Bird and Raptor Preconstruction Survey

To avoid impacts to nesting birds within or adjacent to the Project Site and to comply with the CDFG Codes 3503 & 3513, initial grubbing should occur between the non-nesting (or non-breeding) season for ground nesting birds (generally, September 1st to January 31st). If this avoidance schedule is not feasible, the alternative is to carry out such activities under the supervision of a qualified biologist. This shall entail the following:

A qualified biologist shall conduct a pre-construction nesting bird survey no more than 14 days prior to initiating ground disturbance activities. The survey will consist of full coverage of the proposed disturbance limits, determined by the biologist and taking into account the species nesting in the area and the habitat present. If no active nests are found, no additional measures are required.

If "occupied" nests are found, their locations shall be mapped, species documented, and, to the degree feasible, the status of the nest (e.g., incubation of eggs, feeding of young, near fledging) recorded. The biologist shall establish a no-disturbance buffer around each active nest. The buffer area will be determined by the biologist based on the species present, surrounding habitat, and type of construction activities proposed in the area. No construction or ground disturbance activities shall be conducted within the buffer until the biologist has determined the nest is no longer active and has informed the construction supervisor that activities may resume.

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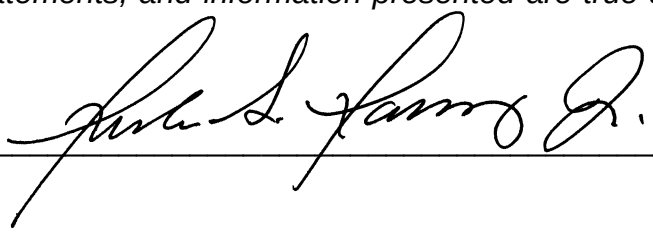
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Certification "*I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge".*

Author:  Date: August 30th, 2022

Contact: Ruben S. Ramirez, Jr. 949-300-0212, r.ramirez@cadreenvironmental.com

Appendix D:

Cultural Resources Assessment

CULTURAL RESOURCES ASSESSMENT

Alliance GWS Building 9 Project

City of San Bernardino, San Bernardino County, California

Prepared for:

Miles Eaton
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3880 Lemon Street, Suite 420
Riverside, California 92501

Prepared by:

David Brunzell, M.A., RPA
BCR Consulting LLC
Claremont, California 91711

Project No. KIM2213

Data Base Information:
Type of Study: Intensive Survey
Resources Recorded: Historic-Period Residences at 652, 668, 684, 706 East Orange Show Road; 707, 715, 787, 807, 861/867, 24551, 24993/695/685 E. Norman Road; 24432 Pioneer Road/646 East Orange Show Road
USGS Quadrangle: 7.5-minute *San Bernardino South, California* (1980)

BCRCONSULTING LLC

December 14, 2022

MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Kimley Horn to complete a Cultural Resources Assessment of the proposed Alliance GWS Building 9 (project) in the City of San Bernardino (City), San Bernardino County, California. A cultural resources records search, intensive-level pedestrian field survey, significance evaluations for 12 properties containing historic-period buildings, Sacred Lands File Search with the Native American Heritage Commission, and vertebrate paleontological resources assessment were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA).

The records search revealed that 10 previous cultural resources studies have taken place, and five cultural resources have been previously recorded within one half-mile of the project site. Of the 10 previous studies, none has previously assessed the project site, and no cultural resources have been previously recorded within its boundaries. During the field survey, BCR Consulting personnel identified 12 properties containing historic-period buildings within the project site boundaries. These resources are not recommended eligible for the California Register of Historical Resources (California Register). As such, none of the resources are recommended "historical resources" under CEQA and do not warrant further consideration. Therefore, no significant impact related to historical resources is anticipated and no further investigations are recommended for the proposed project unless:

- The proposed project is changed to include areas that have not been subject to this cultural resource assessment;
- Cultural materials are encountered during project activities.

The current study attempted to determine whether significant archaeological deposits were present on the proposed project site. Although none were yielded during the records search and field survey, ground-disturbing activities have the potential to reveal buried deposits not observed on the surface. Prior to the initiation of ground-disturbing activities, field personnel should be alerted to the possibility of buried prehistoric or historic cultural deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register of Historic Places (National Register), plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- historic-period artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- historic-period structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- groundstone artifacts, including mortars, pestles, and grinding slabs;
- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;
- human remains.

Findings were positive during the Sacred Lands File search with the NAHC. The results of the Sacred Lands File search are provided in Appendix D. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The Paleontological Overview provided in Appendix C has recommended that:

> The geologic units underlying the project area is mapped as Holocene alluvial fan deposits of gravel and sand (Dibblee and Minch, 2004). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.
>
> While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

If human remains are encountered during any project activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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INTRODUCTION

BCR Consulting LLC (BCR Consulting) is under contract to Kimley Horn to complete a Cultural Resources Assessment of the proposed Alliance GWS Building 9 Project (project) in the City of San Bernardino, San Bernardino County, California. A cultural resources records search, intensive-level pedestrian field survey, significance evaluations, Sacred Lands File Search with the Native American Heritage Commission, and vertebrate paleontological resources assessment were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA).

Project Description and Location

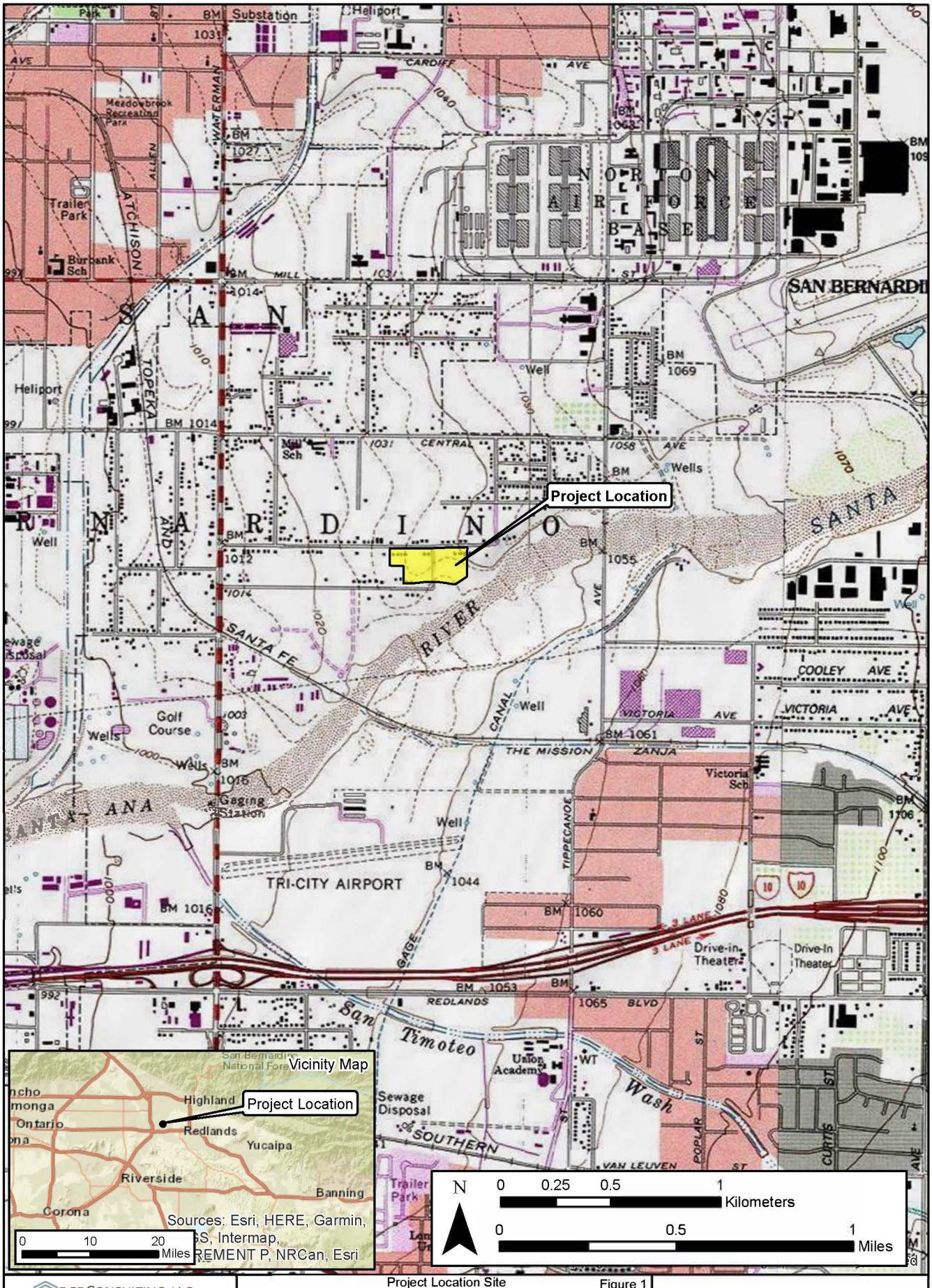
This project proposes the construction of industrial buildings. The project occupies approximately 12.35 acres, generally located east of the intersection of Orange Show Road. The project site is located in a non-sectioned portion of Township 1 South, Range 4 West, San Bernardino Baseline and Meridian. The project is depicted on the United States Geological Survey (USGS) *San Bernardino South, California* (1980) 7.5-minute topographic quadrangle (Figure 1).

Regulatory Setting

The California Environmental Quality Act. CEQA applies to all discretionary projects undertaken or subject to approval by the state's public agencies (California Code of Regulations 14(3), § 15002(i)). Under CEQA, "A project with an effect 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" (Cal. Code Regs. tit. 14(3), § 15064.5(b)). State CEQA Guidelines section 15064.5(a) defines a "historical resource" as a resource that meets one or more of the following criteria:

- Listed in, or eligible for listing in, the California Register of Historical Resources (California Register)
- Listed in a local register of historical resources (as defined at Cal. Public Res. Code § 5020.1(k))
- Identified as significant in a historical resource survey meeting the requirements of § 5024.1(g) of the Cal. Public Res. Code
- Determined to be a historical resource by a project's lead agency (Cal. Code Regs. tit. 14(3), § 15064.5(a))

A historical resource consists of "Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California…Generally, a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing in the California Register of Historical Resources" (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)). The significance of a historical resource is impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for the California Register. If an



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Project Location Site
Alliance GWS Bldg 9 Project
Reference: ESRI; USGS Quad: San Bernardino South, California (1980)

Figure 1

Kimley-Horn

impact on a historical or archaeological resource is significant, CEQA requires feasible measures to minimize the impact (State CEQA Guidelines § 15126.4 (a)(1)). Mitigation of significant impacts must lessen or eliminate the physical impact that the project will have on the resource.

Section 5024.1 of the Cal. Public Res. Code established the California Register. Generally, a resource is considered by the lead agency to be "historically significant" if the resource meets the criteria for listing in the California Register (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)). The eligibility criteria for the California Register are similar to those of the National Register of Historic Places (National Register), and a resource that meets one or more of the eligibility criteria of the National Register will be eligible for the California Register.

The California Register program encourages public recognition and protection of resources of architectural, historical, archaeological, and cultural significance, identifies historical resources for state and local planning purposes, determines eligibility for state historic preservation grant funding and affords certain protections under CEQA. Criteria for Designation:

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
2. Associated with the lives of persons important to local, California or national history.
3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). Fifty years is normally considered sufficient time for a potential historical resource, and in order that the evaluation remain valid for a minimum of five years after the date of this report, all resources older than 45 years (i.e. resources from the "historic-period") will be evaluated for California Register listing eligibility, or CEQA significance. The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

Finally, CEQA requires that significant effects on unique archaeological resources be considered and addressed. CEQA defines a unique archaeological resource as any archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information.
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

CEQA Guidelines Section 15064.5 Appendix G includes significance criteria relative to archaeological and historical resources. These have been utilized as thresholds of significance here, and a project would have a significant environmental impact if it would:

a) cause a substantial adverse change in the significance of a historical resource as defined in section 10564.5;
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 10564.5;
c) Disturb any human remains, including those interred outside of formal cemeteries.

Tribal Cultural Resources. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff are available to answer questions and address comments as necessary.

Paleontological Resources. CEQA provides guidance relative to significant impacts on paleontological resources, indicating that a project would have a significant impact on paleontological resources if it disturbs or destroys a unique paleontological resource or site or unique geologic feature. Section 5097.5 of the California Public Resources Code specifies that any unauthorized removal of paleontological remains is a misdemeanor. Further, California Penal Code Section 622.5 sets the penalties for damage or removal of paleontological resources. CEQA documentation prepared for projects would be required to analyze paleontological resources as a condition of the CEQA process to disclose potential impacts. Please note that as of January 2018 paleontological resources are considered in the geological rather than cultural category. Therefore, paleontological

resources are not summarized in the body of this report. A paleontological overview completed by the Western Science Center is provided as Appendix D.

NATURAL SETTING

The elevation of the project site ranges from approximately 1070 to 1090 feet above mean sea level (AMSL). The property has been subject to severe disturbances related to residential and industrial development and uses. The project site is covered with young alluvial valley deposits (Qya5), and is adjacent to very young wash deposits (Qw and Qw1). These are locally exhibited as silty sands deposited by flooding of the Santa Ana River, which flows intermittently from northeast to southwest approximately adjacent to the southeast of the project site (USGS 1980). The current study has not yielded any evidence that local sediments have produced raw materials used in prehistoric tool manufacture within one half-mile of the project site. Local rainfall ranges from 5 to 15 inches annually (Jaeger and Smith 1971:36-37).

Although recent and historical impacts have decimated local vegetation, remnants of a formerly dominant coastal sage scrub vegetation community have been sporadically observed in the area. Signature plant species include black sage (*Salvia mellifera*), California brittlebush (*Encelia californica*), California buckwheat (*Eriogonum fasciculatum*), California sagebrush (*Artemesia californica*), deerweed (*Lotus scoparius*), golden yarrow (*Eriophyllum confertiflorum*), laurel sumac (*Malosma laurina*), lemonadeberry (*Rhus integrifolia*), poison oak (*Toxicodendron diverilobum*), purple sage (*Salvia leucophyla*), sticky monkeyflower (*Mimulus aurantiacus*), sugar bush (*Rhus ovate*), toyon (*Heteromeles arbutifolia*), white sage (*Salvia apiana*), coastal century plant (*Agave shawii*), coastal cholla (*Opuntia prolifera*), Laguna Beach liveforever (*Dudleya stolonifera*), many-stemmed liveforever (*Dudleya multicaulis*), our Lord's candle (*Yucca whipplei*), prickly pear cactus (*Opuntia sp.*) (Williams et al. 2008:118-119). Signature animal species within Coastal Sage Scrub habitat include the kangaroo rat (*Dipodomys sp.*), California horned lizard (*Phrynosoma coronatum frontale*), orange throated whiptail (*Cnemidophorus hyperthrus*), San Diego horned lizard (*Phrynosoma coronatum blainvillii*), brown-headed cowbird (*Molothrus ater*), California gnatcatcher (*Polioptila californica californica*), California quail (*Callipepla californica*), and San Diego cactus wren (*Campylorhynchus brunnecapillus sandiegensis*) (Williams et al. 2008:118-120). Local native groups made use of many of these species (see Lightfoot and Parrish 2008).

CULTURAL SETTING

Prehistoric Context

The local prehistoric cultural setting has been organized into many chronological frameworks (see Warren and Crabtree 1986; Bettinger and Taylor 1974; Lanning 1963; Hunt 1960; Wallace 1958, 1962, 1978; Campbell and Campbell 1935), although there is no definitive sequence for the region. The difficulties in establishing cultural chronologies for western San Bernardino County are a function of its enormous size and the small amount of archaeological excavations conducted there. Moreover, throughout prehistory many groups have occupied the area and their territories often overlap spatially and chronologically resulting in mixed artifact deposits. Due to dry climate and capricious geological processes, these artifacts rarely become integrated in-situ. Lacking a milieu

hospitable to the preservation of cultural midden, local chronologies have relied upon temporally diagnostic artifacts, such as projectile points, or upon the presence/absence of other temporal indicators, such as groundstone. Such methods are instructive, but can be limited by prehistoric occupants' concurrent use of different artifact styles, or by artifact re-use or re-sharpening, as well as researchers' mistaken diagnosis, and other factors (see Flenniken 1985; Flenniken and Raymond 1986; Flenniken and Wilke 1989). Recognizing the shortcomings of comparative temporal indicators, this study recommends review of Warren and Crabree (1986), who have drawn upon this method to produce a commonly cited and relatively comprehensive chronology.

Ethnography

Although no previously recorded prehistoric sites have established a local prehistoric ethnographic affiliation, the project site vicinity is situated at an ethnographic nexus peripherally occupied by the Gabrielino and Serrano. Each group consisted of semi-nomadic hunter-gatherers who spoke a variation of the Takic language subfamily. Individual ethnographic summaries are provided below.

Gabrielino. The Gabrielino probably first encountered Europeans when Spanish explorers reached California's southern coast during the 15th and 16th centuries (Bean and Smith 1978; Kroeber 1925). The first documented encounter, however, occurred in 1769 when Gaspar de Portola's expedition crossed Gabrielino territory (Bean and Smith 1978). Other brief encounters took place over the years, and are documented in McCawley 1996 (citing numerous sources). The Gabrielino name has been attributed by association with the Spanish mission of San Gabriel, and refers to a subset of people sharing speech and customs with other Cupan speakers (such as the Juaneño/Luiseño/Ajachemem) from the greater Takic branch of the Uto-Aztecan language family (Bean and Smith 1978). Gabrielino villages occupied the watersheds of various rivers (locally including the Santa Ana) and intermittent streams. Chiefs were usually descended through the male line and often administered several villages. Gabrielino society was somewhat stratified and is thought to have contained three hierarchically ordered social classes which dictated ownership rights and social status and obligations (Bean and Smith 1978:540-546). Plants utilized for food were heavily relied upon and included acorn-producing oaks, as well as seed-producing grasses and sage. Animal protein was commonly derived from rabbits and deer in inland regions, while coastal populations supplemented their diets with fish, shellfish, and marine mammals (Boscana 1933, Heizer 1968, Johnston 1962, McCawley 1996). Dog, coyote, bear, tree squirrel, pigeon, dove, mud hen, eagle, buzzard, raven, lizards, frogs, and turtles were specifically not utilized as a food source (Kroeber 1925).

Serrano. Kroeber (1925) applied the generic term "Serrano" to four groups, each with distinct territories: the Kitanemuk, Tataviam, Vanyume, and Serrano. Only one group, in the San Bernardino Mountains and West-Central Mojave Desert, ethnically claims the term Serrano. Bean and Smith (1978) indicate that the Vanyume, an obscure Takic population, was found along the Mojave River at the time of Spanish contact. The Kitanemuk lived to the north and west, while the Tataviam lived to the west. All may have used the western San Bernardino County area seasonally. Serrano villages consisted of small collections of willow-framed domed structures situated near reliable water sources. A lineage leader administered laws and ceremonies from a large ceremonial house centrally located in

most villages. Local Serrano relied heavily on acorns and piñon nuts for subsistence, although roots, bulbs, shoots, and seeds supplemented these. When available, game animals commonly included deer, mountain sheep, antelope, rabbits, small rodents, and various birds –particularly quail (Bean and Smith 1978:571).

History

Historic-era California is generally divided into three periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present).

Spanish Period. The first European to pass through the area is thought to be a Spaniard called Father Francisco Garces. Having become familiar with the area, Garces acted as a guide to Juan Bautista de Anza, who had been commissioned to lead a group across the desert from a Spanish outpost in Arizona to set up quarters at the Mission San Gabriel in 1771 near what today is Pasadena (Beck and Haase 1974). Garces was followed by Alta California Governor Pedro Fages, who briefly explored the region in 1772. Searching for San Diego Presidio deserters, Fages had traveled through Riverside to San Bernardino, crossed over the mountains into the Mojave Desert, and then journeyed westward to the San Joaquin Valley (Beck and Haase 1974).

Mexican Period. In 1821, Mexico overthrew Spanish rule and the missions began to decline. By 1833, the Mexican government passed the Secularization Act, and the missions, reorganized as parish churches, lost their vast land holdings, and released their neophytes (Beattie and Beattie 1974).

American Period. The American Period, 1848–Present, began with the Treaty of Guadalupe Hidalgo. In 1850, California was accepted into the Union of the United States primarily due to the population increase created by the Gold Rush of 1849. The cattle industry reached its greatest prosperity during the first years of the American Period. Mexican Period land grants had created large pastoral estates in California, and demand for beef during the Gold Rush led to a cattle boom that lasted from 1849–1855. However, beginning about 1855, the demand for beef began to decline due to imports of sheep from New Mexico and cattle from the Mississippi and Missouri Valleys. When the beef market collapsed, many California ranchers lost their ranchos through foreclosure. A series of disastrous floods in 1861–1862, followed by a significant drought further diminished the economic impact of local ranching. This decline combined with ubiquitous agricultural and real estate developments of the late 19th century, set the stage for diversified economic pursuits that have continued to proliferate to this day (Beattie and Beattie 1974; Cleland 1941).

Local Sequence. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of

Congress (U.S. Congress 1851, General Land Office 1865). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.).

Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996; Center for Land Use Interpretation 2013).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

PERSONNEL

David Brunzell, M.A., RPA acted as the Project Manager and Principal Investigator for the current study, completed the records search at the South Central Coastal Information Center (SCCIC), compiled the Department of Park and Recreation (DPR) 523 forms, and authored the technical report. BCR Consulting Archaeological Crew Chief Nicholas Shepetuk, B.A. and Staff Historian and Archaeological Field Technician George Brentner, B.A., completed the pedestrian field survey. BCR Consulting Staff Archaeologist Douglas Kazmier completed the additional research, and contributed to the DPR 523 forms.

METHODS

This work was completed pursuant to CEQA, the Public Resources Code (PRC) Chapter 2.6, Section 21083.2, and California Code of Regulations (CCR) Title 14, Chapter 3, Article 5, Section 15064.5. The pedestrian cultural resources survey was intended to locate and document previously recorded or new cultural resources, including archaeological sites, features, isolates, and historic-period buildings, that exceed 45 years in age within defined project boundaries. The project site was examined using 15-meter transect intervals, where accessible.

This study is intended to determine whether cultural resources are located within the project boundaries, whether any cultural resources are significant pursuant to the above-referenced regulations and standards, and to develop specific mitigation measures that will address potential impacts to existing or potential resources. Tasks completed to achieve that end include:

- Cultural resources records search to review any studies conducted and the resulting cultural resources recorded within a half-mile radius of the project boundaries
- Systematic pedestrian survey of the entire project site
- California Register of Historical Resources (California Register) eligibility evaluation for any cultural resources discovered
- Development of recommendations and mitigation measures for cultural resources documented within the project boundaries, following CEQA
- Completion of DPR 523 forms for any discovered cultural resources
- Vertebrate paleontology resources report through the Western Science Center
- Sacred Lands File search with the Native American Heritage Commission.

Research

Records Search. Prior to the field survey a records search was conducted at the SCCIC at California State University, Fullerton. This archival research reviewed the status of all recorded historic and prehistoric cultural resources, and survey and excavation reports completed within one half-mile of the current project. Additional resources reviewed included the National Register, the California Register, and documents and inventories published by the California Office of Historic Preservation. These include the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Inventory of Historic Structures.

Additional Research. BCR Consulting performed additional research through records of the General Land Office Maintained by the Bureau of Land Management, the San Bernardino County Assessor, and through various Internet resources.

Field Survey

An intensive-level cultural resources field survey of the project site was conducted on June 17, 2022 and October 12, 2022. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across 100 percent of the project site, where accessible. Cultural Resources were recorded on DPR 523 forms. Ground visibility averaged approximately 50 percent within project boundaries. Digital photographs were taken at various points within the project site. These included overviews as well as detail photographs of all cultural resources. Cultural resources were recorded per the California OHP *Instructions for Recording Historical Resources* in the field using:

- Detailed note taking for entry on DPR Forms (see Appendix B)
- Hand-held Garmin Global Positioning systems for mapping purposes
- Digital photography of all cultural resources (see Appendix B).

RESULTS

Research

Records Search. Data from the SCCIC revealed that 10 previous cultural resources studies have taken place, and five cultural resources have been recorded within one half-mile of the project site. Of the 10 previous studies, none have previously assessed the project site, and no cultural resources have been previously recorded within its boundaries. The records search is summarized in Table A and a complete records search bibliography is provided in Appendix A.

Table A. Cultural Resources and Reports Within One Half-Mile of the Project Site

USGS 7.5 Quad	Cultural Resources Within One Half-Mile	Studies Within One Half-Mile
San Bernardino South, California (1980)	P-36-6103: Historic-Period Railroad P-36-6847: Historic-Period Railroad P-36-7168: Historic-Period Gage Canal P-36-17813: Historic-Period Residence P-36-29448: Historic-Period Refuse Scatter	SB-331, 1133, 1134, 1808, 2260, 2784, 3009, 3228, 3286, 6331

Additional Research. Additional research was performed for the project site to provide the following context for the subject property (see also Field Survey Results, below). Please note that references for this section are provided in Appendix B.

24993 and 695 East Norman Road. The subject property is a residential property and contains three single-family residences. Residence 1 was built in 1922, and residences 2 and 3 were built in 1942. The doors, windows, and roofing materials have been replaced, but no permit records were available to date the modifications. Estelle F. Shaw and Erma N. Massey were the first recorded property owners and lived at the subject property since

at least 1956. The property was sold to Erma N. Gladden in 1994, and Jo Ann Curtis in 1996. Subsequent owners included Melvin Morphew, Refugio, Erick, and Euleteria Perez, Rita and Oscar Patino, Monica Gutierrez Patino, Maria Guadalupe, Patino Gutierrez, and lastly Gateway South 9 Development LLC who is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

24551 East Norman Road. The subject property is occupied by a residence built in 1956. The roof, doors, and windows have been recently replaced. The earliest documented residents were Freddie C. and Jessie Mae Williams in 1967. Calvin and Robena Wesson owned the property from prior to 1975 until 1978. Jessie, John, and Consuella Pollard owned the property from 1978 until 1983. Francisco and Aurora Gonzales owned the property from 1983 until 2022, at which time Gateway South 9 Development LLC acquired the property. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

861 and 867 East Norman Road. The subject property is occupied by a residence built in 1952. Doors, windows, and roofing materials have been replaced, but no permit records were available to date the modifications. Robert and Ninnie McDade were the first recorded property owners, with no date of acquisition available. Robert was a maintenance man for the Harris Company, and along with his wife Ninnie, an active member of the Allen Chapel African Methodist Episcopal Church in San Bernardino. Robert died in 1975 and Ninnie sold the property to Dallas and Wilma J. Evans in 1984. Subsequent owners included John L. Evans, Indian Point Inc., Daniel Cavallo, Alexander M. Bell, and lastly Gateway South 9 Development LLC, who is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

807 East Norman Road. The subject property is occupied by a residence built in in 1960. The doors and windows have since been replaced, but no permit records were available to date the modifications. Mary J. Cooper was the first recorded property owner and owned the property from 1953 prior to the construction of the residence. Mary was a minister at the Unity Center Church in San Bernardino. Charles R. Hudson was listed as a joint tenant during this time, but no records were available to indicate their relationship. Ownership passed to Edward G. Lee in 1997, and subsequent owners included Martha G. Wine, Erwin and Sandra Thomas, Dependable Corporation, Ten Four Corp., Thomas Williams and lastly Gateway South 9 Development LLC, who is the current owner. It is currently occupied by American Tow Group. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

787 East Norman Road. The subject property is occupied by a residence constructed in 1944. The windows were replaced and the siding was covered with stucco at an unknown date. Ola McDowell was the first recorded property owner and lived at the subject property prior to 1968 until her death in 1989. Ola was the Publicity Chairwoman for the General Mission Society of the St. Mark Baptist Church in San Bernardino. The property was acquired by Dorothy J. Ducksworth in December of 1989. Subsequent owners have

included Lawrence J. Prudholme Sr., Denise Ramirez, John A. Torres, Maria T. Mejia Navarro, and finally Gateway South 9 LLC who is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

715 East Norman Road. The subject property is occupied by a residence constructed in 1922. An unpermitted addition was added to the rear prior to 2002. Stucco siding and composition shingles were added at an unknown date. Ernest Green was the first recorded property owner, with no date available for reference of acquisition. Ernest Green was a Deacon at the Carter Church of God in Christ in San Bernardino. Following Green's death in 1984, the property passed to the possession of his son Herman Green. Subsequent owners include Gary L. Miller, Jovita Morga, and Gateway South 9 Development LLC, which is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

707 East Norman Road. The subject property is occupied by a residence built in 1946. The doors and windows are not original, but no permit records were available to date alterations. Ernest Green was the first recorded property owner and lived at the subject property since prior to 1971. Mr. Green also owned the property at 715 East Norman Road, next door to the east. Ernest was a Deacon at the Carter Church of God in Christ in San Bernardino. Following Green's death in 1984, the property passed to the possession of his children: Herman and Herbert Green, and Dorothy McMillen. Subsequent owners include Gary Miller, Felipe and Judith Donis, and Gateway South 9 Development LLC, which is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

706 East Orange Show Road. The subject property is occupied by a residence built in 1956. The doors, windows, and roofing materials have been recently replaced, as well as stucco and stone accents added to the facades. Michael G. and Belinda L. Mills were the first recorded property owners, and lived there in 1980 following the death of their 23-month-old son Michael J. Mills, the year prior. No more information is available regarding the Mills, aside from having sold the property to Josif and Eileen Adams in July of 1980. Subsequent owners included Jerry and Angela Cole, Hunter Savings Assn., Charles and Sharon Carter, Mucio and Maria Lozoya, Lauro Properties LLC, and lastly Gateway South 9 Development LLC who is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

684 East Orange Show Road. The subject property is occupied by a residence built in 1967. Doors and windows are missing, and the composite-shingled roof is not original, but no permit records were available to date modifications. The garage appears to be original and constructed at or near the same time as the residence according to aerial photographs. Sharon D. and James E. Webb were the first recorded property owners, and lived at the subject property since prior to 1973. James was a Navy Veteran employed by the San Bernardino Post Office, and Sharon was the Office Manager of the South San

Bernardino County Water District. Following James' death in 1990, Sharon married Clarence McZeal. In 2001 They sold the property to Julie and Joseph Caddel. The property was then passed to their son Joseph Jr. in 2009. Subsequent owners include Fernando and Ana Hernandez, and lastly Gateway South 9 Development LLC who is the current owner. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

668 East Orange Show Road. The subject property is occupied by a residence built in 1955. The roof was replaced in 2001. Fernando and Wendy Esponda were the first recorded property owners. They owned the subject property from prior to 1974, until selling to James and Barbara Cunningham in 1976, who sold to Eugene and Margarett Walker later the same year. Eugene died in 1982 and Margarett owned the property until selling to Wendell and Sheila Payton in 1982. The Wendells sold the property to Jeff T.F. Rose in 2008, who sold to Fernando and Ana Hernandez in 2021. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

652 East Orange Show Road. The subject property is occupied by a residence built in 1957. The roof has been replaced and the doors and windows have been removed at unknown dates. Preston and Jessie Hickambottom were the first recorded property owners. They owned the subject property from an unknown date until selling to Emmett and Frances Polee on April 19, 1985. The property was owned by the Polee Trust until John and Silvia Duran acquired it in 1994. The Durans sold to DHA Opportunity I LP in 2011, who sold it to Gateway South 9 Development LLC in 2022. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

646 East Orange Show Road and 24432 Pioneer Road. The subject property contains a residence built in 1959. A large porch addition was added at an unknown date. Doors and windows have been recently replaced. The earliest recorded owner was Marjorie Bruce, who owned the property from 1977 until 1988 after which Emmett and Frances B Polee acquired it. The Polees sold the property to Espiridion Gonzalez in 2000 and Mr. Gonzalez sold the property to Gateway South 9 Development LLC in 2022. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history. Confusingly, the San Bernardino County Assessor and Parcel Quest list this residence as 24432 Pioneer Avenue in Redlands, although mapping for both resources depict it at the northeast corner of Orange Show Road and Lena Road. Mailboxes in front of the residence indicate 646 East Orange Show Road, which is consistent with other addresses in the neighborhood. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

Field Survey

During the field survey Mr. Shepetuk and Mr. Brentner carefully inspected the project site and identified 12 properties containing historic-period buildings. Each of these resources is described below. No other cultural resources of any kind were identified. Overall surface

visibility was approximately 40 percent. Sediments, where visible, included highly disturbed silty sand with some gravels. Vegetation includes ornamental trees and bushes, landscaped lawns, and some seasonal grasses.

24993 and 695 East Norman Road. The subject property is a residential property and contains three single-family residences that are historic in age. Residence 1 is located on the northeastern portion of the subject property and is 1,062 square feet. The residence features wood frame construction, and a single-story floor plan and was built circa 1922. The house was constructed in the era of "Modern Houses", but changes make it difficult to connect with a particular architectural style. It exhibits elements of Minimal Traditional-style architecture although it pre-dates that style. It is fronted by a small yard and features a hipped roof with composite shingles and small front porch. Residence 2 is located to the west of residence 1 and is 753 square feet. The Post-War Minimal-Style residence exhibits wood frame construction, a front-gabled roof with composite shingles, and stucco siding. Residence 3 is 572 square feet, and is located to the southwest of residence 1 and exhibits wood frame construction, a front-gabled roof with composite shingles, and stucco siding. The doors and windows on all buildings have been replaced, but no permit records were available for these modifications, or the construction of residences 2 and 3. The original siding on residence 1 has been covered in stucco.

24551 East Norman Road. The subject property is a single-family residence that is historic in age. Residence 1 is located on the northwestern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built in 1956. It is fronted by a small lawn with ornamental trees enclosed within a wrought iron fence. It contains a front-gabled roof and small front porch with composition roofing. The building is in good condition. The original windows and doors have been replaced.

861 and 867 East Norman Road. The subject property is a residential property and contains a 1,040 square foot single-family residence that is historic in age. The residence is located on the northwestern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, hipped roof, and a single-story floor plan and was built circa 1952. It has a small front porch, and is fronted by a small yard. The original windows and front door have been replaced. The roof is topped with composite shingles, and the outer walls have been resurfaced with stucco.

807 East Norman Road. The subject property is a residential property occupied by American Tow Group and contains a 662 square foot single-family residence that is historic in age. The residence is located on the northeastern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, a single-story floor plan and was built circa 1960. It is fronted by a small yard that has been leveled and paved. It features a hipped roof topped with newer composite shingles. The outer walls have been re-surfaced with light-colored stucco, and all windows and the front door have been replaced.

787 East Norman Road. The subject property is a residential property containing a 1,032 square foot single-family residence that is historic in age. The residence is located on the

northeastern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built circa 1944. While construction was completed before the end of World War II the architectural characteristics fit with this style. The residence is fronted by a small yard and flanked by trees to the east and west. It contains a front-gabled roof and small front porch, and stucco on the outer walls which is not original. The roofing materials are composite, and the windows have all been replaced.

715 East Norman Road. The subject property is a residential property containing a 973 square foot single-family residence that is historic in age. The residence is located on the northern portion of the subject property. The building displays elements of the Craftsman style, but since its construction has been modified beyond recognition. It features wood frame construction, and a single-story floor plan and was built in 1922. It is fronted by a small yard with small trees obstructing much of the front façade from view. It features a front-gabled roof with composite shingles, a small covered front porch, and stucco siding. The building is in poor condition; the windows and doors are missing. The rear of the house features an unpermitted addition which is visible from aerial photographs beginning in 2002, also in poor condition.

707 East Norman Road. The subject property is a residential property containing an 896 square foot single-family residence that is historic in age. The residence is located on the northern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built in 1946. It is fronted by a small enclosed porch structure and a small yard that has been covered with paving tiles. It features a front-gabled roof and stucco outer walls. Vinyl windows have since been added and the building is topped by composite roofing materials. The roof's eaves which provide moderate overhang are in poor condition.

706 East Orange Show Road. The subject property is occupied by a 1,285 square-foot single-family residence that is historic in age (i.e. over 45 years old). It is located on the southeastern portion of the subject property. The Post-War Minimal style residence features wood frame construction, and a single-story floor plan and was built in 1956. It is fronted by a small yard and tree on the southwestern corner. It features a cross-gabled roof topped with composite shingles. Alterations include the shingles, vinyl window frames, and stone accents and stucco on the facades.

684 East Orange Show Road. The subject property contains a 1,850 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the southern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built circa 1967. It is fronted by a small yard and front porch. The residence features a hipped roof with composite shingles, and stucco siding. A concrete masonry unit wall is situated perpendicular to the house and connects to the façade. All doors and windows are missing from the building. To the rear of the residence is a detached garage of the same architectural style and built with the same materials. Both buildings are in poor condition.

668 East Orange Show Road. The subject property is occupied by an 804 square foot single-family residential home. The Post-War Minimal style residence features wood frame construction, and a single-story floor plan and was built in 1955. It is fronted by a small yard, concrete walkway, and trees. It features a cross-hipped roof, and stucco siding on the outer walls. The property is enclosed by a short chain-link fence to the west, a tall chain link fence to the east and a metal gate to the south. The roofing was replaced with composite shingles in 2001.

652 East Orange Show Road. The subject property is occupied by a 1,222 square foot single-family residence. The Post-War Minimal style residence features wood frame construction, and a single-story floor plan and was built in 1957. It is fronted by a small yard. It contains a hipped, composite roof which is not original, and corrugated roofing to the east used as a carport. The property is enclosed by a tall wooden fence on the west, a chain link fence to the east and a metal gate on the south. The windows and doors have been removed.

646 East Orange Show Road and 24432 Pioneer Road. The subject property contains a single-family residence that is historic in age. A large porch addition and tree obscure much of the main façade, but the layout is consistent with a Post-War Minimal architectural style. It features wood frame construction, and a single-story floor plan and was built in 1959. It contains a front-gabled roof (which appears to be part of the porch addition) and composition shingles. The original windows have been replaced with vinyl windows. The building is in good condition.

SIGNIFICANCE EVALUATIONS

During the field survey, 12 properties containing historic-period buildings were identified. CEQA calls for the evaluation and recordation of historic and archaeological resources. The criteria for determining the significance of impacts to cultural resources are based on Section 15064.5 of the *CEQA Guidelines* and Guidelines for the Nomination of Properties to the California Register. Properties eligible for listing in the California Register and subject to review under CEQA are those meeting the criteria for listing in the California Register, or designation under a local ordinance.

Significance Criteria

California Register of Historical Resources. The California Register criteria are based on National Register criteria. For a property to be eligible for inclusion on the California Register, one or more of the following criteria must be met:

1. It is associated with the events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the U.S.;
2. It is associated with the lives of persons important to local, California, or U.S. history;

3. It embodies the distinctive characteristics of a type, period, region, or method of construction, represents the work of a master, possesses high artistic values; and/or
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

California Register Evaluations

24993 and 695 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: All three residences lack architectural distinction and do not display significant elements of the era during which they were constructed. None of the buildings significantly represents the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age buildings are therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

24551 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

861 and 867 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research

has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

807 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

787 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

715 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3:

The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

707 East Norman Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

706 East Orange Show Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

684 East Orange Show Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly

represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

668 East Orange Show Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

652 East Orange Show Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

646 East Orange Show Road and 24432 Pioneer Road. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3.

Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

RECOMMENDATIONS

Based on these results, BCR Consulting recommends that no additional cultural resources work or monitoring is necessary during proposed project activities associated with the Alliance GWS Building 9 Project. Therefore, no significant impact related to historical resources is anticipated and no further investigations are recommended unless:

- The proposed project is changed to include areas that have not been subject to this cultural resource assessment;
- Cultural materials are encountered during project activities.

The current study attempted to determine whether significant archaeological deposits were present on the proposed project site. Although none were yielded during the records search and field survey, ground-disturbing activities have the potential to reveal buried deposits not observed on the surface. Prior to the initiation of ground-disturbing activities, field personnel should be alerted to the possibility of buried prehistoric or historic cultural deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register of Historic Places (National Register), plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- historic-period artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- historic-period structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- groundstone artifacts, including mortars, pestles, and grinding slabs;
- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;
- human remains.

Findings were positive during the Sacred Lands File search with the NAHC. The results of the Sacred Lands File search are provided in Appendix C. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local

and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The Paleontological Overview provided in Appendix D has recommended that:

> The geologic units underlying the project area is mapped as Holocene alluvial fan deposits of gravel and sand (Dibblee and Minch, 2004). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.
>
> While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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APPENDIX A

CULTURAL RESOURCE RECORDS SEARCH BIBLIOGRAPHY

Report List

KIM2213

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-00331	NADB-R - 1060331; Voided - 76-4.16	1976	FRYMAN, JR., FRANK B.	AN ARCHAEOLOGICAL SURVEY OF THE PROPOSED PARK MOABI MOTORCYCLE RACE COURSE PROJECT AREA, SAN BERNARDINO COUNTY, CALIFORNIA	ARIZONA STATE UNIVERSITY	36-000219
SB-01133	NADB-R - 1061133; Voided - 81-6.1A	1981	LERCH, MICHAEL K.	CULTURAL RESOURCES ASSESSMENT OF THE TIPPECANOE AVENUE PROJECT, SAN BERNARDINO, CALIFORNIA	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
SB-01134	NADB-R - 1061134; Voided - 81-6.1B	1981	LERCH, MICHAEL K.	ADDENDUM TO CULTURAL RESOURCES ASSESSMENT OF THE TIPPECANOE AVENUE PROJECT	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
SB-01808	NADB-R - 1061808; Voided - 88-6.5	1988	HAMPSON, R. PAUL, JERREL SORENSEN, SUSAN K. GOLDBERG, MARK T. SWANSON, and JEANNE E. ARNOLD	CULTURAL RESOURCES SURVEY, UPPER SANTA ANA RIVER, CALIFORNIA	GREENWOOD & ASSOCIATES AND INFOTEC	36-000144, 36-001577, 36-006060, 36-006061, 36-006062, 36-006063, 36-006064, 36-006065, 36-006066, 36-006067, 36-006068, 36-006069, 36-006070, 36-006071, 36-006072, 36-006073, 36-006074, 36-006075, 36-006076, 36-006077, 36-006078, 36-006079, 36-006080, 36-006081, 36-006082, 36-006083, 36-006084, 36-006085, 36-006086, 36-006087, 36-006088, 36-006089, 36-006090, 36-006091, 36-006092, 36-006093, 36-006094, 36-006095, 36-006096, 36-006097, 36-006098, 36-006099, 36-006100, 36-006101, 36-006102, 36-006103, 36-060194, 36-060195, 36-060196, 36-060252
SB-02260	NADB-R - 1062260; Voided - 91-2.10	1991	CARMICHAEL, DAVID	DOCUMENTARY RESEARCH AND FIELD RECONNAISSANCE RELATING TO CULTURAL RESOURCES AT NORTON AIR FORCE BASE, CALIFORNIA	NORTON AIR FORCE BASE	36-006096
SB-02784	NADB-R - 1062784	1991	HALLARAN, KEVIN B. and CHRISTOPHER FOORD	THE GAGE CANAL (DRAFT COPY OF 2 CHAPTERS OF UNKNOWN PUBLICATION)		36-007168
SB-03009	NADB-R - 1063009	1994	LUKKARILA, DAVE WALTER	THE SUMMER OF 1861: ESTABLISHING A MILITARY CAMP IN SAN BERNARDINO AT THE CIVIL WAR'S BEGINNING; A REVIEW OF THE OFFICIAL WAR RECORDS	M.A., CA STATE UNIVERSITY, FULLERTON	
SB-03228	NADB-R - 1063228	1995	LERCH, MICHAEL K.	HISTORIC PROPERTY SURVEY REPORT: ORANGE SHOW ROAD EXTENSION, CITY OF SAN BERNARDINO, CA. 100PP	TOM DODSON & ASSOCIATES	36-006103, 36-007168, 36-017813

Report List

KIM2213

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-03286	NADB-R - 1063286	1998	LOVE, BRUCE and BAI TOM TANG	HISTORIC SIGNIFICANCE EVALUATION OF BUILDINGS SCHEDULED FOR DEMOLITION DURING PHASE I OF MAYOR'S DEMOLITION INITIATIVE, CITY OF SAN BERNARDINO, CA. 16PP	CRM TECH	
SB-06331	NADB-R - 1066331	2009	Cannon, Amanda and Michael K. Lerch	Cultural Resources Assessment of the Riverside-Corona Realignment, San Bernardino and Riverside Counties, California.		

Resource List

KIM2213

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-36-006103	CA-SBR-006103H	Other - C-23; Resource Name - Atchison Topeka and Santa Fe Railroad Bridge	Structure	Historic	AH07; AH15	1987 (Greenwood & Associates)	SB-01808, SB-03228
P-36-006847	CA-SBR-006847H	Resource Name - Old Kite Route; Other - ATS&F Railroad; Other - SBRR-1; Other - Highlands Division of the ATS&F; Other - R-FEL/L #1; Resource Name - ATS&F/BNSF; Other - R-FEH/L #1; Other - PSBR-25H; Other - R-FEH/L #1; Other - R-FEH #9	Structure, Site	Historic	AH07; HP11; HP18; HP19	1990 (Romani, Gwen, Greenwood and Associates); 1990 (G. Romani et al, Greenwood & Associates); 1995 (F. Smith, Myra Frank & Associates); 1997 (B. Tang, CRM Tech); 1998 (M. Horne et al, Applied Earthworks); 2000 (M. Robinson, Applied Earthworks); 2008 (C. Harper, SWCA); 2010 (C. Tibbett, LSA); 2010 (E. Potter, ASM Affiliates); 2014 (M. DeCarlo & D. Mengers, ASM); 2016	SB-02796, SB-02853, SB-02917, SB-02918, SB-03287, SB-03392, SB-03575, SB-03591, SB-03746, SB-04337, SB-05971, SB-07260, SB-07451, SB-07528, SB-07955, SB-07963, SB-07964, SB-08097, SB-08130
P-36-007168	CA-SBR-007168H	Resource Name - Gage Canal; Other - MFA-1H; Other - ADOE-36-95-001-00	Structure, Site	Historic	AH06; HP20	1992 (Wlodarski); 1995; 2003; 2008; 2017 (Roberta Thomas, Applied EarthWorks, Inc)	SB-02784, SB-02889, SB-03228, SB-03605, SB-06291, SB-07955, SB-07963
P-36-017813		Resource Name - Marshall Residence; OHP Property Number - 097616	Building	Historic	HP02	1994 (Wayne Donaldson, FAIA)	SB-03228
P-36-029448	CA-SBR-029448H	Resource Name - Waterman-1	Site	Historic	AH04	2015 (S. Andrews, ASM)	

APPENDIX B

DEPARTMENT OF PARK AND RECREATION 523 FORMS

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 652 E. Orange Show Road

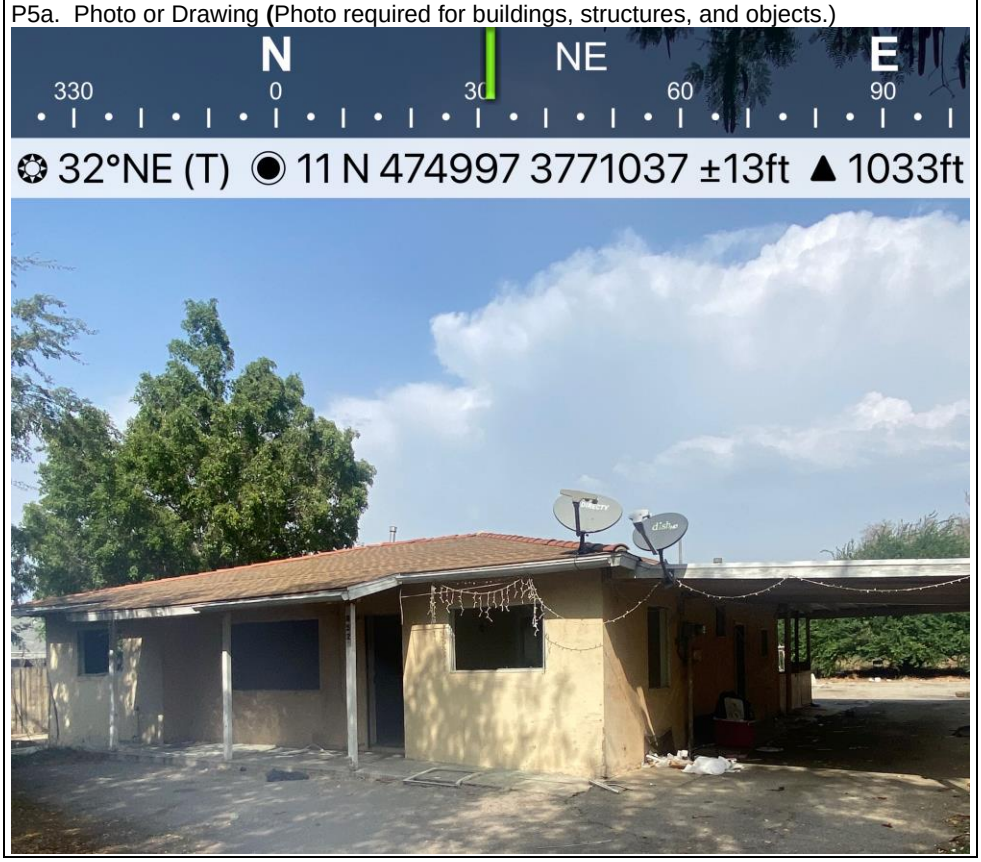
P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM
c. Address: 652 E. Orange Show Road City: San Bernardino Zip: 92408
d. UTM: Zone: N/A mE/ Elevation: 1033' AMSL
e. Other Locational Data: The subject property is located on the north side of Orange Show Road, east of Lena Road.

***P3a. Description:** The subject property is occupied by a 1,222 square foot single-family residence. The Post-War Minimal style residence features wood frame construction, and a single-story floor plan and was built in 1957. It is fronted by a small yard. It contains a hipped, composite roof which is not original, and corrugated roofing to the east used as a carport. The property is enclosed by a tall wooden fence on the west, a chain link fence to the east and a metal gate on the south. The windows and doors have been removed.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District
☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View North)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1957 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300, Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/22

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Alliance GWS Building 9 Project, San Bernardino, San Bernardino County, California.* On File at BCR Consulting LLC.

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

 ***NRHP Status Code**: 6Z ***Resource Name or #** (Assigned by recorder) 652 E. Orange Show Road

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): Residence was built in 1957. The roof has been replaced and the doors and windows have been removed at unknown dates.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

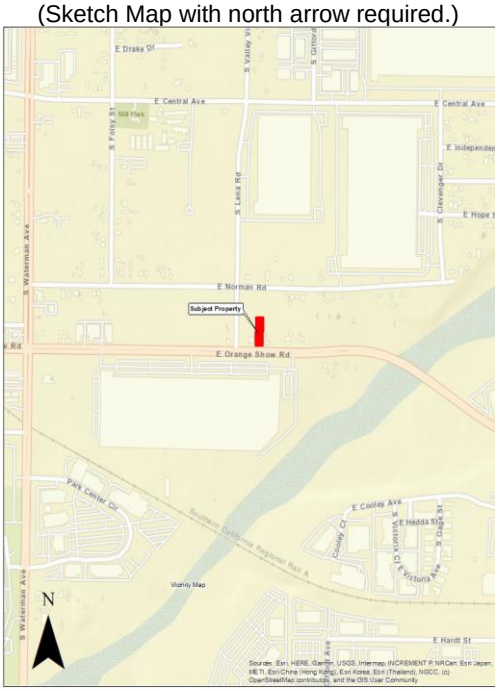
Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A

***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
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U.S. Public Records Index 1995. Electronic Document. Ancestry.com. Accessed 08/22/22.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, George Brentner, Doug Kazmier BCR Consulting, Claremont, California
***Date of Evaluation** 12/13/2022

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Preston and Jessie Hickambottom were the first recorded property owners, they owned the subject property from an unknown date until selling to Emmett and Frances Polee on April 19, 1985. The property was owned by the Polee Trust until John and Silvia Duran acquired it in 1994. The Durans sold to DHA Opportunity I LP in 2011, who sold it to Gateway South 9 Development LLC in 2022 (San Bernardino County Property Information Management System 2022; SBCS 26 November 1950, 7 August 1960, 19 November 1961, 31 December 1967, 6 April 1968, 22 August 1969, 22 September 1977, 10 May 1984; U.S. Federal Census 1950, U.S. Grave Index 1987, 1990, U.S. Public Records Index 1995).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and do not display significant elements of the era during which they were constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency **Primary #**
DEPARTMENT OF PARKS AND RECREATION **HRI #**

PRIMARY RECORD

Trinomial
NRHP Status Code 6Z

Other Listings
Review Code **Reviewer** **Date**

 *__Resource Name or #:__ 668 E. Orange Show Road

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 668 E. Orange Show Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 1035' AMSL

e. Other Locational Data: The subject property is located on the north side of Orange Show Road, east of Lena Road.

***P3a. Description:** The subject property is occupied by an 804 square foot single-family residential home. The Post-War Minimal style residence features wood frame construction, and a single-story floor plan and was built in 1955. It is fronted by a small yard, concrete walkway, and trees. It features a cross-hipped roof, and stucco siding on the outer walls. The property is enclosed by a short chain-link fence to the west, a tall chain link fence to the east and a metal gate to the south. The roofing was replaced with composite shingles in 2001.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Residence Overview (View South)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1955(see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Fernando & Ana Hernandez
668 E Orange Show Road,
San Bernardino, CA 92408

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:**
10/12/22

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

 ***NRHP Status Code**: 6Z ***Resource Name or #** (Assigned by recorder) 668 E. Orange Show Road

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): Residence was built in 1955. The roof was replaced in 2001.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

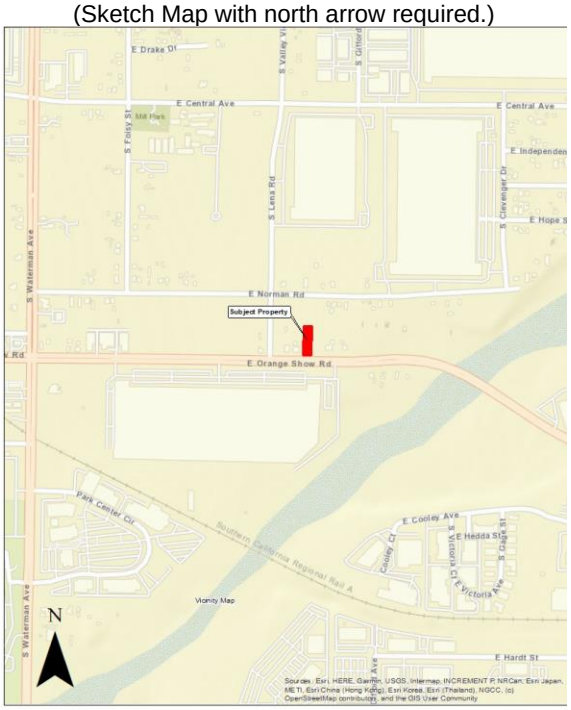
Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A

***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
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San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-172-01." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
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U.S. Public Records Index 2013, 2020. Electronic Document. Ancestry.com. Accessed 08/22/22.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, Doug Kazmier BCR Consulting, Claremont, California
***Date of Evaluation** 12/12/22

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Fernando Esponda and his wife Wendy were the first recorded property owners. They owned the subject property from prior to 1974, until selling to James and Barbara Cunningham in 1976, who sold to Eugene and Margarett Walker later the same year. Eugene died in 1982 and Margarett owned the property until selling to Wendell and Sheila Payton in 1982. The Wendells sold the property to Jeff T.F. Rose in 2008, who sold to Fernando and Ana Hernandez in 2021 (San Bernardino County Property Information Management System 2022; SBCS 13 July 1961, 8 October 1975; U.S. Federal Census 1950, U.S. Grave Index 1982, 2013, U.S. Public Records Index 2013, 2020).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which they were constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency **Primary #**
DEPARTMENT OF PARKS AND RECREATION **HRI #**

PRIMARY RECORD

Trinomial
NRHP Status Code 6Z

Other Listings
Review Code **Reviewer** **Date**

 *__Resource Name or #:__ 684 E. Orange Show Road

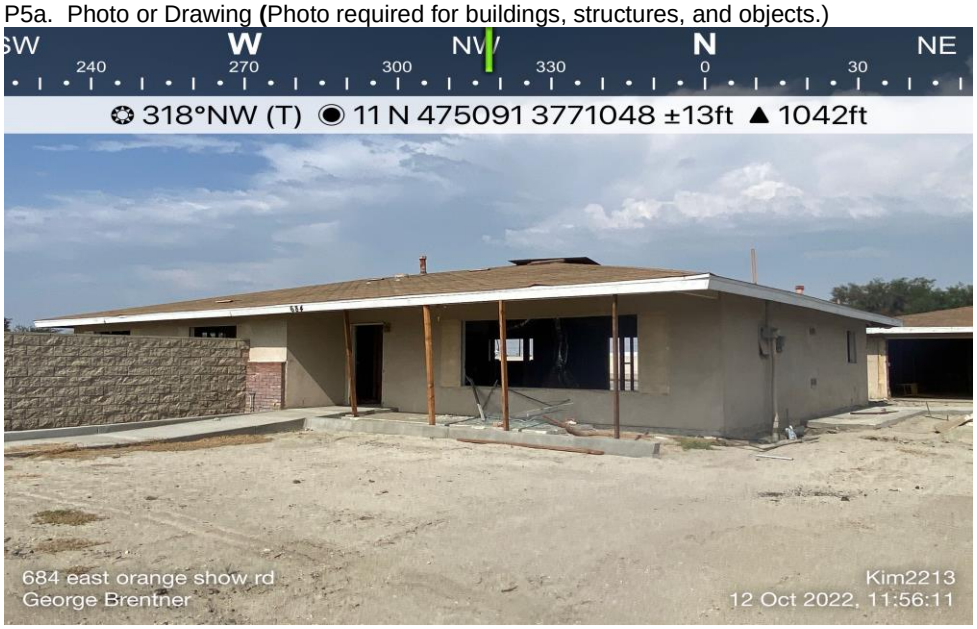
P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM
c. Address: 684 E. Orange Show Road City: San Bernardino Zip: 92408
d. UTM: Zone: N/A mE/ Elevation: 1042' AMSL
e. Other Locational Data: The subject property is located on the north side of Orange Show Road, east of Lena Road.

***P3a. Description:** The subject property contains a 1,850 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the southern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built circa 1967. It is fronted by a small yard and front porch. The residence features a hipped roof with composite shingles, and stucco siding. A concrete masonry unit wall is situated perpendicular to the house and connects to the façade. All doors and windows are missing from the building. To the rear of the residence is a detached garage of the same architectural style and built with the same materials. Both buildings are in poor condition.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View Northwest)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1967(see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300, Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A **B2. Common Name:** N/A
B3. Original Use: Residence **B4. Present Use:** Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built in 1967. Doors and windows are missing, and the composite-shingled roof is not original, but no permit records were available to date modifications. The garage appears to be original and constructed at or near the same time as the residence according to aerial photographs.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

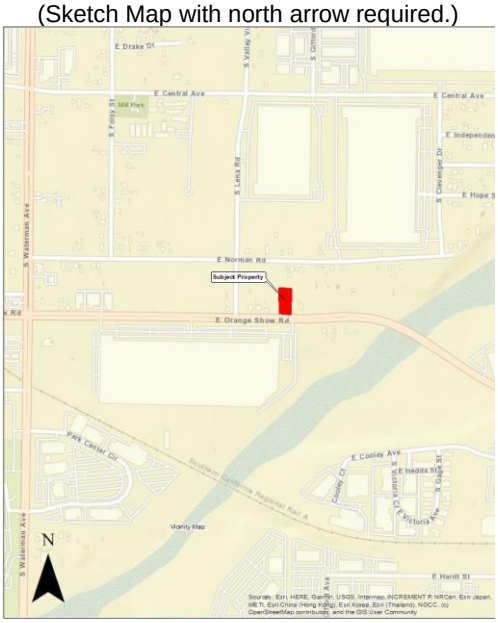
Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A

***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-18." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.
California, U.S., Death Index, 1940-1997 [database on-line]. Ancestry.com. Accessed October 27, 2022.
U.S., Find a Grave Index, 1600s-Current [database on-line]. Ancestry.com. Accessed October 27, 2022.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, Doug Kazmier, BCR Consulting, Claremont, California
***Date of Evaluation** 12/13/22

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Sharon D. and James E. Webb were the first recorded property owners, and lived at the subject property since at prior to 1973. James was a Navy Veteran employed by the San Bernardino Post Office, and Sharon was the Office Manager of the South San Bernardino County Water District. Following James' death in 1990, Sharon married Clarence McZeal. In 2001 They sold the property to Julie and Joseph Caddel. The property was then passed to their son Joseph Jr. in 2009. Subsequent owners include Fernando and Ana Hernandez, and lastly Gateway South 9 Development LLC who is the current owner (San Bernardino County [PIMS] 2022; [SBCS] 26 Feb. 1961, 27 Aug. 1971; California, U.S., Death Index 1940-1997)

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *__Resource Name or #:__ 706 E. Orange Show Road

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***a. County:** San Bernardino

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 706 E. Orange Show Road City: San Bernardino Zip: 92408

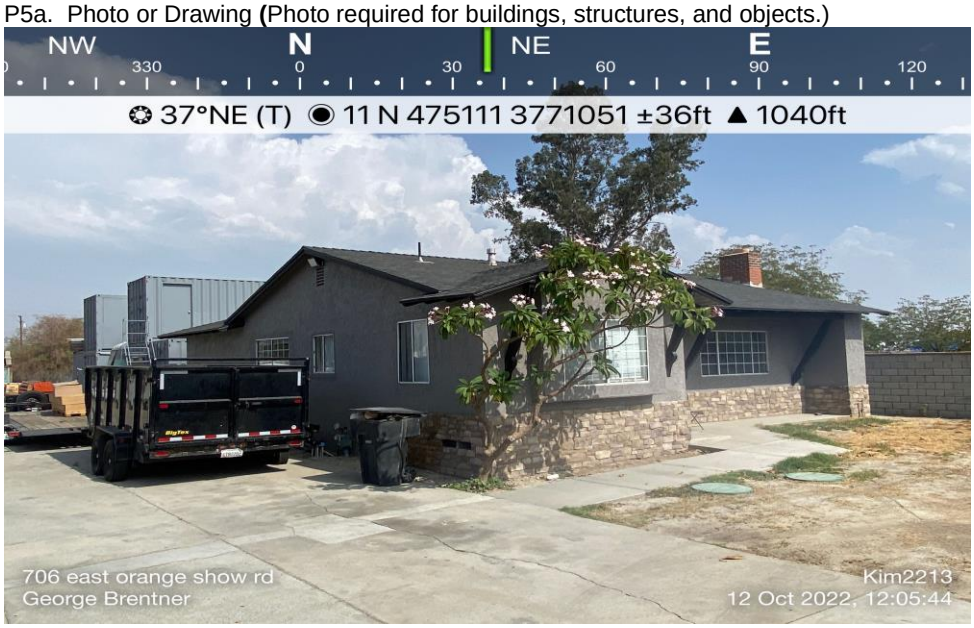
d. UTM: Zone: N/A mE/ Elevation: 1040' AMSL

e. Other Locational Data: The subject property is located on the north side of Orange Show Road, east of S Lena Road.

***P3a. Description:** The subject property is occupied by a 1,285 square-foot single-family residence that is historic in age (i.e. over 45 years old). It is located on the southeastern portion of the subject property. The Post-War Minimal style residence features wood frame construction, and a single-story floor plan and was built in 1956. It is fronted by a small yard and tree on the southwestern corner. It features a cross-gabled roof topped with composite shingles. Alterations include the shingles, vinyl window frames, and stone accents and stucco on the facades.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View Northeast)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1956 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): Residence was built in 1956. The doors, windows, and roofing materials have been recently replaced, as well as stucco and stone accents added to the facades.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

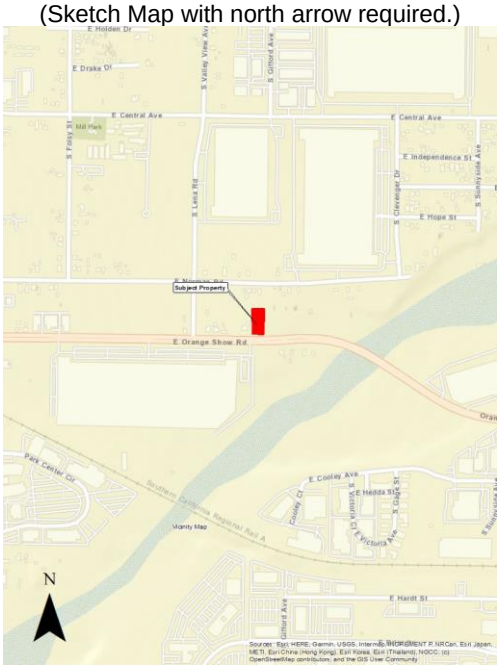
Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A
B11. Additional Resource Attributes N/A

***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-21." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, Doug Kazmier, BCR Consulting, Claremont, California

***Date of Evaluation** 12/12/22

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Following World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Michael G. and Belinda L. Mills were the first recorded property owners, and lived at the subject property in 1980 following the death of their 23-month-old son Michael J. Mills, the year prior. No more information is available regarding the Mills, aside from having sold the property to Josif and Eileen Adams in July of 1980. Subsequent owners included Jerry and Angela Cole, Hunter Savings Assn., Charles and Sharon Carter, Mucio and Maria Lozoya, Lauro Properties LLC, and lastly Gateway South 9 Development LLC who is the current owner ("Property Characteristics and Ownership History for Parcel 0280-192-21.", San Bernardino County 2022; [SBCS] 13 April 1979).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. It does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency **Primary #**
DEPARTMENT OF PARKS AND RECREATION **HRI #**

PRIMARY RECORD

Trinomial
NRHP Status Code 6Z

Other Listings
Review Code **Reviewer** **Date**

 *__Resource Name or #:__ 707 E. Norman Road

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 707 E. Norman Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 1042' AMSL

e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a residential property containing an 896 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the northern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built in 1946. It is fronted by a small enclosed porch structure and a small yard that has been covered with paving tiles. It features a front-gabled roof and stucco outer walls. Vinyl windows have since been added and the building is topped by composite roofing materials. The roof's eaves which provide moderate overhang are in poor condition.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District
☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View South)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1946 (see page 2)
☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2021

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built in 1946. The doors and windows are not original, but no permit records were available to date alterations.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A
History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

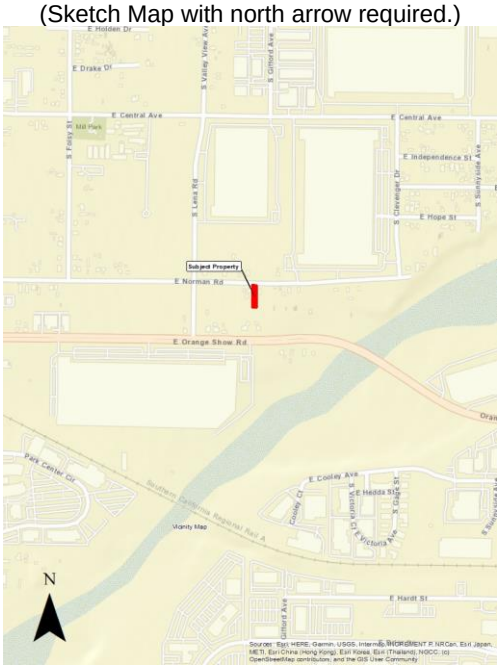
Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-20." Online Database. Accessed October 25, 2022.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

***B14. Evaluators:** David Brunzell, Doug Kazmier, BCR Consulting, Claremont, California
***Date of Evaluation** 12/13/22

(Sketch Map with north arrow required.)



B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Following World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Ernest Green was the first recorded property owner and lived at the subject property since at least 1971. Ernest was a Deacon at the Carter Church of God in Christ in San Bernardino. Following Green's death in 1984, the property passed to the possession of his children: Herman and Herbert Green, and Dorothy McMillen. Subsequent owners include Gary Miller, Felipe and Judith Donis, and Gateway South 9 Development LLC, which is the current owner (San Bernardino County [PIMS] 2022; [SBCS] 17 May 1984).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. It does not significantly represent the work of an important creative individual or possess high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency	**Primary #**
DEPARTMENT OF PARKS AND RECREATION	**HRI #**
PRIMARY RECORD	**Trinomial**
	NRHP Status Code 6Z
Other Listings	
Review Code	**Reviewer** **Date**

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 715 E. Norman Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 1042' AMSL

e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a residential property containing a 973 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the northern portion of the subject property. The building displays elements of the Craftsman style, but since its construction has been modified beyond recognition. It features wood frame construction, and a single-story floor plan and was built in 1922. It is fronted by a small yard with small trees obstructing much of the front façade from view. It features a front-gabled roof with composite shingles, a small covered front porch, and stucco siding. The building is in poor condition; the windows and doors are missing. The rear of the house features an unpermitted addition which is visible from aerial photographs beginning in 2002, also in poor condition.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District
☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View South)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1922 (see page 2)
☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2021

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

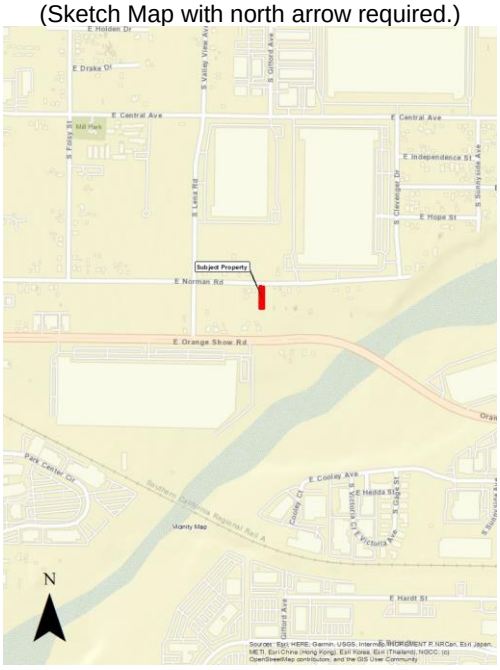
B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Craftsman
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was originally constructed in 1922, and an unpermitted addition was added to the rear prior to 2002. Stucco siding and composition shingles were added at an unknown date.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** 1920s Community Development **Area:** San Bernardino **Applicable Criteria:** N/A
History
San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972: 230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Period of Significance: 1920s **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**
Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-19." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/11/22

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Following World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Ernest Green was the first recorded property owner, with no date available for reference of acquisition. Ernest Green was a Deacon at the Carter Church of God in Christ in San Bernardino. Following Green's death in 1984, the property passed to the possession of his son Herman Green. Subsequent owners include Gary L. Miller, Jovita Morga, and Gateway South 9 Development LLC, which is the current owner (San Bernardino County [PIMS] 2022; [SBCS] 17 May 1984).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. It does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position it retains integrity of location. It is not currently used as a residence, diminishing integrity of setting and association. A lack of maintenance has diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency **Primary #**
DEPARTMENT OF PARKS AND RECREATION **HRI #**

PRIMARY RECORD

Trinomial
NRHP Status Code 6Z

Other Listings
Review Code **Reviewer** **Date**

 *__Resource Name or #:__ 787 E. Norman Road

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM
c. Address: 787 E. Norman Road City: San Bernardino Zip: 92408
d. UTM: Zone: N/A mE/ Elevation: 924' AMSL
e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a residential property containing a 1,032 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the northeastern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built circa 1944. While construction was completed before the end of World War II the architectural characteristics fit with this style. The residence is fronted by a small yard and flanked by trees to the east and west. It contains a front-gabled roof and small front porch, and stucco on the outer walls which is not original. The roofing materials are composite, and the windows have all been replaced.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: North Elevation Overview (View South)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1944(see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): This residence was constructed circa 1944. The windows were replaced and the siding was covered with stucco at an unknown date.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-07." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

***B14. Evaluators:** David Brunzell, Doug Kazmier, BCR Consulting, Claremont, California
***Date of Evaluation** 12/12/2022

(Sketch Map with north arrow required.)



B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Following World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Ola McDowell was the first recorded property owner and lived at the subject property prior to 1968 until her death in 1989. Ola was the Publicity Chairwoman for the General Mission Society of the St. Mark Baptist Church in San Bernardino. The property was acquired by Dorothy J. Ducksworth in December of 1989. Subsequent owners have included Lawrence J. Prudholme Sr., Denise Ramirez, John A. Torres, Maria T. Mejia Navarro, and finally Gateway South 9 LLC who is the current owner (San Bernardino County [PIMS] 2022; [SBCS] 23 Dec. 1989).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code **Reviewer** **Date**

 *__Resource Name or #:__ 807 E. Norman Road

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 807 E. Norman Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 951' AMSL

e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a residential property occupied by American Tow Group and contains a 662 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the northeastern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, a single-story floor plan and was built circa 1960. It is fronted by a small yard that has been leveled and paved. It features a hipped roof topped with newer composite shingles. The outer walls have been re-surfaced with light-colored stucco, and all windows and the front door have been replaced.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View Southeast)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1960 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 76177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Industrial
***B5. Architectural Style:** Residence 1 Post-War Minimal; Residence 2: Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built in in 1960. The doors and windows have since been replaced, but no permit records were available to date the modifications.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-202-07." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/12/2022

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Following World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Mary J. Cooper was the first recorded property owner and owned the property from 1953 prior to the construction of the residence. Mary was a minister at the Unity Center Church in San Bernardino. Charles R. Hudson was listed as a joint tenant during this time, but no records were available to substantiate their relationship. Ownership passed to Edward G. Lee in 1997, and subsequent owners included Martha G. Wine, Erwin and Sandra Thomas, Dependaple Corporation, Ten Four Corp., Thomas Williams and lastly Gateway South 9 Development LLC, who is the current owner (San Bernardino County 2022 [PIMS]; [SBCS] 28 Aug. 1968, 28 Nov. 1962, 2 Nov. 1963)

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building significantly represents the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency **Primary #**
DEPARTMENT OF PARKS AND RECREATION **HRI #**

PRIMARY RECORD

Trinomial
NRHP Status Code 6Z

Other Listings
Review Code **Reviewer** **Date**

 *__Resource Name or #:__ 867 E. Norman Road

P1. Other Identifier: 861 E. Norman Road

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 867 E. Norman Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 920' AMSL

e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a residential property and contains a 1,040 square foot single-family residence that is historic in age (i.e. over 45 years old). The residence is located on the northwestern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, hipped roof, and a single-story floor plan and was built circa 1952. It has a small front porch, and is fronted by a small yard. The original windows and front door have been replaced. The roof is topped with composite shingles, and the outer walls have been resurfaced with stucco.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) North Elevation Overview (View South)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1952 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 76177

***P8. Recorded by:**
Nick Shepetuk and Fabian Reyes-Martinez
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built in 1952. Doors, windows, and roofing materials have been replaced, but no permit records were available to date the modifications.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A
History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-202-09." Online Database. Accessed October 26, 2022.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/12/22

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Robert and Ninnie McDade were the first recorded property owners, with no date of acquisition available. Robert was a maintenance man for the Harris Company, and along with his wife Ninnie, an active member of the Allen Chapel African Methodist Episcopal Church in San Bernardino. Robert died in 1975 and Ninnie sold the property to Dallas and Wilma J. Evans in 1984. Subsequent owners included John L. Evans, Indian Point Inc., Daniel Cavallo, Alexander M. Bell, and lastly Gateway South 9 Development LLC, who is the current owner (San Bernardino County [PIMS] 2022; [SBCS] 21 July 1963, 9 Oct. 1975).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building are therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 24551 E. Norman Road

P1. Other Identifier: 755 East Norman Road

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 24551 E. Norman Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 1030' AMSL

e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a single-family residence that is historic in age (i.e. over 45 years old). Residence 1 is located on the northwestern portion of the subject property. The Post-War Minimal-style residence features wood frame construction, and a single-story floor plan and was built in 1956. It is fronted by a small lawn with ornamental trees enclosed within a wrought iron fence. It contains a front-gabled roof and small front porch with composition roofing. The building is in good condition. The original windows and doors have been replaced.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Residence 1 Overview (View SE)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1956 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 96177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:**
10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built in 1956. The roof, doors, and windows have been recently replaced.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-06." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/12/2022

(Sketch Map with north arrow required.)



B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. The subject residence was constructed in 1956 by unknown builders. The earliest documented residents were Freddie C. and Jessie Mae Williams in 1967 (SBCS 18 January 1967). Calvin and Robena Wesson owned the property from prior to 1975 until 1978. Jessie, John, and Consuella Pollard owned the property from 1978 until 1983. Francisco and Aurora Gonzales owned the property from 1983 until 2022, by which time Gateway South 9 Development LLC acquired the property. Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *__Resource Name or #:__ 695 E. Norman Road

P1. Other Identifier: 685 E. Norman Road, 685 ½ E. Norman Road

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 695 E. Norman Road City: San Bernardino Zip: 92408

d. UTM: Zone: N/A mE/ Elevation: 930' AMSL

e. Other Locational Data: The subject property is located on the south side of Norman Road, east of Lena Road.

***P3a. Description:** The subject property is a residential property and contains three single-family residences that are historic in age (i.e. over 45 years old). Residence 1 is located on the northeastern portion of the subject property and is 1,062 square feet. The residence features wood frame construction, and a single-story floor plan and was built circa 1922. The house was constructed in the era of "Modern Houses", but changes make it difficult to connect with a particular architectural style (McAlester 2017). It exhibits elements of Minimal Traditional-style architecture although it pre-dates that style. It is fronted by a small yard and features a hipped roof with composite shingles and small front porch. Residence 2 is located to the west of residence 1 and is 753 square feet. The Post-War Minimal-Style residence exhibits wood frame construction, a front-gabled roof with composite shingles, and stucco siding. Residence 3 is 572 square feet, and is located to the southwest of residence 1 and exhibits wood frame construction, a front-gabled roof with composite shingles, and stucco siding. The doors and windows on all buildings have been replaced, but no permit records were available for these modifications, or the construction of residences 2 and 3. The original siding on residence 1 has been covered in stucco.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Residence 1: N/W Elevations Overview. Residence 2: Partial North Elevation (View South)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1922(see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 96177

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

 ***NRHP Status Code**: 6Z ***Resource Name or #** (Assigned by recorder) 695 E. Norman Road

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Residence 1: None Discernible Due to Alterations; Residence 2: Post-War Minimal 3: Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): Residence 1 was built in 1922, and residences 2 and 3 were built in 1942. The doors, windows, and roofing materials have been replaced, but no permit records were available to date the modifications.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.
General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.
McAlester, Virginia Savage. *A Field Guide to American Houses.* Alfred A. Knopf. New York.
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-192-02." Online Database. Accessed Multiple Dates.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

(Sketch Map with north arrow required.)



***B14. Evaluators:** David Brunzell, Doug Kazmier, BCR Consulting, Claremont, California
***Date of Evaluation** 10/28/22

B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. Estelle F. Shaw and Erma N. Massey were the first recorded property owners and lived at the subject property since at least 1956. Estelle was the Assistant Secretary of the Unity Women's Club of San Bernardino, and Erma was a leader for the Mill School group of Campfire Girls. The property was sold to Erma N. Gladden in 1994, and Jo Ann Curtis in 1996. Subsequent owners included Melvin Morphew, Refugio, Erick, and Euleteria Perez, Rita and Oscar Patino, Monica Gutierrez Patino, Maria Guadalupe, Patino Gutierrez, and lastly Gateway South 9 Development LLC who is the current owner (San Bernardino County [PIMS] 2022; [SBCS] 21 Jan. 1951, 1 March 1956).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: All three residences lack architectural distinction and do not display significant elements of the era during which they were constructed. None of the buildings significantly represents the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age buildings are therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the buildings remain in their original positions and are still in use as a residences, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.


Residence 2 Overview

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 24432 Pioneer Road

P1. Other Identifier: 646 East Orange Show Road

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** San Bernardino South **Date:** 1980 **T**1S; **R**4W; Non-sectioned**;** SBBM

c. Address: 24432 Pioneer Road City: San Bernardino Zip: 92408

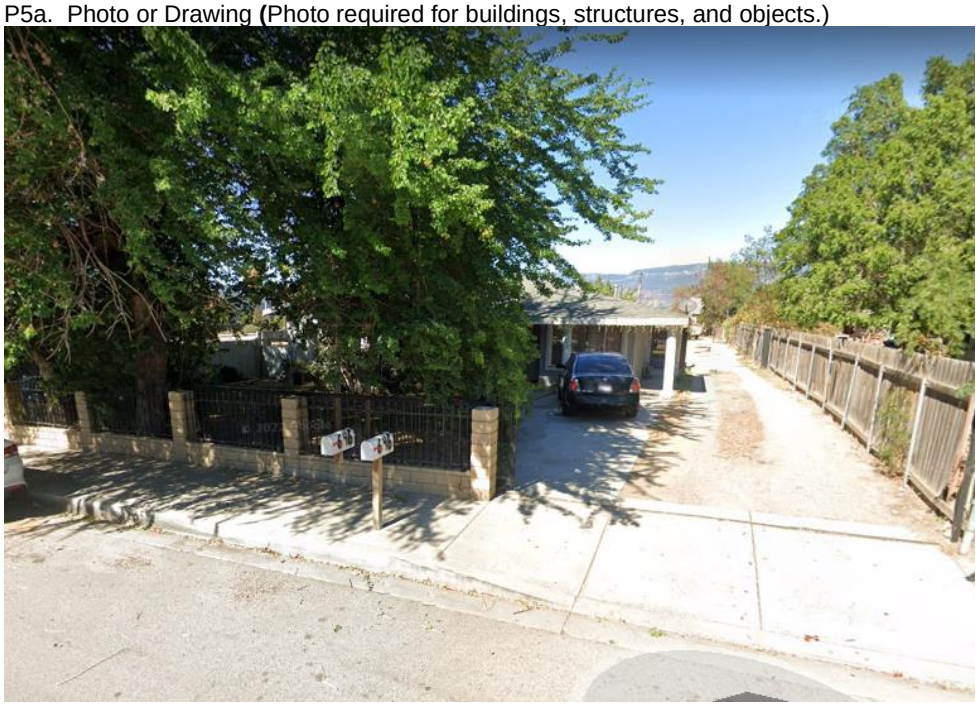
d. UTM: Zone: N/A mE/ Elevation: 1020' AMSL

e. Other Locational Data: The subject property is located on the northeast corner of Orange Show Road and Lena Road. Confusingly, the San Bernardino County Assessor and Parcel Quest list this residence as 24432 Pioneer Avenue in Redlands, although mapping for both resources depict it at the northeast corner of Orange Show Road and Lena Road. Mailboxes in front of the residence indicate 646 East Orange Show Road.

***P3a. Description:** The subject property contains a single-family residence that is historic in age (i.e. over 45 years old). A large porch addition and tree obscure much of the main façade, but the layout is consistent with a Post-War Minimal architectural style. It features wood frame construction, and a single-story floor plan and was built in 1959. It contains a front-gabled roof (which appears to be part of the porch addition) and composition shingles. The original windows have been replaced with vinyl windows. The building is in good condition.

***P3b. Resource Attributes:** HP3. Single Family Residence

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence 1 Overview (View North)

***P6. Date Constructed/ Age and Sources:** ☑Historic 1959 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
Gateway South 9 Development LLC
9800 Hillwood Pkwy #300 Fort Worth, TX 96177

***P8. Recorded by:**
BCR Consulting LLC
Claremont, California 91711

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/12/2022

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Gateway 9 Project, San Bernardino, San Bernardino County, California.*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

 ***NRHP Status Code**: 6Z ***Resource Name or #** (Assigned by recorder) 24432 Pioneer Road

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Residence
***B5. Architectural Style:** Post-War Minimal

***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built in 1959. A large porch addition was added at an unknown date. Doors and windows have been recently replaced.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

San Bernardino. The project site is located within the boundaries of the historic Rancho San Bernardino, a mission rancho originally associated with the nearby Spanish Asistencia. Rancho San Bernardino became the property of the Lugo family and Diego Sepulveda in 1842 as part of the secularization process, securing Mexico's local hegemony after official independence from Spain. When the United States annexed California after the Mexican-American War, the Lugo family and Diego Sepulveda received the official U.S. land patent for the property, via a claim filed under the authority of Congress (General Land Office 1865; U.S. Congress 1851). Brigham Young's Mormon scouts subsequently bought Rancho San Bernardino from the Lugos and Sepulveda and erected a sawmill and irrigation system, splitting the land into a system of ranches and farms. The resulting economy soon necessitated a stage stop, and by 1855 the freight-hauling enterprise of Banning & Alexander was running a brisk service between San Bernardino and Los Angeles (Lavender 1972:230-231).

Although large tracts owned by the U.S. Government became available for homesteading during the 1860s, various pressures forced local Mormon pioneers to recede to Salt Lake City during this period. In the wake of the Mormon exodus, other settlers began to take advantage of new homestead opportunities. Agriculture (particularly citrus orchards) was central to the region's success, and by the early 20th century the City of San Bernardino's downtown took shape as the hub of economic activity. [Continued on page 3]

Theme: Mid-Century Community Development **Area:** San Bernardino
Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

Donaldson, Milford Wayne AIA, Inc.1991. *Historic Resources Reconnaissance Survey, San Bernardino.* On File at the City of San Bernardino Planning Department.

General Land Office 1865. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates

Lavender, David. 1972. *California Land of New Beginnings.* Harper and Row, Publishers. New York.

Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.

San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 0280-172-19." Online Database. Accessed December 12, 2022.

San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.

United States Congress. 1851. *An Act to Ascertain and Settle Private Land Claims in the State of California.* Records on File at the Bancroft Library; Land Case Files 1852-1892.

***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/12/21

(Sketch Map with north arrow required.)



B10. Significance [Continued from page 2]:
Spanish Colonial-style civic and commercial buildings predominated San Bernardino construction projects between the 1920s to the 1940s. While similar popular architectural styles were reflected in some residential neighborhoods, the gradual development of forms more typical of the California working class population became common (Donaldson 1991). These included 1920s Craftsman and Spanish Colonial Revival style bungalows, and the simple Minimal Traditional Style during the 1930s (ibid.). Subsequent to World War II, southern California experienced an unprecedented land boom resulting from the local discharge of former military personnel. The railroad, U.S. Air Force (both civilian and military), and Kaiser Steel initially remained strong, and a revitalized construction industry formed due to new commercial, residential, and infrastructure developments. Although San Bernardino initially prospered during the post-war years, the eventual closures of Norton Air Force Base and Kaiser Steel in addition to the relocation of many railroad jobs punctuated a general economic downturn for San Bernardino's working class that has persisted since the 1980s (Osbourne 1996).

Valley Truck Farms Community. The subject property is located in the vicinity of the historic Valley Truck Farms community. In the 1920s, a population boom in Los Angeles led to growth in surrounding areas. Many Los Angeles residents moved away from the growing city seeking a more rural environment, including a group of African-American families from the Los Angeles Basin who settled in the area that would become Valley Truck Farms. The land partially includes the project site and was occupied by a handful of widely spaced ranches located southeast of the San Bernardino corporate boundaries of the day. Valley Truck Farms was bounded roughly by Mill Street to the North, Tippecanoe Avenue to the east, Washington Avenue to the west, and Dumas Street to the south. The Capital Company bought the land in 1926 and subdivided it into 1-acre parcels. Within a decade, the neighborhood developed into a community that was home to around 50 or 60 families and eventually joined the City of San Bernardino (San Bernardino County Sun [SBCS], 19 July 2010).

Property History. The earliest recorded owner was Marjorie Bruce, who owned the property from 1977 until 1988 after which Emmett and Frances B Polee acquired it. The Polees sold the property to Espiridion Gonzalez in 2000 and Mr. Gonzalez sold the property to Gateway South 9 Development LLC in 2022 (San Bernardino County 2022). Research has shown that the individual owners and residents were ordinary working people that did not contribute significantly to U.S., California, or local history.

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The subject property lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possesses high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.


Residence Overview (View NE)

APPENDIX C

NAHC SACRED LANDS FILE SEARCH

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

June 23, 2022

David Brunzell
BCR Consulting, LLC

Via Email to: bcrllc2008@gmail.com

Re: Hillwood Building 9 (KIM2213) Project, San Bernardino County

Dear Mr. Brunzell:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information submitted for the above referenced project. The results were positive. Please contact the San Manuel Band of Mission Indians on the attached list for information. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. A SLF search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with a project's geographic area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites, such as the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center for the presence of recorded archaeological sites.

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. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information.

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

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Bernardino County
6/23/2022

Agua Caliente Band of Cahuilla Indians
Reid Milanovich, Chairperson
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6800
Fax: (760) 699-6919
laviles@aguacaliente.net

Agua Caliente Band of Cahuilla Indians
Patricia Garcia-Plotkin, Director
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6907
Fax: (760) 699-6924
ACBCI-THPO@aguacaliente.net

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 — Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 — Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 — Gabrielino
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490 — Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

Gabrielino Tongva Indians of California Tribal Council
Christina Conley, Tribal Consultant and Administrator
P.O. Box 941078 — Gabrielino
Simi Valley, CA, 93094
Phone: (626) 407 - 8761
christina.marsden@alumni.usc.edu

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street — Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

Morongo Band of Mission Indians
Ann Brierty, THPO
12700 Pumarra Road — Cahuilla, Serrano
Banning, CA, 92220
Phone: (951) 755 - 5259
Fax: (951) 572-6004
abrierty@morongo-nsn.gov

Morongo Band of Mission Indians
Robert Martin, Chairperson
12700 Pumarra Road — Cahuilla, Serrano
Banning, CA, 92220
Phone: (951) 755 - 5110
Fax: (951) 755-5177
abrierty@morongo-nsn.gov

Quechan Tribe of the Fort Yuma Reservation
Jill McCormick, Historic Preservation Officer
P.O. Box 1899 — Quechan
Yuma, AZ, 85366
Phone: (760) 572 - 2423
historicpreservation@quechantribe.com

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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Hillwood Building 9 (KIM2213) Project, San Bernardino County.

Native American Heritage Commission
Native American Contact List
San Bernardino County
6/23/2022

Quechan Tribe of the Fort Yuma Reservation
Manfred Scott, Acting Chairman
Kw'ts'an Cultural Committee
P.O. Box 1899 — Quechan
Yuma, AZ, 85366
Phone: (928) 750 - 2516
scottmanfred@yahoo.com

San Manuel Band of Mission Indians
Jessica Mauck, Director of Cultural Resources
26569 Community Center Drive — Serrano
Highland, CA, 92346
Phone: (909) 864 - 8933
Jessica.Mauck@sanmanuel-nsn.gov

Santa Rosa Band of Cahuilla Indians
Lovina Redner, Tribal Chair
P.O. Box 391820 — Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
lsaul@santarosa-nsn.gov

Serrano Nation of Mission Indians
Mark Cochrane, Co-Chairperson
P. O. Box 343 — Serrano
Patton, CA, 92369
Phone: (909) 528 - 9032
serranonation1@gmail.com

Serrano Nation of Mission Indians
Wayne Walker, Co-Chairperson
P. O. Box 343 — Serrano
Patton, CA, 92369
Phone: (253) 370 - 0167
serranonation1@gmail.com

Soboba Band of Luiseno Indians
Isaiah Vivanco, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Hillwood Building 9 (KIM2213) Project, San Bernardino County.

APPENDIX D

PALEONTOLOGICAL OVERVIEW

WESTERN SCIENCE CENTER

June 21, 2022

BCR Consulting, LLC
Joseph Orozco
505 W. 8th St.
Claremont, CA 91711

Dear Mr. Orozco,

This letter presents the results of a record search conducted for the Hillwood Building 9 Project located in the City of San Bernardino, San Bernardino County, CA. The project site is located north of E. Orange Show Road, south of E. Norman Road, and east of Lena Road in Township 1 South, Range 4 West, in a unsectioned portion of the *San Bernardino South, CA* USGS 7.5 minute quadrangle.

The geologic units underlying the project area is mapped as Holocene alluvial fan deposits of gravel and sand (Dibblee and Minch, 2004). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.

While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

If you have any questions, or would like further information, please feel free to contact me at bstoneburg@westerncentermuseum.org.

Sincerely,

Brittney Elizabeth Stoneburg
Collections Technician

Appendix E:

Energy Assessment

Kimley»Horn

MEMORANDUM

To: Miles Eaton, Kimley-Horn and Associates

From: Olivia Chan, Kimley-Horn and Associates

Date: December 16, 2022

Subject: Gateway South 9 Warehouse – Energy Assessment

1.0 Purpose

The purpose of this technical memorandum is to evaluate potential short- and long-term energy consumption impacts of the Gateway South 9 Warehouse Project (Project) and determine the level of impact the Project would have on the environment.

2.0 Project Location and Setting

The Project site is located in the City of San Bernardino, San Bernardino County (County), California. The Project site is located at the southeast corner of the intersection of Lena Road and Norman Road and is bounded to the north by Norman Road, to the east by existing industrial use, to the south by Orange Show Road, and to the west by Lena Road. The Project site is presently developed with vehicle maintenance and storage yards.

3.0 Project Description

The Project consists of the development of a 397,400 square foot high-cube transload and short-term warehouse building. Construction is expected to begin in June 2023 and complete in June 2024.

4.0 Energy Conservation

In 1975, largely in response to the oil crisis of the 1970s, the California State Legislature adopted Assembly Bill 1575 (AB 1575), which created the California Energy Commission (CEC). The statutory mission of the CEC is to forecast future energy needs, license thermal power plants of 50 megawatts or larger, develop energy technologies and renewable energy resources, plan for and direct state responses to energy emergencies, and, perhaps most importantly, promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code Section 21100(b)(3) to require Environmental Impact Reports (EIRs) to consider the wasteful, inefficient, and unnecessary consumption of energy caused by a project.

Thereafter, the State Resources Agency created Appendix F, *Energy Conservation*, in the California Environmental Quality Act Guidelines (CEQA Guidelines). CEQA Guidelines Appendix F is an advisory document that assists EIR preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy.

In addition, the California Natural Resources Agency finalized updates to the CEQA Guidelines in December 2018. CEQA Guidelines Section 15126.2(b) treats "wasteful, inefficient, or unnecessary" energy consumption as a significant environmental impact. As a result, energy thresholds have been incorporated into Appendix G of the CEQA Guidelines. This technical memorandum has been prepared to assess energy impacts in accordance with Appendix G of the CEQA Guidelines.

Environmental Setting

Energy consumption is analyzed in this technical memorandum due to the potential direct and indirect environmental impacts associated with the Project. Such impacts include the depletion of nonrenewable resources and emissions of pollutants during both construction and long-term operational phases.

Electricity Service

Southern California Edison (SCE) provides electrical services to the City of San Bernardino (City) through State-regulated public utility contracts. Over the past 15 years, electricity generation in California has undergone a transition. Historically, California has relied heavily on oil- and gas-fired plants to generate electricity. Spurred by regulatory measures and tax incentives, California's electrical system has become more reliant on renewable energy sources; including cogeneration, wind energy, solar energy, geothermal energy, biomass conversion, transformation plants, and small hydroelectric plants. Unlike petroleum production, electricity generation is not usually tied to the location of the fuel source and can be delivered great distances via the electrical grid. The generating capacity of a unit of electricity is expressed in megawatts (MW). Net generation refers to the gross amount of energy produced by a unit, minus the amount of energy the unit consumes. Generation is typically measured in megawatt-hours (MWh), kilowatt-hours (kWh), or gigawatt-hours (GWh).

Energy Usage

Energy usage is typically quantified using the British Thermal Unit (BTU). Total energy usage in California was 6,922.8 trillion BTUs in 2020 (the most recent year for which this specific data is

available).[1] Of California's total energy usage, the breakdown by sector is 34.0 percent transportation, 24.6 percent industrial, 19.6 percent commercial, and 21.8 percent residential.[2] Electricity and natural gas in California are generally consumed by stationary users such as residences, commercial, and industrial facilities, whereas petroleum consumption is generally accounted for by transportation-related energy use. In 2021, taxable gasoline sales (including aviation gasoline) in California accounted for 13,060,407,775 gallons of gasoline.[3]

The electricity consumption attributable to the County from 2010 to 2020 is shown in Table 1: Electricity Consumption in San Bernardino County 2010-2020. As indicated in Table 1, energy consumption in the County increased steadily between 2010 and 2020 with a slight decrease in 2019.

Table 1: Electricity Consumption in San Bernardino County 2010-2020

Year	Electricity Consumption (in millions of kilowatt hours)
2010	13,481
2011	13,730
2012	14,348
2013	14,374
2014	14,731
2015	14,731
2016	14,946
2017	15,282
2018	15,376
2019	15,316
2020	15,969

Source: California Energy Commission, *Electricity Consumption by County*, http://www.ecdms.energy.ca.gov/, accessed December 13, 2022.

Automotive fuel consumption in the County from 2011 to 2021 is shown in Table 2: Automotive Fuel Consumption in San Bernardino County 2011-2021. As shown in Table 2, on-road automotive fuel consumption in the County relatively decreased from 2011 to 2013 and increased from 2013 to 2019. Gasoline fuel consumption decreased in 2020 and increased in 2021. Heavy-duty vehicle fuel consumption decreased from 2011 to 2012 and increased from 2013 to 2021 with a slight decrease in 2018.

1 U.S. Energy Information Administration, *Table F33: Total energy consumption, price, and expenditure estimates, 2020,* https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_te.html&sid=CA, accessed December 13,2022.

2 U.S. Energy Information Administration, *California State Profile and Energy Estimates*, *California Energy Consumption by End-Use Sector, 2020*, https://www.eia.gov/state/?sid=CA#tabs-2, accessed August 26, 2022.

3 California Department of Tax and Fee Administration, *January 2022 – Motor Vehicle Fuel 10 Year Reports*, https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm, accessed December 13, 2022.

Table 2: Automotive Fuel Consumption in San Bernardino County 2011-2021		
Year	On-Road Automotive Fuel Consumption (gallons)	Heavy-Duty Vehicle/Diesel Fuel Consumption (Construction Equipment) (gallons)
2011	829,043,622	223,450,227
2012	823,824,155	221,468,396
2013	823,575,913	231,100,540
2014	833,908,390	233,757,358
2015	862,282,542	236,687,334
2016	886,951,688	251,535,041
2017	894,270,493	263,723,118
2018	894,127,745	259,783,109
2019	894,821,914	261,139,639
2020	763,765,305	265,477,739
2021	869,262,611	272,787,528
Source: California Air Resources Board, EMFAC2021.		

5.0 Regulatory Setting

The following is a description of Federal, State, and local environmental laws and policies related to energy consumption that are relevant to the proposed Project.

5.1 State of California

California's Energy Efficiency Standards for Residential and Non-Residential Buildings (Title 24)

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the California Energy Commission) in June 1977 and are updated every three years (Title 24, Part 6, of the California Code of Regulations). Title 24 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. On June 10, 2015, the CEC adopted the 2016 Building Energy Efficiency Standards, which went into effect on January 1, 2017. On May 9, 2018, the CEC adopted the 2019 Building Energy Efficiency Standards, which took effect on January 1, 2020.

The 2016 Standards improved upon the previous 2013 Standards for new construction of and additions and alterations to residential and nonresidential buildings. Under the 2016 Standards, residential buildings are 28 percent more energy efficient and nonresidential buildings are 5 percent more energy efficient than under the 2013 Standards. Buildings that are constructed in accordance with the 2013 Building Energy Efficiency Standards are 25 percent (residential) to 30 percent (nonresidential) more energy efficient than the prior 2008 standards as a result of better windows, insulation, lighting, ventilation systems, and other features.

The 2019 Standards improve upon the 2016 Standards. Under the 2019 Title 24 standards, residential buildings are about 7 percent more energy efficient, and when the required rooftop solar is factored in for low-rise residential construction, residential buildings that meet 2019 Title 24 standards use about 53 percent less energy than those built to meet the 2016 standards.

On August 11, 2021, the CEC adopted the 2022 Energy Code. In December 2021, it was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. Among other updates like strengthened ventilation standards for gas cooking appliances, the 2022 Energy Code includes updated standards in three major areas:

- New electric heat pump requirements for residential uses, schools, offices, banks, libraries, retail, and grocery stores.
- The promotion of electric-ready requirements for new homes including the addition of circuitry for electric appliances, battery storage panels, and dedicated infrastructure to allow for the conversion from natural gas to electricity.
- The expansion of solar photovoltaic and battery storage standards to additional land uses including high-rise multifamily residences, hotels and motels, tenant spaces, offices, (including medical offices and clinics), retail and grocery stores, restaurants, schools, and civic uses (including theaters auditoriums, and convention centers).

The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, is a statewide mandatory construction code that was developed and adopted by the California Building Standards Commission and the California Department of Housing and Community Development. CALGreen standards require new residential and commercial buildings to comply with mandatory measures under five topical areas: planning and design; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality. CALGreen also provides voluntary measures (CALGreen Tier 1 and Tier 2) that local governments may adopt which encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code was adopted in 2019 and went into effect January 1, 2020. The CEC has approved the 2022 California Green Building Standards Code it will take effect January 1, 2023. Projects whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code.[4]

[4] California Energy Commission. 2022. *2022 Building Energy Efficiency Standards*, https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency.

California Public Utilities Commission Energy Efficiency Strategic Plan

The California Public Utilities Commission (CPUC) prepared an Energy Efficiency Strategic Plan in 2011 with the goal of promoting energy efficiency and a reduction in greenhouse gases. Assembly Bill 1109, adopted in 2007, also serves as a framework for lighting efficiency. This bill requires the State Energy Resources Conservation and Development Commission to adopt minimum energy efficiency standards as a means to reduce average Statewide electrical energy consumption by not less than 50 percent from the 2007 levels for indoor residential lighting and not less than 25 percent from the 2007 levels for indoor commercial and outdoor lighting by 2018. According to the Energy Efficiency Strategic Plan, lighting comprises approximately one-fourth of California's electricity use while non-residential sector exterior lighting (parking lot, area, walkway, and security lighting) usage comprises 1.4 percent of California's total electricity use, much of which occurs during limited occupancy periods.

Renewable Portfolio Standard

In 2002, California established its Renewable Portfolio Standard program with the goal of increasing the annual percentage of renewable energy in the state's electricity mix by the equivalent of at least 1 percent of sales, with an aggregate total of 20 percent by 2017. The California Public Utilities Commission subsequently accelerated that goal to 2010 for retail sellers of electricity (Public Utilities Code Section 399.15(b)(1)). Then-Governor Schwarzenegger signed Executive Order S-14-08 in 2008, increasing the target to 33 percent renewable energy by 2020. In September 2009, then-Governor Schwarzenegger continued California's commitment to the Renewable Portfolio Standard by signing Executive Order S-21-09, which directs the California Air Resources Board under its AB 32 authority to enact regulations to help the State meet its Renewable Portfolio Standard goal of 33 percent renewable energy by 2020. In September 2010, the California Air Resources Board adopted its Renewable Electricity Standard regulations, which require all of the State's load-serving entities to meet this target. In October 2015, then-Governor Brown signed into legislation Senate Bill 350, which requires retail sellers and publicly owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030. Signed in 2018, SB 100 revised the goal of the program to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 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.

5.2 County of San Bernardino

San Bernardino County Regional Greenhouse Gas Reduction Plan

In response to statewide GHG reduction initiatives, the San Bernardino Associated Governments (formerly SANBAG, now known as SBCOG), cooperated to compile an inventory of GHG emissions and an evaluation of reduction measures to be adopted by the cities partnering within SBCOG. Reduction measures in the GHG Reduction Plan (GHGRP) are targeting GHG goals for the year 2030. Several of the measures and policies mentioned in the GHGRP for the City of San Bernardino are from the General Plan. The policies listed in the GHGRP range from broadly supporting energy efficiency and sustainability to policies closely tied to specific GHG reduction measures.

5.3 City of San Bernardino

City of San Bernardino General Plan

The City of San Bernardino's General Plan Update outlines the concerns of the community and the means of addressing those concerns. General Plan policies that relate to energy include the following:

Chapter 13 Energy and Water Conservation

Goal 13.1: Conserve scarce energy resources.

- Policy 13.1.1 Reduce the City's ongoing electricity use by 10 percent and set an example for residents and businesses to follow.
- Policy 13.1.2 Ensure the incorporation of energy conservation features in the design of all new construction and site development in accordance with State Law.
- Policy 13.1.3 Consider enrollment in the Community Energy Efficiency Program (CEEP), which provides incentives for builders who attain energy savings 30 percent above the National Model Energy Code, the Energy Star Program, which is sponsored by the United States Department of Energy and the Environmental Protection Agency and encourages superior energy efficiency by residents and businesses, or the State's Energy Efficiency and Demand Reduction Program, which offer rebates and incentives to agencies and developers who reduce energy consumption and use energy efficient fixtures and energy-saving design elements.
- Policy 13.1.4 Require energy audits of existing public structures and encourages audits of private structures, identifying levels of existing energy use and potential conservation measures.
- Policy 13.1.5 Encourage energy-efficient retrofitting of existing buildings throughout the City.

Policy 13.1.6 Consider program that awards incentives to projects that install energy conservation measures, including technical assistance and possible low-interest loans.

Policy 13.1.7 Ensure that new development consider the ability of adjacent properties to utilize energy conservation design.

Policy 13.1.8 Educate the public regarding the need for energy conservation, environmental stewardship, and sustainability techniques and about systems and standards that are currently available for achieving greater energy and resource efficiency, such as the U.S. Green Building Council's "Leadership in Energy and Environmental Design" (LEED) standard for buildings.

Policy 13.1.9 Encourage increased use of passive and active solar and wind design in existing and new development (e.g., orienting buildings to maximize exposure to cooling effects of prevailing winds, daylighting design, natural ventilation, space planning, thermal massing and locating landscaping and landscape structures to shade buildings).

Policy 13.1.10 Consider adopting an ordinance relating to energy conservation, environmental stewardship, and sustainability for new development that incorporates the LEED standards.

Chapter 12 Natural Resources and Conservation

Goal 12.6: Reduce the amount of vehicular emissions in San Bernardino.

Policy 12.6.5 Require qualifying development to implement or participate in transportation demand management programs, which provide incentives for car pooling, van pools, and the use of public transit and employ other trip reduction techniques (consistent with the Circulation Element and South Coast Air Quality Management Plan).

Policy 12.6.7 Promote the use of public transit and alternative travel modes to reduce air emissions.

6.0 CEQA Thresholds and Methodology

In accordance with CEQA Guidelines, the effects of a project are evaluated to determine whether they would result in a significant adverse impact on the environment. This memorandum will focus on these effects and offer mitigation measures to reduce or avoid any significant impacts that are identified. The criteria used to determine the significance of impacts may vary depending on the nature of the project. According to Appendix G of the CEQA Guidelines, the proposed Project would have a significant impact related to energy, if it would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation; and/or
- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

The impact analysis focuses on the three sources of energy that are relevant to the proposed Project: electricity, natural gas, and transportation fuel for vehicle trips associated with the Project as well as the fuel necessary for Project construction. The analysis of the Project's electricity and natural gas use is based on the California Emissions Estimator Model (CalEEMod), which quantifies energy use for occupancy. The results of CalEEMod are included in the Project's Greenhouse Gas Analysis, prepared by Urban Crossroads (November 18, 2022). The amount of operational fuel use was estimated using CalEEMod outputs for the Project and CARB Emissions Factor (EMFAC) 2021 computer program for typical daily fuel use in San Bernardino County. Construction fuel was calculated based on CalEEMod emissions outputs and conversion ratios from the Climate Registry.

7.0 Impacts and Mitigation Measures

Threshold 7.1 Would the project result in wasteful, inefficient, or unnecessary consumption of energy resources?

Energy consumption associated with the proposed Project is summarized in Table 3: Project and Countywide Energy Consumption. As shown in Table 3, the Project's increase in electricity usage would constitute approximately 0.020 percent of typical annual electricity usage in the County. The Project would not require natural gas. Construction-related on- and off-road automotive fuel consumption (i.e., fuel consumed during construction) would constitute approximately 0.021 percent of diesel and approximately 0.002 percent of gasoline consumption within the County. During operations, on-road automotive fuel consumption (i.e., fuel consumed from operational vehicle trips to and from the Project site) would constitute approximately 0.014 of diesel and approximately 0.005 percent of gasoline consumption Countywide.

Construction-Related Energy

During construction, the Project would consume energy in two general forms: (1) the fuel energy consumed by construction vehicles and equipment; and (2) bound energy in construction materials, such as asphalt, steel, concrete, pipes, and manufactured or processed materials such as lumber and glass.

Fossil fuels used for construction vehicles and other energy-consuming equipment would be used during grading, paving, and building construction. Fuel energy consumed during construction would be temporary in nature and would not represent a significant demand on energy resources. Some incidental energy conservation would occur during construction through compliance with State requirements that equipment not in use for more than five minutes be turned off. Project construction equipment would also be required to comply with the latest EPA and California Air Resources Board engine emissions standards. These emissions standards require highly efficient combustion systems that maximize fuel efficiency and reduce unnecessary fuel consumption. Due to increasing transportation costs and fuel prices, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction.

Table 3: Project and Countywide Energy Consumption

Energy Type	Project Annual Energy Consumption	San Bernardino County Annual Energy Consumption[1,2]	Percentage Increase Countywide
Operational Electricity			
Electricity Consumption	3,142,073 kWh	15,968,515,536 kWh	0.020%
Automotive Fuel Consumption[3]			
Project Construction[4,5]			
Diesel	57,670 gallons	276,240,500 gallons	0.021%
Gasoline	20,733 gallons	867,249,800 gallons	0.002%
Project Operations			
Diesel	38,416 gallons	276,240,500 gallons	0.014%
Gasoline	46,887 gallons	867,249,800 gallons	0.005%

Notes:
1. The Project's consumption of electricity and natural gas is compared with the total consumption in San Bernardino County in 2020.
2. The Project's consumption of automotive fuel is compared with the countywide fuel consumption (projected) in 2022.
3. Countywide fuel consumption is from the California Air Resources Board EMFAC2021 model.
4. Construction fuel consumption is based equipment and load factors from California Emissions Estimator Model (CalEEMod version 2022.1).
5. The estimated construction fuel consumption is based on the Project's construction equipment list timing/phasing, and hours of duration for construction equipment, as well as vendor, hauling, and construction worker trips.

Refer to Appendix A: Energy Data for assumptions used in this analysis.

Substantial reductions in energy inputs for construction materials can be achieved by selecting building materials composed of recycled materials that require substantially less energy to produce than non-recycled materials. The incremental increase in the use of energy bound in construction materials such as asphalt, steel, concrete, pipes and manufactured or processed materials (e.g., lumber and gas) would not substantially increase demand for energy compared to overall local and regional demand for construction materials. It is reasonable to assume that production of building materials such as concrete, steel, etc., would employ all reasonable energy conservation practices in the interest in minimizing the cost of doing business.

As indicated in Table 3, the overall diesel fuel consumption during construction of the Project would be 57,670 gallons and gasoline consumption would be 20,733 gallons, which would constitute nominal percentages (0.021 percent and 0.002 percent, respectively) of fuel use in the County. As such, Project construction would have a minimal effect on the local and regional energy supplies. It is noted that construction fuel use is temporary and would cease upon completion of construction activities. There are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or State. Therefore, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. A less than significant impact would occur in this regard.

Operational Energy

Energy Demand

Transportation Energy Demand. Pursuant to the Federal Energy Policy and Conservation Act of 1975, the National Highway Traffic and Safety Administration (NTSA) is responsible for establishing additional vehicle standards and for revising existing standards. Compliance with Federal fuel economy standards is not determined for each individual vehicle model. Rather, compliance is determined based on each manufacturer's average fuel economy for the portion of their vehicles produced for sale in the United States. Table 4 provides an estimate of the daily fuel consumed by vehicles traveling to and from the Project site. As indicated in Table 4, Project operations are estimated to consume approximately 38,416 gallons of diesel fuel and 46,887 gallons of gasoline fuel per year, which would constitute 0.014 percent and 0.005 percent, respectively, of Countywide automotive fuel consumption. The Project would not result in any unusual characteristics that would result in excessive long-term operational fuel consumption. Fuel consumption associated with vehicle trips generated by the Project would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

Building Energy Demand. Operations of the proposed Project would require approximately 3,142,073 kWh of electricity per year and would not require natural gas. The proposed Project would be required

to comply with Title 24 Building Energy Efficiency Standards, which provide minimum efficiency standards related to various building features, including appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting. Implementation of the Title 24 standards significantly reduces energy usage. Furthermore, the electricity provider, SCE, is subject to California's Renewables Portfolio Standard (RPS). The RPS requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 50 percent of total procurement by 2030. Renewable energy is generally defined as energy that comes from resources which are naturally replenished within a human timescale such as sunlight, wind, tides, waves, and geothermal heat. The increase in reliance of such energy resources further ensures projects will not result in the waste of the finite energy resources.

As indicated in Table 3, operational energy consumption would constitute approximately 0.020 percent of Countywide electricity consumption. The Project would adhere to all Federal, State, and local requirements for energy efficiency, including the Title 24 standards. As such, the Project would not result in the inefficient, wasteful, or unnecessary consumption of building energy.

Conclusion. As shown in Table 3, the increase in electricity and automotive fuel consumption over existing conditions is minimal (less than one percent). For the reasons described above, the Project would not place a substantial demand on regional energy supply or require significant additional capacity, or significantly increase peak and base period electricity demand. Thus, the Project would not cause a wasteful, inefficient, and unnecessary consumption of energy during Project construction, operation, and/or maintenance, or preempt future energy development or future energy conservation.

Threshold 7.2 Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Title 24 of the California Code of Regulations contains energy efficiency standards for residential and non-residential buildings based on a state mandate to reduce California's energy demand. Specifically, Title 24 addresses a number of energy efficiency measures that impact energy used for lighting, water heating, heating, and air conditioning, including the energy impact of the building envelope such as windows, doors, skylights, wall/floor/ceiling assemblies, attics, and roofs.

Part 6 of Title 24 specifically establishes energy efficiency standards for residential and nonresidential buildings constructed in the State of California in order to reduce energy demand and consumption. The Project would comply with Title 24, Part 6 per state regulations. In accordance with Title 24 Part 6, the Project would have: (a) sensor based lighting controls— for fixtures located near windows, the lighting would be adjusted by taking advantage of available natural light; and, (b) efficient process

equipment—improved technology offers significant savings through more efficient processing equipment.

Title 24, Part 11, contains voluntary and mandatory energy measures that are applicable to the Project under the California Green Building Standards Code. As discussed above, the Project would result in an increased demand for electricity and petroleum. In accordance with Title 24 Part 11 mandatory compliance, the Applicant would have (a) 50 percent of its construction and demolition waste diverted from landfills; (b) mandatory inspections of energy systems to ensure optimal working efficiency; (c) low pollutant emitting exterior and interior finish materials, such as paints, carpets, vinyl flooring and particle boards; and (d) a 20% reduction in indoor water use. In addition, the Project would not require natural gas to operate. Compliance with all of these mandatory measures would decrease the consumption of electricity, natural gas, and petroleum.

The San Bernardino County RGHGRP establishes a series of energy efficiency related goals intended to reduce greenhouse gas (GHG) emissions based on the AB 32 Scoping Plan. Those applicable to the Project are Renewables Portfolio Standard for Building Energy Use, Assembly Bill 1109 Energy Efficiency Standards for Lighting, Electricity Energy Efficiency, and Commercial Energy Efficiency Requirements.

The Project would not conflict with any of the federal, state, or local plans for renewable energy and energy efficiency. Because the Project would comply with Parts 6 and 11 of Title 24 and with RGHGRP measures, no conflict with existing energy standards and regulations would occur. Therefore, impacts associated with renewable energy or energy efficiency plans would be considered less than significant.

8.0 References

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California Department of Tax and Fee Administration, *April 2020 – Motor Vehicle Fuel 10 Year Reports*, https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm, accessed December 13, 2022.

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U.S. Energy Information Administration, *California State Profile and Energy Estimates*, https://www.eia.gov/state/?sid=CA, accessed December 13, 2022.

Urban Crossroads, *Gateway South 9 Warehouse Greenhouse Gas Analysis*, November 18, 2022

Appendix A

Energy Data

Construction Fuel Consumption

On-Site Diesel[1] (off-road construction Equipment)	$MTCO_2e$	Gallons of Fuel[4]	Current County Fuel	Percent
Demolition	32	3,143		
Site Preparation/Grading	83	8,158		
Infrastructure	0	0		
Building Construction	336	33,103		
Paving & Architectural Coating	20	1,998		
Total	471	46,402	276,240,500	0.0168%

Off-Site Diesel[1] (on-road construction trips)				
Demolition	9	917		
Site Preparation/Grading	2	149		
Infrastructure	0	0		
Building Construction	96	9,468		
Paving & Architectural Coating	7	734		
Total	114	11,268	276,240,500	0.0041%

Off-Site Gasoline[2]				
Demolition	2	257		
Site Preparation/Grading	4	400		
Infrastructure	0	0		
Building Construction	167	18,944		
Paving & Architectural Coating	10	1,133		
Total	183	20,733	867,249,800	0.0024%

Total Diesel Fuel		57,670	276,240,500	0.0209%
Total Gasoline Fuel		20,733	867,249,800	0.0024%
Total Construction Fuel	768	78,403		

Construction Phase[3]	Demolition (MTCO2e/yr)			Site Preparation (MTCO2e/yr)			Grading (MTCO2e/yr)		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2023	32	9	2				83	2	4
2024									
Total	32	9	2	0	0	0	83	2	4

Construction Phase[3]				Building Construction (MTCO2e/yr)			Architectural Coating & Paving (MTCO2e/yr)		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2023				228	65	114			
2024				108	31	53	20	7	10
Total	0	0	0	336	96	167	20	7	10

Notes:

[1] Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

[2] Fuel used for worker trips assumed to be gasoline.

[3] $MTCO_2e$ rates from CalEEMod (Urban Crossroads 2022)

[4] For CO2e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Operations : Off-Road Equipment

On-Site Diesel[1] (off-road construction Equipment)	$MTCO_2e$	Gallons of Fuel[2]	Current County Fuel	Percent
Cargo Handling Equipment	47	4,668		
Total	47	4,668	276,240,500	0.0017%

Notes:

[1] Fuel used assumed to be diesel.

[2] For CO2e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Construction Water Energy

Daily Soil Disturbance[1]	6	acres
Days of Soil Disturbance[2]	20	days
Water Concentration[3]	3,020	gallons/acre
Water Energy Intensity[4]	11,110	kWh/MG
Total Construction Water	0.33	million gallons
Construction Water Energy	3,691	kWh
	0.0037	GWh

Notes:

[1] Total daily acres disturbed from offroad equipment per (AQ Analysis, Urban Crossroads 2022) and maximum SCAQMD LST values for soil-disturbing equipment.

[2] Number of days of construction with soil-disturbing equipment per CalEEMod (Urban Crossroads, 2022).

[3] Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.

[4] Water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343.

Operational Fuel

Vehicle Type	Percent[1]	Annual VMT[2]	MPG[3]	Annual Fuel (Gallons)	Fuel Type	SB County Gallons[4]	RS Percent
Passenger Cars (Gasoline)	1.00	1,012,762	21.6	46,887	Gas	867,249,800	0.0054%
Light/Medium Trucks	0.40	110,140	17.2	6,403	Diesel	276,240,500	
Heavy Trucks/Other	0.60	166,802	6.1	27,345	Diesel	276,240,500	
Cargo Handling Equipment				4,668			
Total Diesel	1.00	276,942		38,416			0.0139%
Total Gasoline	1.00	1012762		46,887			0.0054%

Passenger Vehicles				
LDA	LDT1	LDT2	MCY	MDV
0.5623	0.0467	0.2239	0.0201	0.1470

Trucks							
LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
0.1342	0.0362	0.0000	0.0000	0.0000	0.0000	0.2273	0.6023

Notes:

[1] Percent of vehicle trip distribution based on fleet mix in GHG Analysis (Table 4-4 and Table 4-5).

[2] Total annual operational VMT based on mitigated annual VMT from CalEEMod .

[3] Average fuel economy derived from Department of Transportation.

[4] Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Operational Water Energy

Mitigated Indoor	91.9	million gallons
Indoor Energy Intensity Factor[1]	13,021	kWh/MG
Mitigated Outdoor	1	million gallons
Outdoor Energy Intensity Factor[2]	11,110	kWh/MG
Operational Water Energy	1,210,440	kWh

Land Use[3]	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Unrefrigerated Warehouse	92	1	92	1
User Defined Industrial	0	0	0	0
Parking Lot	0	0	0	0
Non Asphalt Surfaces	0	0	0	0
Total Operational Water	92	1	92	1

Notes:

[1] Indoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, distribution, and wastewater.

[2] Outdoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, and distribution.

[3] Operational water use values per CalEEMod (Urban Crossroads, 2022).

Elecricity/Natural Gas Energy

	Mitigated Project Annual Energy	San Bernardino County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	3,142,073	15,968,515,536	0.0197%
Natural Gas (kBTU/yr)	0	52,723,642,800	0.0000%
Natural Gas (therms/yr)	0	527,236,428	0.00000000%

Land Use	Electricity[1] (kWh/yr)		Natural Gas[2] (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Unrefrigerated Warehouse	1,835,473	1,835,473	0	0
User Defined Industrial	0	0	0	0
Parking Lot	96,160	96,160	0	0
Non Asphalt Surfaces	0	0	0	0
Water Energy	*1,210,440*	*1,210,440*	0	0
Total Energy	3,142,073	3,142,073	0	0

Notes:

[1] Electricity use per CalEEMod (Urban Crossroads 2022).

[2] Natural Gas use per CalEEMod (Urban Crossroads 2022).

[3] County total energy values from California Energy Commission energy reports available through ecdms.energy.ca.gov. (year 2020)

Appendix F:

Phase I Environmental Site Assessment

Geosyntec consultants

2355 Northside Drive, Suite 250
San Diego, CA 92108
PH 858.674.6559
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09 September 2022

VIA E-MAIL

Mr. Joshua Cox
Hillwood Enterprises, L.P
Vice President
36 Discovery, Suite 130
Irvine, CA 922618
Attn: Josh.Cox@hillwood.com

Subject: **Phase I Environmental Site Assessment**
Site: Gateway South Building 9 Assemblage, San Bernardino, CA 92408

Dear Mr. Staunton:

In accordance with your authorization of Geosyntec Consultants, Inc.'s (Geosyntec's) proposal dated 13 April 2022 and updated proposal dated 27 July 2022, Geosyntec has prepared the enclosed Phase I Environmental Site Assessment report for Hillwood Enterprises, L.P. for the above-referenced property. Enclosed is an electronic copy of the report.

Should you have questions regarding this submittal or need additional information, please do not hesitate to contact us. We appreciate the opportunity to be of service to you.

Sincerely,

DRAFT
Veryl Wittig
Senior Principal

Encl.

Geosyntec consultants

engineers | scientists | innovators

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Site: Gateway South Building 9 Assemblage, San Bernardino, California 92408

Prepared for

Hillwood Enterprises, L.P
36 Discovery, Suite 130
Irvine, CA 92618

Prepared by

Geosyntec Consultants, Inc.
2355 Northside Drive, Suite 250
San Diego, CA 92108

Project SC1256

09 September 2022

EXECUTIVE SUMMARY

This Executive Summary presents the results of the Phase I Environmental Site Assessment (ESA) conducted by Geosyntec Consultants, Inc. (Geosyntec) for a 14.69 acre property located between East Norman Road and East Orange Show Road in San Bernardino, California ("Site"). This Phase I ESA was prepared in accordance with the scope of work, terms, and conditions described in Geosyntec's proposal dated 13 April 2022 and updated proposal dated 27 July 2022. This Phase I ESA was conducted in accordance with ASTM International (ASTM) Standard E1527-13[1] to identify, to the extent feasible, "recognized environmental conditions" (RECs) at the Site as the term REC is defined by ASTM E1527-13.

The Site comprises 31 contiguous parcels identified by the following addresses: 695, 706, 707, 715, 755, 787, 807, 823, and 867 East Norman Road; 648, 652, 668, 684, and 788 East Orange Show Road; and 24432 and 24512 Pioneer Avenue. The following fifteen parcels are not associated with numerical addresses: 0280-172-04, 0280-172-11, 0280-172-17, 0280-172-20, 0280-172-21, 0280-172-22, 0280-192-01, 0280-192-04, 0280-192-05, 0280-192-08, 0280-192-09, 0280-192-11, 0280-192-12, 0280-192-16, and 0280-202-08. The Site is owned by various individuals and entities including Assets Corp of America Inc., DHA Opportunity I LP, Dwayne A. Gleason, Ernesto Quintero, Espiridion Gonzalez, Felipe J. Donis, Fernando Hernandez, Francisco Gonzalez, Geerlings Equipment Rental Inc., Jovita Morga, Lauro Properties LLC, Maria T. Mejia Navarro, Michael Lee Johnston, Mohammed Ali Ahmed Ali, Norman Road Investments LLC, Oscar Patino, Payton B. and Latonia Living Trust 12, Rubi Do, Steven D. Arrietta, Swazey Quintero, Thomas Williams, and William Spencer Carey.

The Site is accessible from its northern Site boundary via East Norman Road, the western Site boundary via Lena Road and the southern Site boundary along East Orange Show Road. At the time of Geosyntec's Site reconnaissance, ten residential properties were located in the west portion of the Site and one residence was located in the northeast portion of the Site. Commercial operations at the Site include a towing company; heavy equipment rental company; roofing contractor, vehicle maintenance, and truck/trailer, heavy equipment (i.e., excavators, backhoes, and front end loaders) storage yards; and miscellaneous storage yards (i.e., lumber, pipes, pipe fittings, and empty drums). A cellular tower is located within a vacant lot in the southeast portion of the Site. Numerous partially-filled unlabeled containers and drums containing petroleum products, paints, and household cleaning supplies were primarily observed in the east area of the Site. Aggregate piles were observed in the southeast portion of the Site. Vacant lots are located in the central and southwest portions of the Site.

[1] ASTM Standard E-1527-13, "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process"*

Based on the information set forth in this Phase I ESA, Geosyntec has concluded the following:

Recognized Environmental Conditions (RECs)

- No RECs were identified during this Phase I ESA.

Controlled Recognized Environmental Conditions (CRECs)

- No CRECs were identified during this Phase I ESA.

Historical Recognized Environmental Conditions (HRECs)

- No HRECs were identified during this Phase I ESA.

De Minimis Conditions

- **Current Vehicle and Equipment Storage:** Areas of the Site are currently used for truck/trailer, vehicle, and construction-related equipment storage. Periodic maintenance of vehicles and equipment are performed in three areas of the Site, including Geerlings Equipment Rental at 867 Norman Road and two vehicle maintenance/storage yards. Small quantities of hazardous materials were used in these areas. Staining observed on unpaved surfaces at multiple locations, evidence of mis-handling of hazardous materials containers, ASTs and abandoned fuel tanks from trucks, and general poor housekeeping indicates the potential for discharge of hazardous materials to the ground and subsurface. The improper hazardous materials use and storage was identified as a potential source of subsurface impacts to soil and/or soil vapor at the Site.

  Geosyntec performed a limited Phase II ESA at the Site on 08 July 2022 and 05 August 2022 to evaluate the potential impacts at the Site due to improper hazardous materials use and storage and undocumented fill dirt. Soil vapor samples were collected throughout equipment storage and hazardous materials storage areas. Soil vapor concentrations did not exceed DTSC Screening Levels for commercial/industrial ambient air.

  Two soil samples collected at APN: 0280-172-17 (HA-4-220805) and 867 Norman Road (HA-3) exceeded the commercial screening level for total petroleum hydrocarbons in the diesel range. The soil samples contained TPH diesel at 2,300 milligrams per kilogram (mg/kg, HA-4-220805) and 13,000 mg/kg (HA-3), which exceeded the commercial ESL of 1,200 mg/kg.

  For evaluating commercial worker exposures, a 1×10^{-5} risk level is commonly used for managing commercial/industrial sites in California. The adjusted 1×10^{-5} risk level for TPH diesel would be 12,000 mg/kg. The concentration of TPH diesel in the soil sample collected

at APN: 0280-172-17 (HA-4-220805) is below the adjusted risk level. Based on the elevated concentrations of TPH diesel at 867 Norman Road, a hot spot removal was performed on 05 August 2022. Confirmation soil samples collected following the excavation detected TPH diesel below the commercial screening level.

- **Undocumented Fill Dirt:** During the initial Site reconnaissance in May 2022, Geosyntec observed aggregate piles of fill dirt and broken concrete located in a heavy equipment storage yard in the eastern portion of the Site. The source of the fill was unknown. Based on the lack of data regarding the fill composition and the potential for the fill to contain contaminants, this finding was identified as a potential environmental concern.

  Soil samples collected from the undocumented fill on 08 July 2022 detected various metals, and TPH in the diesel and motor oil range above laboratory reporting limits; however, all concentrations were below their respective commercial RSLs for soil. PCBs and organochlorine pesticides were not detected above laboratory reporting limits.

- **Solid Waste/Debris:** Solid waste was observed in numerous areas throughout the Site during the Site reconnaissance. Vehicle parts, tires, piping, ASTs, lumber, furniture, compressors, building materials, and other miscellaneous debris was observed, particularly in the central portion of the Site (755 and 787 Norman Road and APNs: 0280-192-06 and 0280-192-07). In addition, numerous containers of petroleum products (ranging in size from 1 to 5 gallons) were discarded on the ground. No major staining or releases were observed from the solid waste/debris; therefore, this finding is considered to be a de minimis condition.

Data Gaps

Our assessment revealed the following data gaps, as defined by ASTM:

- During the Site reconnaissance, Geosyntec did not have access to the property identified by the APN: 0280-192-04, occupied by a roofing contractor and 0280-192-01 containing numerous truck trailers. Geosyntec was able to observe these properties from adjoining fence lines. In addition, Geosyntec was not provided access to the interior of residential houses or offices at the Site.

- ASTM E1527-13 states that "*interviews with past owners, operators, and occupants of the property who are likely to have material information regarding the potential for contamination at the property shall be conducted to the extent that they have been identified."* Geosyntec was not provided with and did not identify owner contact information prior to the current Site owner. However, since relevant historical documents were obtained, this limitation is not considered to be significant.

The above data gaps are not considered to be significant with respect to identifying RECs for the Site.

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1. INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) was retained by Hillwood Enterprises, L.P. to conduct a Phase I Environmental Site Assessment (ESA) for a 14.69 acre property located between East Norman Road and East Orange Show Road in San Bernardino, California ("Site"). The Site comprises 31 contiguous parcels identified by the following addresses: 695, 706, 707, 715, 755, 787, 807, 823, and 867 East Norman Road; 648, 652, 668, 684, and 788 East Orange Show Road; and 24432 and 24512 Pioneer Avenue. The following fifteen parcels are not associated with numerical addresses: 0280-172-04, 0280-172-11, 0280-172-17, 0280-172-20, 0280-172-21, 0280-172-22, 0280-192-01, 0280-192-04, 0280-192-05, 0280-192-08, 0280-192-09, 0280-192-11, 0280-192-12, 0280-192-16, and 0280-202-08. The Site location is shown on **Figure 1** (Site Location Map). A recent site vicinity property layout is depicted on **Figure 2** (Site Vicinity Map) and a recent site layout is depicted on **Figure 3** (Site Layout Map).

1.1 Objective

This Phase I ESA was conducted in general accordance with the scope and limitations of the guidance contained within the ASTM International (ASTM) Practice E1527-13. The objective of performing this Phase I ESA in accordance with ASTM Standard E1527-13 was to identify, to the extent feasible, "recognized environmental conditions" [2] (RECs) at the Site as the term REC is defined by ASTM E1527-13. Deviations or exceptions to the guidance contained in the ASTM E1527-13 standard of practice are described in Section 1.4.

Geosyntec's effort is to provide the User with a Phase I ESA that includes a search for the existence of potential or known surface or subsurface environmental impacts at the Site. For the purposes of this Phase I ESA report, HRP is the "User," defined as "*the party seeking to use Practice E 1527-13 to complete an environmental site assessment of the property…*" in partial fulfillment of the requirements of the All Appropriate Inquiry Rule under 40 CFR 312.

1.2 Scope of Services

The Phase I ESA scope of work included the following:

- Review of pertinent information/documents
- Review of environmental databases regarding the Site and properties in the vicinity of the Site pursuant to the ASTM E1527-13 Practice

[2] As defined by ASTM E1527-13, a Recognized Environmental Condition is: "the presence or likely presence of any hazardous substances or petroleum products in, on or at a property (1) due to [a] release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." The definition further states that "[*d]e minimis* conditions are not recognized environmental conditions."

- Review of historical land usage via historical aerial photographs, fire insurance maps, city directories, property tax files, and topographic maps, as available
- Visit to the Site for a visual reconnaissance of the major interior and exterior Site features and use of adjoining properties
- Preparation of a Phase I ESA report

In accordance with Geosyntec's scope of work for this project, "non-scope considerations", as defined in ASTM E1527-13, were not evaluated as part of this Phase I ESA.

Geosyntec's authorization and conduct to complete the scope of work are as follows:

Table 1. Scope of Services Details

Scope Item	Detailed Information
Site Name or Reference	Hillwood Enterprises, L.P.
Site Addresses	695, 706, 707, 715, 755, 787, 807, 823, and 867 East Norman Road; 648, 652, 668, 684, and 788 East Orange Show Road; and 24432 and 24512 Pioneer Avenue.
City, State, and Zip Code	San Bernardino, California 92408
San Bernardino County Assessor Parcel Numbers (APNs)	0280-172-01, 0280-172-02, 0280-172-04, 0280-172-11, 0280-172-17, 0280-172-19, 0280-172-20, 0280-172-21, 0280-172-22, 0280-192-01, 0280-192-02, 0280-192-04, 0280-192-05, 0280-192-06, 0280-192-07, 0280-192-08, 0280-192-09, 0280-192-10, 0280-192-11, 0280-192-12, 0280-192-13, 0280-192-16, 0280-192-18, 0280-192-19, 0280-192-20, 0280-192-21, 0280-192-22, 0280-202-07, 0280-202-08, 0280-202-09, and 0280-202-11.
Proposal Dates	13 April 2022 and 27 July 2022
Authorization Date	22 April 2022 and 01 August 2022
Database Report Date	28 April 2022
Site Visit Date	09 May 2021 and 05 August 2022
Geosyntec Site Personnel	Ms. Jackie Hyman and Mr. Youcef Boutammine
Facility Personnel and Role	Various property tenants
Report Preparer(s)	Ms. Emily Glensky and Ms. Jackie Hyman
Report Reviewer(s)	Mr. Veryl Wittig
Environmental Professional[1]	Mr. Wittig

Note 1: The Environmental Professional meets the requirements as stated in ASTM Practice E1527-13.

The professional qualifications of the senior reviewers, including the signatory Environmental Professional are presented in Section 10.

1.3 Significant Assumptions

Geosyntec took no significant assumptions into account as part of this project, except as noted in the proposal.

1.4 Limitations, Deviations, and Exceptions

This Phase I ESA was conducted according to the agreed upon scope of work consistent with the ASTM Practice E1527-13, except as follows:

- ASTM E1527-13 states that "*interviews with past owners, operators, and occupants of the property who are likely to have material information regarding the potential for contamination at the property shall be conducted to the extent that they have been identified*." Geosyntec was not provided with and did not identify owner contact information prior to the current Site owner. However, since relevant historical documents were obtained, this limitation is not considered to be significant.

This Phase I ESA contains a property description and history, an environmental database review, a summary of observations made during the site reconnaissance, and descriptions of information obtained during interview(s) of person(s) knowledgeable about the Site. This Phase I ESA did not include sampling rock, soil, groundwater, surface water, soil vapor, air, or on-site substances or materials. Therefore, it is not possible to confirm the presence or absence of hazardous substances or petroleum products in the environments associated with the property.

The findings and conclusions presented in this Phase I ESA are the result of professional interpretation of the information collected at the time of this study. Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information. Although care has been taken in compiling this information, Geosyntec has not independently validated this information and provides no warranty as to its accuracy or completeness. The Phase I ESA does not necessarily include an exhaustive search of all available records, nor does it include detailed assessment of all Phase I ESA findings. Therefore, Geosyntec cannot "certify" or guarantee that any property is free of environmental impairment; no warranties regarding the environmental quality of the property are expressed or implied.

1.5 Special Terms and Conditions

No special contractual terms or conditions were taken into account as part of this project, except as noted in the proposal.

1.6 User Reliance

This Phase I ESA report has been prepared solely for the benefit of Hillwood Enterprises.

Geosyntec has issued the Phase I ESA report to Hillwood Enterprises and grants Hillwood Enterprises the right to rely on the report contents. Except as specifically set forth in Geosyntec's proposal to Hillwood Enterprises to perform this work, no third party shall have the right to rely on Geosyntec opinions rendered in connection with the Services without Geosyntec's written consent which may be conditioned on the third party's agreement to be bound to acceptable conditions and limitations similar to those agreed to by Hillwood Enterprises. Please note that Geosyntec's consent to provide a right-to-rely on the Phase I ESA report is subject to Hillwood Enterprises approval and to agreement to Geosyntec's terms and conditions associated with Geosyntec's performance of this specific Phase I ESA.

2. SITE DESCRIPTION

The Site description presented herein is derived from information provided by the User, Hillwood Enterprises, and information gathered during the research of historical records and the reconnaissance unless referenced otherwise.

2.1 Site Location and General Characteristics

The Site is a 14.69 acre property located between East Norman Road and East Orange Show Road in San Bernardino, California and is surrounded by a mix of residential, commercial, and light industrial properties. The Site comprises 31 contiguous parcels (**Table 2)**. The location of the Site is shown on **Figure 1**. A recent vicinity property layout is depicted on **Figure 2** and a recent site layout is depicted on **Figure 3**. Ownership information, where available, is provided in **Appendix A**.

Table 2. Parcel Information

Parcel ID	Address	Zoning	Approximate Area (Acres)	Land Use/Description
0280-172-01	668 Orange Show Road	Commercial	0.59	Residential on Commercial
0280-172-02	652 Orange Show Road	Residential	0.59	Single Family Residential
0280-172-04	N/A	Industrial	0.17	Vacant
0280-172-11	N/A	Industrial	0.17	Vacant
0280-172-17	N/A	Commercial	0.92	Vacant
0280-172-19	24432 Pioneer Avenue	Residential	0.36	Single Family Residential
0280-172-20	N/A	Industrial	0.24	Vacant
0280-172-21	N/A	Commercial	0.59	Vacant
0280-172-22	N/A	Commercial	0.27	Vacant
0280-192-01	N/A	Commercial	0.59	Vacant
0280-192-02	695 Norman Road	Industrial	0.59	Industrial (SFR 3)
0280-192-04	N/A	Industrial	0.59	Vacant
0280-192-05	N/A	Commercial	0.59	Vacant
0280-192-06	755 Norman Road	Industrial	0.59	Residential on Commercial
0280-192-07	787 Norman Road	Commercial	0.61	Commercial (SFR 3)

0280-192-08	N/A	Industrial	0.34	Vacant
0280-192-09	N/A	Industrial	1.39	Vacant
0280-192-10	788 Orange Show Road	Industrial	0.54	Vacant
0280-192-11	N/A	Residential	0.57	Vacant
0280-192-12	N/A	Industrial	0.59	Vacant
0280-192-13	24512 Pioneer Avenue	Commercial	0.60	Vacant
0280-192-16	N/A	Industrial	0.61	Vacant
0280-192-18	684 Orange Show Road	Industrial	0.49	Residential on Commercial
0280-192-19	715 Norman Road	Industrial	0.30	Commercial
0280-192-20	707 Norman Road	Industrial	0.30	Commercial
0280-192-21	706 Orange Show Road	Residential	0.61	Residential on Commercial
0280-192-22	648 Orange Show Road	Industrial	0.12	Vacant
0280-202-07	807 Norman Road	Industrial	0.92	Commercial
0280-202-08	N/A	Residential	1.8	Vacant
0280-202-09	867 Norman Road	Industrial	0.94	Commercial
0280-202-11	823 Norman Road	Industrial	0.89	Vacant

Source: https://arcpropertyinfo.sbcounty.gov/

2.2 Current and Former Uses of the Site

The Site is presently owned by various individuals and entities including Assetts Corp of America Inc., DHA Opportunity I LP, Dwyne A. Gleason, Ernesto Quintero, Espiridion Gonzalez, Felipe J. Donis, Fernando Hernandez, Francisco Gonzalez, Geerlings Equipment Rental Inc., Jovita Morga, Lauro Properties LLC, Maria T. Mejia Navarro, Michael Lee Johnston, Mohammed Ali Ahmed Ali, Norman Road Investments LLC, Oscar Patino, Payton B. and Latonia Living Trust 12, Rubi Do, Steven D. Arrietta, Swazey Quintero, Thomas Williams, and William Spencer Carey.

At the time of Geosyntec's Site reconnaissance, ten residential properties were located in the west portion of the Site and one residence was located in the northeast portion of the Site. Commercial operations at the Site include a towing company; heavy equipment rental company; roofing contractor, vehicle maintenance, and truck/trailer, heavy equipment (i.e., excavators, backhoes, and front end loaders) storage yards; and miscellaneous storage yards (i.e., lumber, pipes, pipe

fittings, and empty drums). A cellular tower is located within a vacant lot in the southeast portion of the Site. Numerous partially-filled unlabeled containers and drums containing petroleum products, paints, and household cleaning supplies were primarily observed in the east portion of the Site. Aggregate piles were observed in the southeast portion of the Site. Vacant lots are located in the central and southwest portions of the Site.

During the early 1930s, the Site appeared to be either fallow agricultural land or undeveloped. A single dwelling was developed in the northwest portion of the Site. By the late 1930s, row crops/orchards were visible surrounding the dwelling in the northwest portion of the Site. New development appeared to occur in the late 1940s, which included construction of residential housing in the western half of the Site and in the northeast portion of the Site along East Norman Road. The remainder of the Site appeared to be vacant land. Between the early 1950s and the 1980s, various residential structures were demolished and redeveloped. By the mid-1980s, truck and/or storage yards were visible in the central, northern portion of the Site at mixed use commercial/residential properties. By the mid-1990s, structures in the northwest portion of the Site were demolished. During the 2000s, increased trailer parking and storage areas were visible throughout the Site. No significant changes were visible at the Site through the present.

2.3 Description of Structures, Roads, Other Improvements on the Site

Five parcels developed with seven residences are located along East Norman Road at the north Site boundary and are identified by the addresses 685 to 787 East Norman Road. The yards on the southern portion of these residences were used for residential purposes and no hazardous materials use or storage was observed. An aboveground and underground septic tank were observed on the residential properties.

East of the residences is a roofing contractor (APN: 0280-192-04). Geosyntec did not have access to this property during the Site reconnaissance, however, areas of the property could be viewed from adjoining fence lines. The property was largely used for storage of roofing tiles, panelling, roof vents and miscellaneous roofing materials. Small quantities of roofing maintenance supplies were visible on storage racks in the south portion of the property.

East of the roofing contractor are two vehicle maintenance and storage yards (APNs: 0280-192-05, 0280-192-06 and 755 Norman Road). Two small canopies located on the northern portion of the property are used for periodic maintenance activities. No aboveground or subsurface hoists were observed at the property. Small quantities of hazardous materials including transmission fluid and diesel engine oil were stored in 5-gallon containers beneath the canopy at the property identified by APN: 0280-192-05. Minor oil staining on concrete surrounding the containers was addressed by using absorbent. The south portion of the yards was used for vehicle and trailer parking, and miscellaneous storage. Numerous partially filled containers and drums containing petroleum products, paints, household cleaning supplies and unlabelled containers were observed throughout these properties.

The central portion of the Site (APNs: 0280-192-08 and 0280-192-09) is utilized as a truck yard. No vehicle maintenance or hazardous materials use/storage were observed at the truck yard. A vacant lot with a cellular tower is located in the eastern portion of the Site (APNs: 0280-202-08). American Tow Group occupies the property at 807 Norman Road, east of the vacant lot. An office is located on the northern portion of the property. The southern portion of the property is used for vehicle storage. A small wash pad connected to a drain was observed in the southern end of the vehicle storage lot. A representative from the American Tow Group indicated the wash pad has not been their company.

The eastern portion of the Site at 823 Norman Road is utilized for construction equipment storage. This property was inaccessible during the Site reconnaissance. Several aggregate piles of fill dirt and broken concrete (extending approximately 10 to 20 feet) were observed in the southeast portion of the property. The eastern-most property at 867 Norman Road is developed with a residence, modular office, and larger manufactured office building. The southern portion of the property is occupied by Geerlings Heavy Equipment Rental. Minor maintenance operations are performed in the yard. Two 55-gallon drums of diesel engine oil and small quantities of petroleum products (containers smaller than 5-gallons) are stored within the yard.

Five residential properties are located in the southwest portion of the Site (648, 652, 668, 684 and 706 East Orange Show Road and 24432 Pioneer Avenue). At the time of the Site reconnaissance, the residence at 684 East Orange Show Road appeared to be vacant. Small quantities (less than 5 gallons) of new engine oil were stored at the residential property at 24432 Pioneer Avenue. The yard at 706 East Orange Show Road contains several conex boxes, a mobile office, and various piping equipment. The yard at 24432 Pioneer contained several portable concrete mixers.

A large storage yard is located in the northwest corner of the Site (APNs: 0280-172-17, 0280-172-22, and 0280-172-21). The yard is used for storage of numerous industrial-scale pipes, shoring, a portable concrete aboveground storage tank (AST), heavy equipment and heavy equipment parts. Approximately five drums are stored in the yard, including one drum labelled as concrete remover.

Vacant lots are located at the west boundary of the Site (APNs: 0280-172-11, 0280-172-04, and 0280-172-20) and south, central areas of the Site (APNs: 0280-192-11, 0280-192-12 and 24512 Pioneer Avenue).

Current Site features observed during the site reconnaissance are presented on **Figure 3**.

2.4 Current and Prior Use of Adjoining Properties

Since 2013, the vicinity surrounding the Site has consisted primarily of commercial and industrial properties. The land use immediately surrounding the Site is noted in **Table 3** below.

Table 3. Site Vicinity Land Use

Direction	Current Geosyntec-Observed Use[1]	Identified Prior Use	Considered to be More Likely to Result in Surface/Subsurface Quality Impacts to the Site (Yes/No)
North	East Norman Road followed by a single-family residences, two vacant lots, a residence/commercial office, pallet supply business, and Kohl's Department Store distribution center	Agricultural, Residential, Industrial/Commercial	No
South	East Orange Show Road and the Santa Ana River, followed by vacant lots, a truck yard, a residence/commercial office, and an Amazon distribution warehouse	Agricultural, Residential, Industrial/Commercial	No
East	Truck yard to the northeast and the Santa Ana River to the southeast	Agricultural, Residential, Industrial/Commercial	No
West	Lena Road followed by Lean Supply Solutions logistics warehouse	Agricultural, Residential, Industrial/Commercial	No

Note 1: Observations from Geosyntec's site visit.

The adjoining properties were briefly inspected during the site reconnaissance (from vantage point of the Site or public rights-of-way) to observe the associated land use practices (e.g., condition, housekeeping, evidence of chemical usage/spills). Observations made for the adjoining sites are described later in this report (Section 5).

2.5 Physical Setting

A summary of the physical setting of the Site and vicinity including topography, geology/ hydrogeology, and water resources is presented in **Table 4**. Environmental Data Resources (EDR) provided Geosyntec with a Summary Radius Map Report (RMR) for the area including the Site which serves as a source of certain information. Other sources of information in **Table 4** are noted accordingly.

Table 4. Physical Setting

Topic	Information	Source
Topography		
USGS 7.5-Minute Quadrangle Map	San Bernardino South, CA	U.S. Geological Survey (USGS)
Elevation	1,037 feet above mean sea level (ft MSL)	EDR RMR
General Topographic Gradient	There is a slight topographic slope to the southwest.	USGS Quadrangle Map and Site Reconnaissance
Soils & Geology		
Site Soils	The Site is underlain by excessively drained sands and gravels with gravelly loamy sand and high infiltration rates.	EDR RMR
Area Geology	The Site vicinity is underlain by Cenozoic-aged deposits of axial valley floors.	EDR RMR; Geologic Map of the San Bernardino and Santa Ana Quadrangles, Morton, 2006
Water Resources		
Nearest Water Body	The Santa Ana River adjoins the southeast portion of the Site.	US Fish & Wildlife Wetland Map, EDR RMR and USGS Quadrangle Map
Estimated Groundwater Flow Direction[3]	Geosyntec projects the shallow groundwater flow in proximity to the Site to be to the southwest along the path of the Santa Ana River, generally following the slope of the ground surface.	EDR RMR
Depth of Groundwater	Based on data available from May 2022 at a USGS well located within 1/2-mile to the northeast of the Site, depth to groundwater is approximately 193.24 ft below ground surface (bgs).	USGS, 2022
Wetlands (on-site)	No wetlands were identified on the Site. Wetlands associated with riverine habitat along the Santa Ana River were identified approximately 820 ft south of the Site	NWI, US Fish & Wildlife Wetland Map. EDR RMR
Wells (on-site)	No wells were identified on the Site.	EDR RMR & Site Reconnaissance (see Section 5)

[3] Local groundwater flow direction may vary depending on area groundwater pumping, surface water bodies, land use and development, localized topography, and other macro and micro features.

Table 4. Physical Setting

Topic	Information	Source
Nearby[4] Groundwater Supply and Monitoring Wells	• 23 wells were identified in the federal USGS well database within ½ mile of the Site. • 57 wells were identified in the state well database within ½ mile of the Site. • Trichloroethylene, 1,1,2-Trichloro-1,2,2 Trifluoroethane, 1,1-Dichloroethylene, N-nitrosodimethylamine (NDMA), and uranium were detected at City of Riverside municipal wells over 0.5-mile southwest, hydraulically downgradient from the Site between 2012 and 2018.	EDR RMR

[4] EDR searched federal and state water well databases within one mile of the Site boundary.

3. USER-PROVIDED INFORMATION

This section describes the information provided to Geosyntec by Hillwood Enterprises (the User of this Phase I ESA). This includes information that was provided in the User Questionnaire (**Appendix C**).

3.1 Title Records

Geosyntec was not provided with and did not review title records for the Site. A property title search was not included in the scope of Geosyntec's services.

3.2 Environmental Liens or Activity and Use Limitations

The User did not supply Geosyntec with information regarding environmental liens or activity and land use limitations associated with the Site property.

3.3 Specialized Knowledge

The User indicated that it does not have specialized knowledge of environmental conditions at the Site.

3.4 Knowledge of Hazardous Substances or Petroleum Products

The User is not aware of any hazardous substances or petroleum products in, on, or under the Site.

3.5 Commonly Known or Reasonably Ascertainable Information

The User is not aware of any commonly known or reasonably ascertainable information within the local community about the Site that is material to RECs in connection with the Site.

3.6 Valuation Reduction for Environmental Issues

The User has not informed Geosyntec regarding whether or not the valuation of the Site has been reduced or otherwise impacted by environmental issues (as defined in AAI[5]). at the Site.

3.7 Degree of Obviousness

The User has considered the degree of obviousness of the presence or likely presence of releases or threatened releases at the Site and the ability to detect releases or threatened releases by appropriate investigation. The User has not observed any conditions indicating the presence or likely presence of releases or threatened releases at the Site.

[5] The "All Appropriate Inquiry Rule", enacted under the 2002 Brownfields Amendments to the Comprehensive Environmental Response, Compensation, and Liability Act; 40 CFR 312

3.8 Litigation, Administrative Proceedings, and Notices

The User is not aware of (i) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site; (ii) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Site; or (iii) any notices from any governmental entity regarding any possible violations of environmental laws or possible liability relating to hazardous substances or petroleum products.

3.9 Reason for Performing This Phase I ESA

Geosyntec understands that Hillwood Enterprises engaged Geosyntec to perform this Phase I ESA for the Site to identify RECs (as defined in ASTM E1527-13) in order to help identify potential environmental liabilities associated with the Site.

3.10 Pertinent Documents

The User did not provide additional documents.

4. RECORDS REVIEW

Geosyntec reviewed the following records, to the extent we found these to be available and reasonably ascertainable:

- Federal, state, and local environmental databases
- Historical aerial photographs
- Historical topographic maps
- Fire insurance maps
- City directories
- Local authority permits and records
- Available property tax information

In addition to the standard sources above, Geosyntec reviewed environmental files obtained from regulatory agencies.

4.1 Standard Environmental Records Sources

4.1.1 Database Search Approach

Geosyntec contracted EDR to provide the records reviewed as described below. EDR conducted the environmental database search in an attempt to ascertain whether the Site or neighboring properties were suspected of having environmental conditions that could have impacted the surface or subsurface at the Site. EDR reported specific records and search distances (from the approximate Site boundaries) for the environmental databases to be consistent with ASTM Practice E 1527-13 and are discussed in the EDR Database Report (EDR, 2022) presented in **Appendix B**. Database descriptions are included in the EDR report.

The following sections discuss listings that are projected to be located upgradient of the Site and have reported (or suspected) contamination or that have the potential for significant contamination that could have impacted the Site (such as National Priorities List [NPL] or Resource Conservation and Recovery Act [RCRA] Corrective Action sites). The locations of these listed sites are shown on the Overview Map and Detail Map in the EDR Database Report (**Appendix B**).

4.1.2 Database Search Results – Site

EDR identified two database listings for the Site. These databases and associated listing are as follows:

- The Site address 787 Norman Road was listed in the Clandestine Drug Lab (CDL) database in 2003 for an operational illegal drug lab where drug equipment and materials were stored. No other information was available.

- Bernell Payton Truck was listed at 745 E Norman Road in the Facility Index System/Facility Registry System (FINDS), Enforcement & Compliance History Information (ECHO) and Resource Conservation and Recovery Act - Non Generators / No Longer Regulated (RCRA NonGen/NLR) databases as an active RCRA site for hazardous waste activities under the NAIC code for petroleum lubricating oil and grease manufacturing. No violations were reported.

4.1.3 Database Search Results – Vicinity Properties

The search of environmental databases identified 40 site listings for properties within 1-mile of the Site, some of which were in databases indicative of releases, solid waste disposal, or land use concerns. Pertinent listings are discussed below:

- North San Bernardino Area, Bunker Hill Groundwater Basin located approximately 2,005 feet north-northwest (hydraulically up to cross-gradient) in the City of San Bernardino, was listed in DTSC's EnviroStor and State Response Sites (RESPONSE) databases. In 1986, the DTSC and City of San Bernardino entered into an agreement which included use of groundwater treatment systems for treatment of a PCE and TCE groundwater contaminant plume. Groundwater flow within the Bunker Hill Area is variable and affected by local faults. This property is further discussed in Section 4.3.4.

- USAF Norton AFB located approximately 0.75 miles north at 305 South Tippecanoe Avenue is listed on the National Priorities List (NPL), Superfund Enterprise Management System (SEMS), Corrective Action Report (CORRACTS), RCRA-SQG, RCRA - Treatment, Storage and Disposal (RCRA-TSDF), Engineering Controls Sites List (US ENG CONTROLS), Institutional Controls Sites List (US INST CONTROLS), and Records Of Decision (ROD) databases. Groundwater flow within the area of the AFB is toward the southwest, based on groundwater monitoring well data collected in 2017. The boundary of the former NAFB covers 2,036 acres. Operations at the NAFB began in 1942 and included aircraft maintenance and repair, and later expanded to include maintenance, storage, and logistics support of missiles. This property is further discussed in Section 4.3.4.

Details of the sites are summarized in the EDR Database Report (**Appendix B**).

4.1.4 Unplottable Sites

EDR did not identify any "unplottable" sites.

4.2 Historical Use Information

Geosyntec contracted EDR to provide standard historical records, including aerial photographs, topographic maps, city directories, and fire insurance maps (EDR, 2021a-e). The sections below identify and summarize the historical information sources reviewed for the Site and vicinity. A summary of the findings from the review of the historical sources is provided in **Table 5**. Copies of the historical records reports are included in **Appendix B**.

4.2.1 Historic Aerial Photographs

EDR provided aerial photographs from 1930, 1938, 1949, 1953, 1959, 1966, 1968, 1975, 1985, 1989, 1994, 2002, 2006, 2009, 2012, and 2016.

Geosyntec reviewed aerial photographs available on Google Earth from 1985, 1994, 2002, 2003, 2004, 2005, 2006, 2007, 2009, 2011, 2012, 2013, 2014, 2016, 2018, 2019, 2020, and 2021.

4.2.2 Historical Topographic Maps

EDR supplied portions of USGS topographical maps of the Site and vicinity for 1896, 1898, 1899, 1901, 1938, 1942, 1943, 1954, 1967, 1973, 1975, 1980, 2012, 2015, and 2018.

4.2.3 City Directories

Available business directories, including cross reference and telephone directories, were reviewed for 634-867 and 24478 of East Norman Road and 520-788 East Orange Show Road for 1955, 1975, 1981, 1991, 1994, 1996, 1999, 2003, 2004, 2008, 2009, 2014, and 2017.

4.2.4 Fire Insurance Maps

Based on EDR's search of fire insurance maps, there was no coverage for the Site.

4.2.5 Property Tax Files

Geosyntec researched publicly available online tax records through San Bernardino County Assessor records. The information retrieved included property boundary information, property owner, and property size. The Site is presently owned by various individuals and entities including Assetts Corp of America Inc., DHA Opportunity I LP, Dwyne A. Gleason, Ernesto Quintero, Espiridion Gonzalez, Felipe J. Donis, Fernando Hernandez, Francisco Gonzalez, Geerlings Equipment Rental Inc., Jovita Morga, Lauro Properties LLC, Maria T. Mejia Navarro, Michael Lee Johnston, Mohammed Ali Ahmed Ali, Norman Road Investments LLC, Oscar Patino, Payton B. and Latonia Living Trust 12, Rubi Do, Steven D. Arrietta, Swazey Quintero, Thomas Williams, and William Spencer Carey. The retrieved tax map parcel information is provided in **Appendix A.**

Table 5. Historical Records Review

Aerial Photographs	Topographic Maps	City Directory (CD)	Fire Insurance Maps
Site: In 1930, the Site appeared to be fallow agricultural land or vacant land. A single dwelling was developed in the northwest portion of the Site. By 1938, row crops/orchards were visible surrounding the dwelling in the northwest portion of the Site. By 1949, residential development was visible throughout the Site, particularly along East Norman Road, and in the central, southern portion of the Site. The remainder of the Site appeared to be vacant land. Between 1953 and 1994, various residential structures were demolished and redeveloped. In 1989, truck and/or storage yards were visible in the backyard of several residential properties, particularly in the central portion of the Site. Additional storage and trailer parking yards were visible throughout the Site during the early 2000s. Residential properties remained in the northeast, southwest and central, northern portions of the Site. No significant changes were visible at the Site through the present. **Vicinity**: From 1930 to 1938 the Site vicinity was primarily undeveloped land to the south and agricultural land to the north, east and west. The Santa Ana River was present to the southeast of the Site. By 1938, dirt roads were visible in the approximate position of East Norman Road and East Orange Show Road to the north and south, respectively. In 1949, areas to the north, west, southwest, and northeast of the Site were developed for residential use. Between 1949 and 1989, the vicinity appeared to transition to a mix	**Site**: From 1896 through 1938, the Site remained vacant and undeveloped. By 1942, a small structure was developed in the central portion of the Site. By 1954, multiple structures were developed along Norman Road throughout the north portion of the Site and along Orange Show Road in the south, central portion of the Site. A road was developed through the center of the Site running north-south. By 1967, increased development was depicted in the southwest corner of the Site. The Site conditions were relatively unchanged from 1973 through 1980. Between 2012 and 2018, no roads or structures were depicted at the Site. **Vicinity**: From 1896 to 1901, adjoining properties were depicted as vacant land. The Santa Ana River flows northeast to southwest and was depicted southeast of the Site. Multiple rail lines and roads were depicted in the vicinity of the Site. Roads in the approximate position of East Norman Road and East Orange Show Road were first depicted in 1938 running adjacent to the northern and southern borders of the Site. In 1938, two small structures were depicted at the south adjoining property. In 1943, vegetation areas along the Santa Ana	**Site**: Several Site addresses on Norman Road and Orange Show Road were searched by EDR. Site addresses on Pioneer Avenue were not listed. 652 E Orange Show Road: Residential/property owner listings (1999 to 2017). 668 E Orange Show Road: Residential/property owner listings (2003 to 2004), and Payton Brothers Equipment Rental (2004). 684 E Orange Show Road: Residential/property owner listings (2003 to 2004), and Caddel Engineering (2003-2008). 695 E Norman Road: Residential/property owner listings (1999 to 2014). 706 E Orange Show Road: Residential/property owner listings (1999 to 2017). 707 E Norman Road: Residential/property owner listings (1999 to 2017). 715 E Norman Road: Residential/property owner listings (2008 to 2017).	According to EDR, no fire insurance maps were available for the Site or adjoining properties.

Table 5. Historical Records Review

Aerial Photographs	Topographic Maps	City Directory (CD)	Fire Insurance Maps
of residential and commercial use. By 2002, adjoining properties to the northeast were developed as commercial storage yards. In 2009, two industrial warehouses were constructed north of the Site. Between 2016 and 2018, industrial warehouses were developed to the southwest and west of the Site. The Site vicinity remained unchanged through 2021.	River were depicted to the south and southeast. By 1954, numerous small structures were developed at adjoining properties and the Norton Air Force Base/San Bernardino Airport was constructed approximately 1 mile northeast of the Site. Sandbanks and vegetation were depicted along the Santa Ana River. No significant changes were depicted at adjoining properties through 1980. Between 2012 and 2018, the Site vicinity was depicted in a developed area, however, no buildings or property use details are provided. Multiple water wells were depicted along the Santa Ana River to the northeast and southwest.	755 E Norman Road: Residential/property owner listings (1955, 2014 to 2017). 787 E Norman Road: Residential/property owner listings (1975 to 2017), and a sports bar & grill (2004). 807 E Norman Road: Residential/property owner listings (1975 to 2008). 867 E Norman Road: Residential/property owner listings (1975 to 1981, 2008). **Vicinity**: Adjoining properties were identified from approximately 1955 to 2017 under various addresses from approximately 634 through 867 East Norman Road, 646 to 755 East Orange Show Road, and 624 to 787 East Pioneer Road. The adjoining properties were primarily listed under residential and/or property owner names. Commercial listings included Sharon's Loving Care Service at 684 Pioneer Road (1994-1999) and Riverside Design & Construction at 715 Pioneer Road (1994-1999).	

Table 5. Historical Records Review

Aerial Photographs	Topographic Maps	City Directory (CD)	Fire Insurance Maps
In summary, the review of aerial photographs, topographic maps, and city directories revealed usages (including agricultural, commercial, and railroad tracks) that could be indicative of hazardous materials or chemical storage, management, usage, or disposal at the Site or in the vicinity that could pose a threat to the surface or subsurface quality at the Site. However, in this review, Geosyntec noted no definitive features showing chemical management, chemical spills, or evidence of waste disposal on or into the ground at the Site. Our opinions on the nature of the historical features of the Site and the surrounding area are included in Section 7 of this report.			

4.3 Local, County, State, and Federal Files

Geosyntec contracted with Environmental Support Services (ESS) to submit record requests to the following agencies: San Bernardino County Fire Department, City of San Bernardino Fire Department, Cal Fire – Office of the State Fire Marshall, Department of Toxic Substances Control (DTSC) – Cypress Office, DTSC – Chatsworth Office, City of San Bernardino Department of Public Works, City of San Bernardino Building Department, South Coast Air Quality Management District (SCAQMD), and the Regional Water Quality Control Board (RWQCB) – Santa Ana Region.

Relevant information is summarized below. Excerpts of relevant regulatory agency documents are presented in **Appendix D**.

4.3.1 Local Fire Department Records

ESS submitted a request for records to the City of San Bernardino Fire Department, who informed ESS that the San Bernardino County Fire Department is the lead agency for sites in the City of San Bernardino.

ESS submitted a request for records to the San Bernardino County Fire Department; no records were on-file for the Site.

4.3.2 City or County Records

ESS requested building permits and certificates of occupancy issued by the City of San Bernardino Building Department. Pertinent records identified for the Site addresses 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 648, 652, 668, 706 and 788 East Orange Show Road. Numerous permits for tenant improvements at residential houses and utility services were on-file. The following information was obtained:

- Installation of a repair garage canopy at 24656 Norman Road in 1976. The 24656 Norman Road address appears to be a historical address for the Site, however, the address plots at the corner of Norman Road and Leana Road on Google Maps.
- In 1988, the dwelling at 823 Norman Road was demolished.
- Several records were on-file associated an auto repair/junk yard at the east adjoining property (895 East Norman, historical address identified as 878 Norman Road).

ESS requested records for industrial waste discharge permits or violations from the City of San Bernardino Department of Public Works. The Public Works Department requested an extension to fulfill the record request. If records become available that change the conclusions to this report, Geosyntec will submit an addendum. No records were identified for the addresses 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino.

ESS requested records from the SCAQMD; no records were on-file for the addresses 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24432 and 24512 Pioneer Avenue and 648, 652, 668, 706, and 788 East Orange Show Road. The SCAQMD provided an Equipment List Report for Pacwest Engineering Company. The Equipment List Report reported the address at "various locations in SCAQMD, San Bernardino". Geosyntec reviewed online records for Pacwest Engineering Company which identified the address at 684 East Orange Show Road. A violation was issued in 2017 for failure to label registered equipment for a milling machine.

4.3.3 State Records

Geosyntec reviewed the California Geologic Energy Management Division's (CalGEM) online mapping system[6] for information pertaining to oil and gas wells on the Site or vicinity. No wells were identified on the Site or within a 1-mile radius of the Site.

ESS requested records from the DTSC Cypress and Chatsworth offices. No records were identified for the Site at the Cypress office. The DTSC Chatsworth office indicated that the DTSC responded to a drug lab cleanup at 787 Norman Road in 2003. Hazardous waste removed from the Site included 10 ounces of base solid, 1 gallon of acid, 2 gallons of flammable liquids, and one 55-gallon drum of laboratory trash. No soil contamination was observed by the DTSC. No records were identified for the remaining Site addresses.

ESS requested records from Cal Fire regarding hazardous materials use, investigations, underground tanks, pipelines, releases and/or violations related to the Site. Records were identified for the 2003 drug lab cleanup at 787 Norman Road, which indicated hazardous materials were removed by a cleanup crew. No records were identified for the remaining Site addresses.

ESS requested records from the RWQCB – Santa Ana Region. No records were identified for the Site.

Geosyntec searched the GeoTracker[7] and EnviroStor[8] online databases for information relevant to the environmental condition of the Site and vicinity properties.

The Norton Air Force Base Building S-21 was identified within ¼-mile west of the Site as having soil potentially contaminated with heating and fuel oil. The case was closed as of 7 February 1991. Frank's Fence was identified within ½-mile west of the Site. The aquifer used for drinking water supply at the property was potentially contaminated with gasoline. The case was closed as of 20 November 1998. Valley Gas and Auto Repair was identified within ½-mile west of the Site for soil potentially contaminated with gasoline. The case was closed as of 4 January 2001. Orbit Stations, Inc. was identified within ½-mile northeast of the Site for soil potentially contaminated

[6] https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6
[7] https://geotracker.waterboards.ca.gov/
[8] https://www.envirostor.dtsc.ca.gov/public/

with gasoline. The case was closed as of 20 February 1990. Based on the nature of these listings, it is believed to be unlikely that activities at these properties adversely affect the Site.

4.3.4 Federal Records

The Site was identified in the USEPA Enforcement and Compliance History Online (ECHO)[9] database as Bernell Payton Trucking at 745 East Norman Road, where it is currently registered as a RCRA site (#CAL000289584) for petroleum lubricating oil and grease manufacturing. No violations have been reported. No records were identified for the remaining Site addresses. The adjoining property to the southwest, Goldenstate FC LLC SNA7 at 555 East Orange Show Road, was reported for a terminated stormwater permit.

Geosyntec reviewed the USEPA NPL[10] database. The Norton Air Force Base (NAFB) is located approximately 0.75 miles north of the Site and is included in the NPL database. The NAFB operated from 1942 to 1994 and comprised the airfield, residential, recreational, light industrial, maintenance facilities, warehouses, and administrative centers. The airfield runways and various support facilities are currently operated by the San Bernardino International Airport Authority. Operations at the former NAFB included aircraft and missile maintenance and repair services. Within the former NAFB, 73 environmental areas of concern (AOCs), 21 Installation Restoration Program (IRP) sites, and various remediation sites have been documented. The IRP sites and AOCs have been issued a No Further Action designation under the Basewide OU Record of Decision (ROD), with the exception of seven areas under investigation including IRP sites, AOCs, and a small arms range. The closest area under investigation is IRP Site 17, located approximately 0.9 miles northwest of the Site. IRP Site 17 comprises two sumps used in 1960 to 1961 for the purpose of burning waste fuel and solvent and by 1961 was used exclusively as holding tanks for the Industrial Waste Treatment Plant and as an oil/water separator. Solvent and plating waste drum storage was located within Site 17. The sumps were removed in 2003. Multiple investigations and two remedial excavation events were performed to remove VOC-impacted soil through 2017. Due to residual soil vapor intrusion risk, deed restrictions were implemented for Site 17. Based on the distance of the closest open investigation area to the Site, lack of groundwater contamination, and ongoing remediation and assessment under oversight by the EPA, this property is considered unlikely to have impacted the Site.

North San Bernardino Area / Newmark Groundwater Contamination Superfund Site encompasses 23 square miles within the Bunker Hill Basin in San Bernardino. Three Operable Units (OUs) have been identified to address groundwater contamination: Source, Newark and Muscoy. Two OUs (Newark and Muscoy) were issued a Final Record of Decision in 2015 and operations and maintenance of extraction wells, monitoring wells, and institutional controls have been ongoing since 2005. Primary groundwater contaminants include tetrachloroethylene (PCE) and

[9] Enforcement and Compliance History Online | US EPA

[10] https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cebcdfdd1b4c3a8b51d416956c41f1

trichloroethylene (TCE). According to the recent Five-Year Review Report prepared in 2018, investigation of the Source OU is ongoing. Contaminant plume maps for PCE in the shallow aquifer indicate that the isoconcentration for PCE at 0.5 micrograms/liter (µg/L) is located approximately 2.5 miles northwest of the Site and the isoconcentration line of 5.0 µg/L (equal to the PCE Maximum Contaminant Level) is located approximately 3.75 miles northwest of the Site. Based on the distance of the contaminant plume from the Site and ongoing remediation and assessment under oversight by the EPA, this property is considered unlikely to have impacted the Site.

Geosyntec reviewed the Air Force Civil Engineer Center website[11] and Base Realignment and Closure Site website[12]. Site inspections, monitoring plans and reports, and closure documents were identified for NAFB. The Site met EPA Sitewide Ready for Anticipated Use criteria in 2007. Most of the former base is in active reuse and is currently managed by the San Bernardino International Airport Authority and Inland Valley Development Agency.

4.4 Other Documents Reviewed

The user did not provide environmental reports for the Site.

[11] https://ar.afcec-cloud.af.mil/Search.aspx
[12] https://www.epa.gov/fedfac/base-realignment-and-closure-brac-sites-state

5. SITE RECONNAISSANCE

A reconnaissance of the Site was conducted on 09 May 2022 and 05 August 2022 in accordance to the information provided in **Table 1**. Geosyntec conducted the site reconnaissance at the majority of the Site properties unescorted. Photographs taken during the reconnaissance are included in **Appendix E**. Adjoining properties were observed from their perimeters.

As part of the reconnaissance, Geosyntec looked for evidence of hazardous substances used, stored, or discarded and inspected the Site for areas of disturbed or discolored soil, suspect equipment, and building materials that may contain hazardous substances; areas of distressed vegetation; wastewater discharge areas; storage tanks/septic systems; waste management and disposal areas; lagoons; pits; sumps; surface water management areas; and stained surfaces.

5.1 Utility Service and Materials Management Provider Information

The utility service and materials management providers and practices at the Site are summarized (**Table 6**) from information supplied during Geosyntec's site reconnaissance.

5.2 Interior and Exterior Observations

Observations made during the site reconnaissance for the Site are documented in **Table 7**.

5.3 Adjoining Property Reconnaissance

During the site reconnaissance, Geosyntec observed the adjoining properties from the Site or public vantage points in an attempt to identify possible sources of obvious environmental impairment that could affect soil and groundwater quality at or result in vapor migration into the Site as a result of surface water runoff, groundwater transport, or similar pathways. Geosyntec saw no obvious evidence of chemical storage or releases to the ground at adjoining properties.

Table 6. Site Utilities and Materials Management

Utility Service/Materials Management	Service Provider
Electricity	Southern California Edison
Natural Gas	Southern California Gas Company
Sanitary wastewater disposal	Septic systems were observed at four residential properties during the Site reconnaissance
Industrial wastewater disposal	None identified
Drinking water supply	City of San Bernardino / East Valley Water District
Irrigation water supply	City of San Bernardino / East Valley Water District
Stormwater disposal	Stormwater flows to unpaved, low-lying areas on-site. No stormwater management system was observed.
Solid (non-hazardous) waste disposal	Waste Management
Hazardous waste disposal	Burrtec Waste Industries
Universal waste	Not identified

Table 7. Interior and Exterior Observations

ASTM Section	Feature or Condition	Description
Interior and Exterior Observations		
9.4.2.3	General Usage of Hazardous Substances and Petroleum Products	Three areas of the Site were used for periodic vehicle maintenance activities, including: Geerlings Equipment Rental at 867 Norman Road and two vehicle maintenance/storage yards (788 Orange Show Road and APN: 0280-192-205). Hazardous materials storage throughout the Site are not properly managed and containers were largely stored and/or discarded in unsurfaced areas throughout the Site. • Hazardous materials used at the Geerlings Equipment Rental facility included diesel engine oil, hydraulic fluid, mineral spirits, and tractor fluid. • Transmission fluid and diesel engine oil were used at the vehicle maintenance yard at the APN: 0280-192-05 property. • Used oil was observed at the vehicle maintenance yard at 788 Orange Show Road. • New motor oil were stored in the residential yard at 24432 Pioneer Avenue. • Five empty drums were stored at the APN: 0280-172-17 and 0280-172-21 properties.
9.4.2.4	Aboveground Storage Tanks (ASTs)	One AST stored on a trailer was observed in the northwestern portion of the Site. The AST was unlabeled, and it was not ascertainable whether residual product remained in the tank. A concrete storage tank stored on a trailer is located on the east portion of the APN: 0280-172-21 property.
9.4.2.4	Underground Storage Tanks (USTs)	No evidence of USTs was observed during Geosyntec's Site visit.
9.4.2.5	Odors	No notable odors were identified during the site visit.

Table 7. Interior and Exterior Observations

ASTM Section	Feature or Condition	Description
9.4.2.6	Pools of Liquids	No pools of liquids were observed at the Site.
9.4.2.7	Drums ≥ 5 Gallons	Two 55-gallon drums of diesel engine oil are stored at the Geerlings Equipment Rental facility. Several drums labeled as containing fruit filling were observed at the Site.
9.4.2.8	Hazardous Substances and Petroleum Products Containers	• Hazardous materials use/storage at the Geerlings Equipment Rental facility included several 5-gallon containers of diesel motor oil, hydraulic oil, mineral spirits, and tractor fluid, and two 55-gallon drums of diesel engine oil. These materials were observed near heavy equipment and were not stored on secondary containment. • Four five-gallon containers of transmission fluid and diesel engine oil were observed beneath a canopy in the vehicle maintenance yard at the APN: 0280-192-05 property. • A 5-gallon used oil can was observed at the vehicle maintenance yard at 788 Orange Show Road. • Numerous containers of petroleum products were observed to be stored or discarded at three adjoining properties in the central portion of the Site (755 and 787 Norman Road and APN: 0280-192-05). Gasoline, oil, antifreeze, transmission fluid, diesel exhaust fluid, gas cylinders, paint, paint thinner, cement additives, roof coating, and racing fuel containers ranged in size from 1 to 5 gallons. • Two one-gallon containers of new motor oil were stored in the residential yard at 24432 Pioneer Avenue.

Table 7. Interior and Exterior Observations

ASTM Section	Feature or Condition	Description
9.4.2.9	Unidentified Substances/Containers	• Approximately seven unlabeled drums and four discarded ASTs (approximately 50 to 100-gallons in size) were stored in the central area of the Site. • Two unlabeled and empty drums in fair condition were stored at the APN: 0280-172-21 property. • Three empty drums were stored at the APN: 0280-172-17 property. One drum was labeled in handwriting as concrete remover.
9.4.2.10	Indication of PCBs	Pole-mounted utility-owned transformers were observed along the overhead electrical distribution lines at East Norman Road. The age and PCB content (if any) of the transformers were not reported, and PCB labels were not observed on the transformers. No indications of spills or releases were observed in the area of the transformers.
Interior Observations		
9.4.3.1	Heating and Cooling Systems	Air conditioning units were observed at the modular office and manufactured office building at 867 Norman Road.
9.4.3.2	Stains/Corrosion	Geosyntec was not provided access to the interior of residential structures or office buildings at 807 and 867 Norman Road.
9.4.3.3	Drains and Sumps	No drains or sumps were during Geosyntec's Site visit.
Exterior Observations		
9.4.4.1	Pits, Ponds, or Lagoons	No pits, ponds, or lagoons were observed.
9.4.4.2	Stained Soil or Pavement	Minor to moderate petroleum-stains were observed on gravel or asphalt surfaces throughout the Site.

Table 7. Interior and Exterior Observations

ASTM Section	Feature or Condition	Description
9.4.4.3	Stressed Vegetation	No obviously stressed vegetation indicative of a chemical discharge or application was observed at the Site.
9.4.4.4	Solid Waste	Vehicle parts, tires, piping, ASTs, lumber, furniture, compressors, building materials, and other miscellaneous debris was observed, particularly in the central portion of the Site (755 and 787 Norman Road and APN: 0280-192-05). Piles of tree branches and tree trunks were observed in the yard at 707 Norman Road and in the north portion of vacant yards in the southwest portion of the Site (24512 Pioneer and APNs: 0280-192-12 and 0280-192-13). Several aggregate piles of fill dirt and broken concrete were observed in a vacant lot at 823 Norman Road, in the southeast of the Site. General refuse and debris were identified in numerous areas across the Site.
9.4.4.5	Wastewater and Stormwater Discharge	Stormwater appears to run off-site via overland flow or infiltrate through unpaved areas of the Site.
9.4.4.6	Wells	No supply or groundwater monitoring wells were observed on-site.
9.4.4.7	Septic Systems	Geosyntec observed an aboveground septic tank located on the 707 Norman Road residential property. In addition, manhole covers associated with an underground septic tank were observed at the 755 Norman Road residential property.

6. LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

6.1 Soil Sampling

On 08 July 2022 and 05 August 2022, Geosyntec conducted an investigation to evaluate the presence of COCs in soil. Geosyntec collected a total of five soil samples using hand auger methods from areas at the property with visibly impacted soil (HA-1 through HA-4 and HA-4-220805) (Figure 4). Composite soil samples were collected from the surface to 2 feet bgs.

On 08 July 2022, Geosyntec collected four composite soil samples (SP1-S, SP2-E, SP3-N, and SP4-W) from aggregate piles of fill dirt stored at the 823 Norman Road facility. Soil samples were collected from a depth of approximately 0.5 to 1.0 feet from the top of the fill dirt pile using hand tools.

Hand tools were decontaminated between samples using a three-bucket rinse method. The soil samples were stored in a cooler with ice and released under standard chain of custody protocol to Enthalpy Analytical (Enthalpy) of Orange, California. Soil samples collected at areas of visibly impacted soil were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015M and volatile organic compounds (VOCs) by EPA Method 8260. Analytical analysis of fill dirt samples included TPH by EPA Method 8015M, Title 22 Metals by EPA Method 6010B/7174A, polychlorinated biphenyls (PCBs) by EPA Method 8082A, and organochlorine pesticides by EPA Method 8081.

6.2 Soil Vapor Sampling

On 08 July 2022, Optimal Technology (Optimal) installed 13 temporary soil vapor probes (SV-1 through SV-13) by hydraulically driving a 1-inch diameter soil vapor probe with a vapor tip to a depth of approximately 5 feet bgs (Figure 4). Soil vapor probes were purged prior to sample collection. Vapor samples were collected using an electric vacuum pump at a rate of 0.2 liters per minute (L/min), obtained within gas-tight syringes, and injected into the gas chromatograph immediately after collection. All samples were analyzed on-Site using Optimal's mobile laboratory for volatile organic compounds (VOCs) by EPA Method 8260.

6.3 Soil Sampling Results

Laboratory analytical reports are provided in Appendix E. Analytical results were compared to the California Department of Toxic Substance Control (DTSC), Human and Ecological Risk Office Note 3 Screening Levels (SLs) and Environmental Protection Agency (EPA) Regional Screening Levels (RSLs), where applicable. The results for TPH were compared to San Francisco Regional Water Quality Control Board (SF-RWQCB) Environmental Screening Levels (ESLs). The following summarizes the results of the field sample detections compared to applicable screening levels:

Soil samples collected from visibly impacted soil (HA-1 through HA-5 and HA4-220805) detected TPH above laboratory reporting limits in the diesel range (C_{10}-C_{28}) and motor oil range (C_{28}-C_{44}). The detected concentrations were below the commercial ESLs for TPH motor oil of 180,000 milligrams per kilogram (mg/kg). Two soil samples (HA-4-220805 and HA-3) contained TPH diesel at 2,300 mg/kg and 13,000 mg/kg, which exceeded the commercial ESL of 1,200 mg/kg. VOCs were not detected above laboratory reporting limits.

Soil samples collected from undocumented fill detected various metals, and TPH in the diesel and motor oil range above laboratory reporting limits; however, all concentrations were below their respective commercial RSLs for soil. PCBs and organochlorine pesticides were not detected above laboratory reporting limits.

6.4 Soil Vapor Sampling Results

Laboratory analytical reports are provided in Appendix F. In accordance with current regulatory guidelines, a conservative attenuation factor of 0.03 was applied to the maximum detected VOC concentrations in soil vapor at the Site to develop a theoretical indoor air concentration. The attenuated concentration was then compared to the DTSC-modified screening levels (DTSC-SL) for commercial/industrial indoor air (DTSC, 2020). One sample contained an adjusted soil vapor concentration of 1.62 micrograms per cubic meter (µg/m^3) of PCE using the 0.03 attenuation factor. The adjusted soil vapor concentration of PCE did not exceed the DTSC-SL of 2.0 µg/m^3. No other VOCs were detected above the laboratory reporting limit.

6.5 Hot Spot Excavation

On 05 August 2022, NRC (a US Ecology company) performed an excavation of documented TPH diesel-impacted soil at the 867 East Norman Road facility near soil sample HA-3. Excavation activities were performed by NRC using a backhoe. The approximate dimensions of the excavation were 10 ft x 10 ft x 3 ft deep (approximately 11 cubic yards). Geosyntec screened the soil for organic vapors using a photoionization detector (PID) during excavation per SCAQMD Rule 1166. Geosyntec submitted the appropriate notification to the SCAQMD. Results from the PID field screening confirmed concentrations of total VOCs (TVOCs) were less than 50 parts per million (ppm), below the concentration that the SCAQMD would consider soils to be "VOC-contaminated."

Following completion of the excavation, soil samples were collected from approximately 1.5 feet bgs from the north (EX-N-220805), south (EX-S-220805), east (EX-E-220805), and western (EX-W-220805) walls of the excavation, as well as a composite sample (EX-220805) from the bottom of the excavation. The soil samples were submitted to Enthalpy lab for diesel-range organics (DRO) analysis.

TPH was detected in confirmation samples above laboratory reporting limits in the diesel range. The detected concentrations were below the commercial ESLs for TPH diesel of 1,200 mg/kg. The analytical data from the confirmation samples supports that diesel-impacted soil was sufficiently removed.

7. INTERVIEWS

7.1 Interview with Current Owner/Occupant

During the 09 May 2022 reconnaissance of the Site, Geosyntec conducted verbal interviews with the managers of the Geerlings Heavy Equipment Rental and American Tow Group. Information obtained from this interview is included in this report.

7.2 Interview with Previous Owner/Occupant

Geosyntec requested but was not provided with contact information for previous owners/operators of the Site Interviews with prior owners and occupants were not conducted as part of this assessment. This is considered a data gap (see Section 8.2).

7.3 Interview with User

Geosyntec requested the User complete a User Questionnaire, however, the questionnaire was not returned as of the publication date of this report.

7.4 Interview with Local Agencies

Geosyntec contacted local, county, and state agencies via telephone or electronic mail inquiring whether they possessed relevant records regarding the Site, as discussed in Section 4.3.

8. FINDINGS AND CONCLUSIONS

Geosyntec has conducted a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the Site located between East Norman Road and East Orange Show Road in San Bernardino, California. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

Following the Findings and Opinions section (Section 7.1), we present identified data gaps and conclusions (Sections 7.2 and 7.3) regarding any identified RECs, Controlled (CRECs), Historical RECs (HRECs), or de *minimis conditions* associated with the Site.

8.1 Findings and Opinions

This assessment has revealed no evidence of RECs, CRECs or HRECs in connection with the Site. This assessment has revealed evidence of *de minimis* conditions in connection with the Site. Each identified condition is described below.

Recognized Environmental Conditions (RECs)

As defined by ASTM E1527-13, a recognized environmental condition is: *"the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."*

- No RECs were identified during this Phase I ESA.

Controlled Recognized Environmental Conditions

A CREC is "*a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)*."

- No CRECs were identified during this Phase I ESA.

Historical Recognized Environmental Conditions

An HREC is "*a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).*"

- No HRECs were identified during this Phase I ESA.

De Minimis Conditions

A *de minimis* condition is a condition that "*generally does not present a threat to human 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*".

Based on the information Geosyntec obtained, Geosyntec has concluded that the following findings do not meet the definition of a REC, CREC or HREC and are therefore *de minimis* conditions:

- **Current Vehicle and Equipment Storage:** Areas of the Site are currently used for truck/trailer, vehicle, and construction-related equipment storage. Periodic maintenance of vehicles and equipment are performed in three areas of the Site, including Geerlings Equipment Rental at 867 Norman Road and two vehicle maintenance/storage yards. Small quantities of hazardous materials were used in these areas. Staining observed on unpaved surfaces at multiple locations, evidence of mis-handling of hazardous materials containers, ASTs and abandoned fuel tanks from trucks, and general poor housekeeping indicates the potential for discharge of hazardous materials to the ground and subsurface. The improper hazardous materials use and storage was identified as a potential source of subsurface impacts to soil and/or soil vapor at the Site.

  Geosyntec performed a limited Phase II ESA at the Site on 08 July 2022 and 05 August 2022 to evaluate the potential impacts at the Site due to improper hazardous materials use and storage and undocumented fill dirt. Soil vapor samples were collected throughout equipment storage and hazardous materials storage areas. Soil vapor concentrations did not exceed DTSC Screening Levels for commercial/industrial ambient air.

  Two soil samples collected at APN: 0280-172-17 (HA-4-220805) and 867 Norman Road (HA-3) exceeded the commercial screening level for total petroleum hydrocarbons in the diesel range. The soil samples contained TPH diesel at 2,300 mg/kg (HA-4-220805) and 13,000 mg/kg (HA-3), which exceeded the commercial ESL of 1,200 mg/kg.

For evaluating commercial worker exposures, a 1×10-5 risk level is commonly used for managing commercial/industrial sites in California. The adjusted 1×10-5 risk level for TPH diesel would be 12,000 mg/kg. The concentration of TPH diesel in the soil sample collected at APN: 0280-172-17 (HA-4-220805) is below the adjusted risk level. Based on the elevated concentrations of TPH diesel at 867 Norman Road, a hot spot removal was performed on 05 August 2022. Confirmation soil samples collected following the excavation detected TPH diesel below the commercial screening level.

- **Undocumented Fill Dirt:** During the initial Site reconnaissance in May 2022, Geosyntec observed aggregate piles of fill dirt and broken concrete located in a heavy equipment storage yard in the eastern portion of the Site. The source of the fill was unknown. Based on the lack of data regarding the fill composition and the potential for the fill to contain contaminants, this finding was identified as a potential source of subsurface impact.

  Soil samples collected from undocumented fill on 08 July 2022 detected various metals, and TPH in the diesel and motor oil range above laboratory reporting limits; however, all concentrations were below their respective commercial RSLs for soil. PCBs and organochlorine pesticides were not detected above laboratory reporting limits.

- **Solid Waste/Debris:** Solid waste was observed in numerous areas throughout the Site during the Site reconnaissance. Vehicle parts, tires, piping, ASTs, lumber, furniture, compressors, building materials, and other miscellaneous debris was observed, particularly in the central portion of the Site (755 and 787 Norman Road and APN: 0280-19-205). In addition, numerous containers of petroleum products (ranging in size from 1 to 5 gallons) were discarded on the ground. No major staining or releases were observed from the solid waste/debris; therefore, this finding is considered to be a de minimis condition.

8.2 Data Gaps

In accordance with ASTM E1527-13, this section documents data gaps in the information obtained and reviewed as part of this Phase I ESA and discusses the associated significance. A data gap is defined as being "*a lack of or inability to obtain information required by this practice [ASTM E1527-13] despite good faith efforts by the environmental professional to gather such information*".

Identified data gaps are presented below:

- During the Site reconnaissance, Geosyntec did not have access to the property identified by the APN: 0280-192-04, occupied by a roofing contractor and 0280-172-01 containing numerous truck trailers. Geosyntec was able to observe these properties from adjoining fence lines. In addition, Geosyntec was not provided access to the interior of residential houses or offices at the Site.

- ASTM E1527-13 states that "*interviews with past owners, operators, and occupants of the property who are likely to have material information regarding the potential for contamination at the property shall be conducted to the extent that they have been identified."* Geosyntec was not provided with and did not identify owner contact information prior to the current Site owner. However, since relevant historical documents were obtained, this limitation is not considered to be significant.

Collectively, these data gaps are not considered to be significant to the Findings or the identification of RECs given the fact that information was identified related to the Site from alternative sources.

8.3 Conclusions

Geosyntec has conducted a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the Site located between East Norman Road and East Orange Show Road in San Bernardino, California. Any exceptions to, or deviations from, this practice are described in Section 1.4 of this report. This assessment has revealed evidence of RECs in connection with the Site. No *significant* data gaps were identified.

9. REFERENCES

ASTM. 2013. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment*. ASTM International.

Environmental Data Resources (EDR). 2022a. *Fire Insurance Map Research Results.* 28 April 2022.

EDR. 2022b. *Topographic Map Research Results*. 28 April 2022.

EDR. 2022c. *Historical Aerial Report.* 28 April 2022.

EDR. 2022d. *Physical Setting Report*. 28 April 2022.

EDR. 2022e. *City Directory Report*. 28 April 2022.

EDR. 2022f. *Database Report.* 28 April 2022.

Morton, Douglas; Fred Miller. 2006. Geologic Map of the San Bernardino and Santa Ana 30’ x 60’ Quadrangles, California.

10. ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental professional as defined in §312.10 of 40 CFR Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

DRAFT

_____

Signed by Veryl Wittig - Geosyntec Consultants

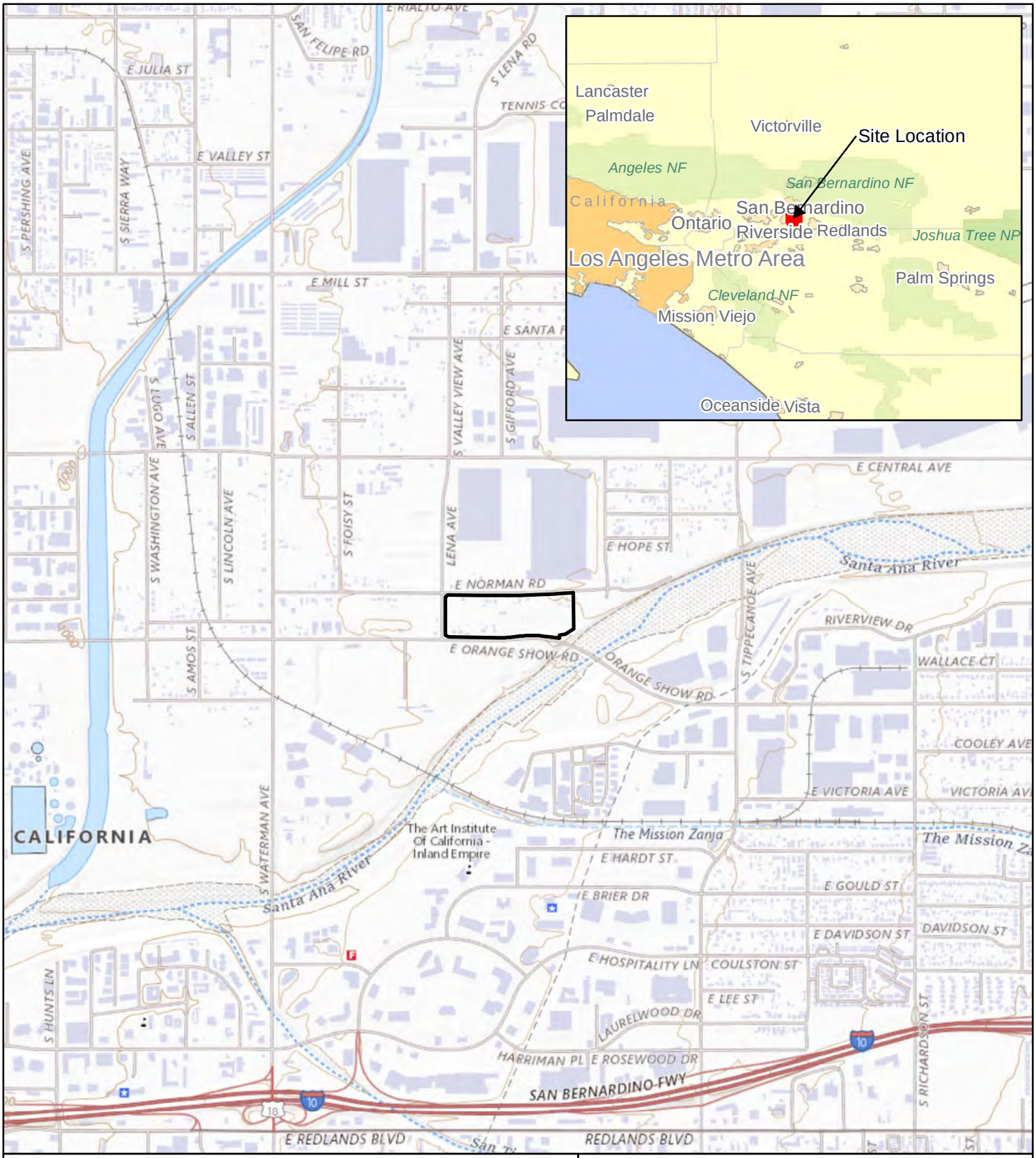
The qualifications of the above-signed professional are included in Section 11.

11. QUALIFICATIONS OF STAFF

Veryl Wittig

Mr. Wittig is a Senior Principal Hydrogeologist with more than 30 years of diverse experience in planning, conducting, and managing multi-disciplinary due diligence projects involving Phase I Environmental Site Assessments (ESAs), contaminant investigations, vapor intrusion studies, human health risk assessments, engineering feasibility studies, environmental liability evaluations, mitigation of environmentally impaired properties, regulatory coordination, and litigation support for a variety of private and public sector clients. Mr. Wittig has conducted and/or managed more than 300 Phase I ESAs throughout the USA and northern Mexico between 1992 and the present in accordance with ASTM standards to evaluate the presence of Recognized Environmental Conditions (RECs) associated with the subject properties. The Phase I ESAs have involved a variety of complexities and property usages ranging from rural native land to highly-impacted industrial properties with more than a century of historical activity. Mr. Wittig earned a Bachelor's degree in Geological Sciences (Hydrogeology Emphasis) from San Diego State University in 1991.

FIGURES



Legend

Site Location

N

0 500 1,000 2,000 Feet

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS

Site Location Map

Gateway Assemblage
San Bernadino, California

Geosyntec consultants

SC1256-02 | September 2022

Figure 1

P:\CAD_GIS\Projects\SC1256_San Bernadino\MXDs\Figure 1 Site Location Map.mxd 9/9/2022 5:53:21 AM



Legend

Approximate Site Boundary

Parcel Boundary

Notes:
All locations are approximate.

Imagery: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS © 2022 TomTom

N

0 50 100 200 Feet

Site Vicinity Map

Gateway Assemblage
San Bernadino, California

Geosyntec consultants

SC1256-02 | September 2022

Figure 2

P:\CAD_GIS\Projects\SC1256_San Bernadino\MXDs\Figure 2 Site Vicinity Map.mxd 9/9/2022 8:45:21 AM



Legend

Approximate Site Boundary

Parcel Boundary

Notes:
All locations are approximate.

Imagery: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS © 2022 TomTom
All locations are approximate.

N

0 50 100 200 Feet

Site Layout Map

Gateway Assemblage
San Bernadino, California

Geosyntec consultants

SC1256-02 | September 2022

Figure 3

P:\CAD_GIS\Projects\SC1256_San Bernadino\MXDs\Figure 3 Site Layout Map.mxd 9/9/2022 8:46:50 AM



Legend

- Approximate Site Boundary
- Soil Vapor Sample Location
- Soil Vapor/Hand Auger Sample Location
- Hand Auger Sample
- Excavation Sample Location
- Hot Spot Removal
- Parcel Boundary

Notes:
All locations are approximate.

Imagery: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS © 2022 TomTom
All locations are approximate.

N

0 50 100 200 Feet

Sample Location Map

Gateway Assemblage
San Bernadino, California

Geosyntec consultants

Figure 4

SC1256-02 | September 2022

P:\CAD_GIS\Projects\SC1256_San Bernadino\MXDs\Figure 4 Sample Location Mapv2.mxd 9/9/2022 9:04:19 AM

APPENDICES

APPENDIX A
Tax and Parcel Information

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Tract No. 2228, Valley Truck Farms No. 4
M.B. 31/95

City of San Bernardino 0280 – 17
Tax Rate Area
7028

1" = 100'



January 2005

Ptn. Parcel Map No. 19681, P.M. 249/51-54

Ptn. N.1/2, Sec. 14
T.1S., R.4W.

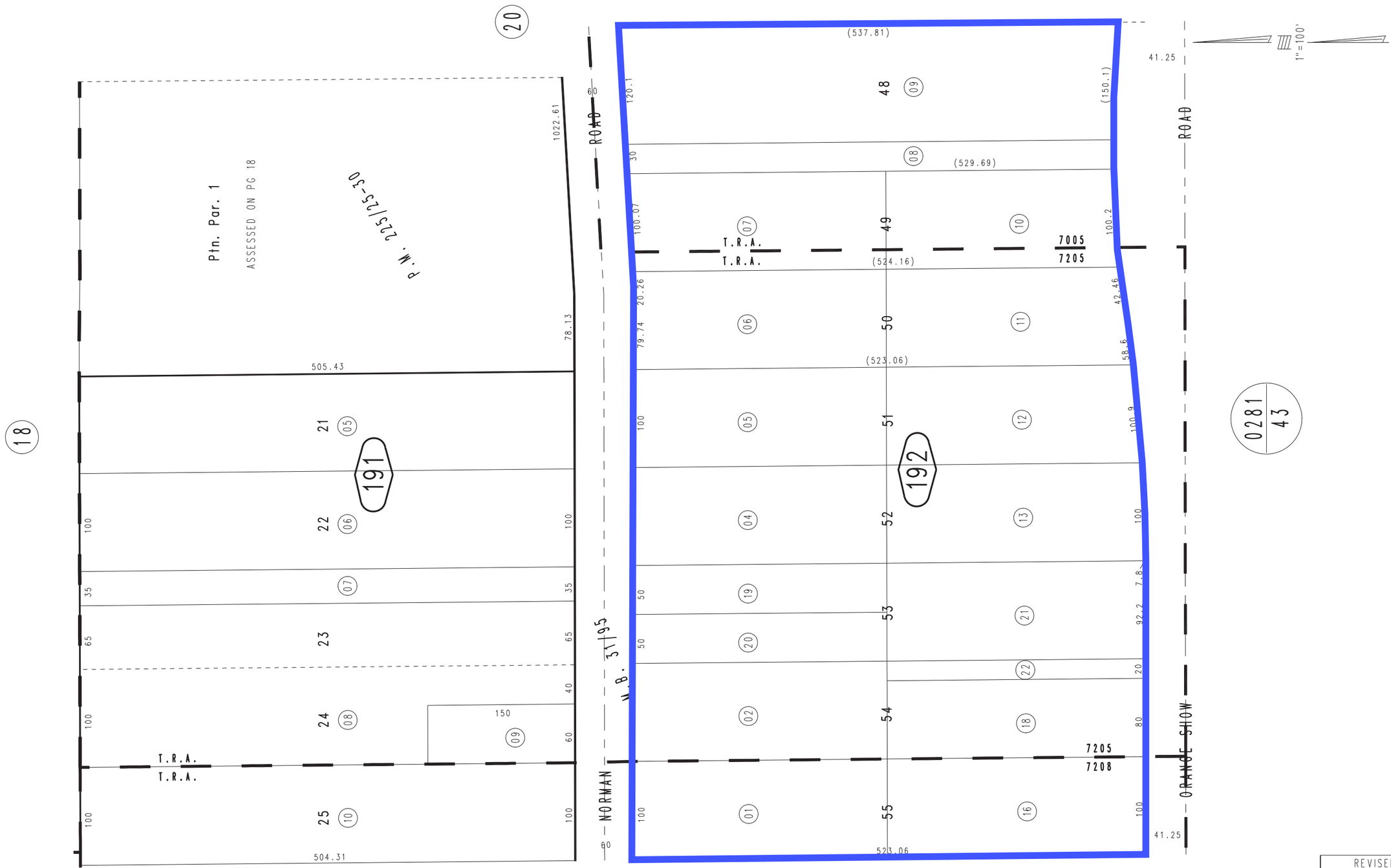
Assessor's Map
Book 0280 Page 17
San Bernardino County

REVISED
02/23/16 RM
02/15/18 KC

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Tract No. 2228, Valley Truck Farms No. 4
M.B. 31/95

City of San Bernardino 0280 - 19
Tax Rate Area
7005 7205 7208



January 2005

Ptn. Parcel Map No. 17721, P.M. 225/25-30

Ptn. S.E.1/4, Sec. 14
T.1S., R.4W.

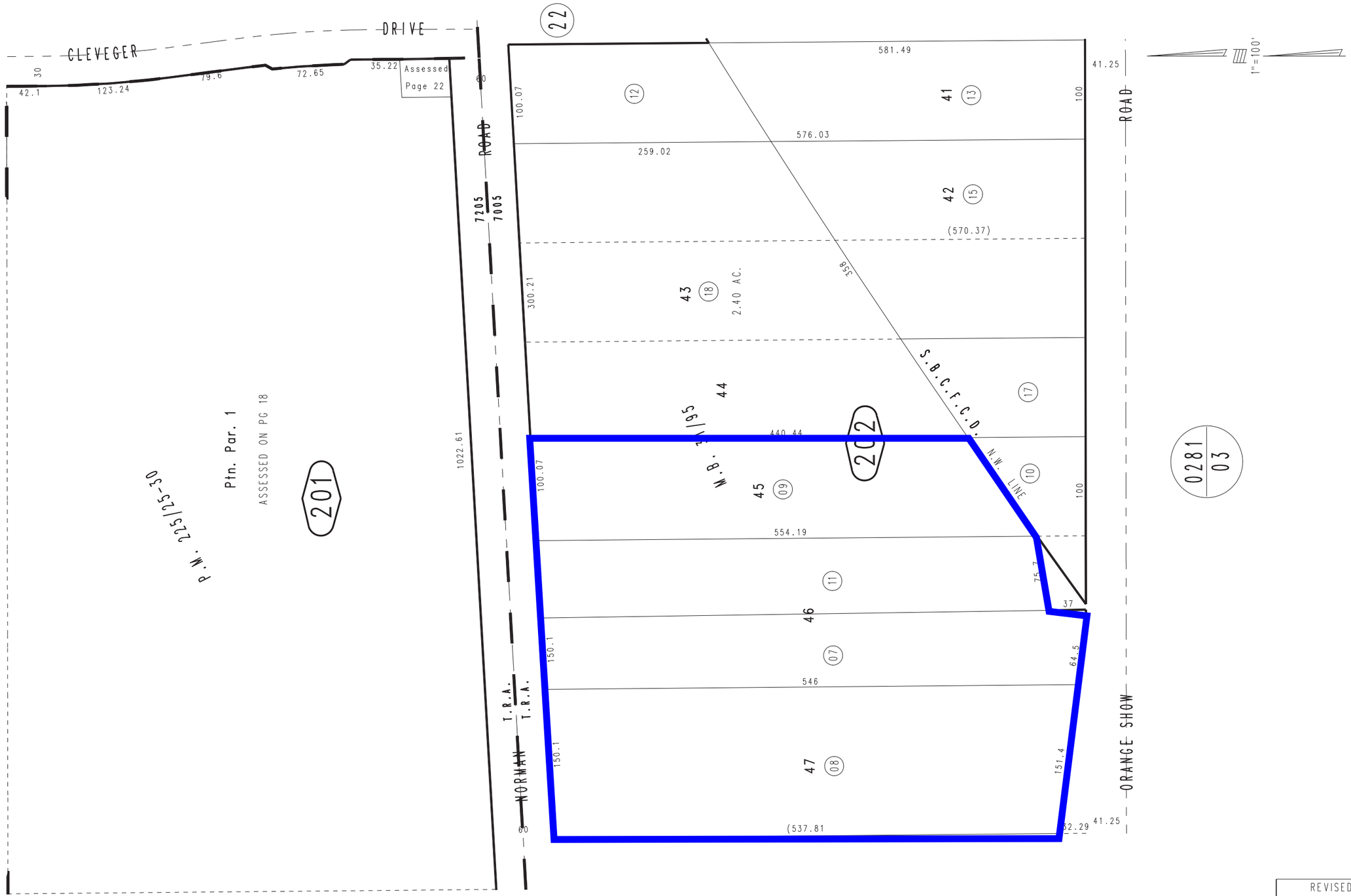
Assessor's Map
Book 0280 Page 19
San Bernardino County

REVISED
02/23/16 RM

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Tract No. 2228, Valley Truck Farms No. 4
M.B. 31/95

City of San Bernardino 0280 – 20
Tax Rate Area
7005 7205



January 2005

Ptn. Parcel Map No. 17721, P.M. 225/25-30

Ptn. S.E.1/4, Sec. 14
T.1S., R.4W.

Assessor's Map
Book 0280 Page 20
San Bernardino County

REVISED
10/15/20 KA

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-02-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address PATINO, OSCAR
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 04/03/2018

Parcel 0280192020000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code SFR 3
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Property Address for Single Family Residence Characteristic (Seq # 002)

Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Current Owners

Name PATINO, OSCAR
R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 09/29/2017
Document Date 09/29/2017
Inactive Date NONE

Document Numbers
20170403740

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192020000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 54

No Legal Reason for Change Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-04-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address JOHNSTON, MICHAEL LEE

JOHNSTON, MICHAEL LEE
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 05/11/2022

Parcel 0280192040000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name JOHNSTON, MICHAEL LEE
R/I SOLE OWNER
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 07/12/2012
Document Date 01/26/2022
Inactive Date NONE

Document Numbers
20220032481

Name JOHNSTON, MICHAEL LEE
R/I SOLE OWNER
% Int 50.0000000
Type OTHER OWNER
Acquisition Date 01/26/2022
Document Date 01/26/2022
Inactive Date NONE

Document Numbers
20220032481

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192040000			

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-05-0000

Property Information

Property Address (Main Situs)	Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Owner and Mailing Address	PAYTON, B & LATONIA LIVING TRUST 12-4-04 C/O BERNELL & LATONIA PAYTON TRUSTEES Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Effective Date	03/14/2005

Parcel	0280192050000
Parcel Status	ACTIVE
Parcel Type	REAL PROPERTY
Property ID	
Tax Status	ASSESSED BY COUNTY
Use Code	VACANT
Land Access	CHECK
Size	20,000 SQ. FEET TO 1.500 ACRES
Land Type	INDUSTRIAL
District	SAN BERNARDINO
Resp Group	REAL PROPERTY
Resp Unit	COMMERCIAL ZONE OR USE

Current Owners

Name	**PAYTON, B & LATONIA LIVING TRUST 12-4-04**	**Document Numbers**
R/I	TRUST REVOCABLE	20040915550
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	12/13/2004	
Document Date	12/13/2004	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192050000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 51

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-06-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address GONZALEZ, FRANCISCO
GONZALEZ, AURORA P
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 10/26/1983

Parcel 0280192060000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name GONZALEZ, FRANCISCO — **Document Numbers**

R/I SPOUSAL — 8322948200000
% Int 50.0000000
Type BILLED OWNER
Acquisition Date NONE
Document Date 09/30/1983
Inactive Date NONE

Name GONZALEZ, AURORA P — **Document Numbers**

R/I SPOUSAL — 8322948200000
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date NONE
Document Date 09/30/1983
Inactive Date NONE

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192060000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 5O

No Legal Reason for Change Found

Active Homeowner's Exemption as of 06/01/2022

Status	GRANTED		
Effective Date	03/01/1993	**Returned Date**	03/01/1993
Through Date	NONE	**Acquired Date**	03/01/1993
		Occupied Date	03/01/1993

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-07-0000

Property Information

Property Address (Main Situs)	Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Owner and Mailing Address	NAVARRO, MARIA T MEJIA Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Effective Date	07/17/2006

Parcel	0280192070000
Parcel Status	ACTIVE
Parcel Type	REAL PROPERTY
Property ID	
Tax Status	ASSESSED BY COUNTY
Use Code	SFR
Land Access	PUBLIC PAVED
Size	20,000 SQ. FEET TO 1.500 ACRES
Land Type	INDUSTRIAL
District	SAN BERNARDINO
Resp Group	REAL PROPERTY
Resp Unit	COMMERCIAL ZONE OR USE

Current Owners

Name	**NAVARRO, MARIA T MEJIA**	**Document Numbers**
R/I	SOLE OWNER	20060414989
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	06/19/2006	
Document Date	06/19/2006	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192070000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 49

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-08-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address NUNEZ, RUBEN
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 04/09/2020

Parcel 0280192080000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access DUAL
Size 10,500 TO 19,999 SQ. FEET
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name NUNEZ, RUBEN
R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 02/27/2020
Document Date 02/27/2020
Inactive Date NONE

Document Numbers
20200070837

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192080000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 W 30 FT LOT 48 EX ST ***** 04-02-97 #97-113704 STREET *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-09-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address NUNEZ, RUBEN
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 04/09/2020

Parcel 0280192090000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access DUAL
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name NUNEZ, RUBEN

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 02/27/2020
Document Date 02/27/2020
Inactive Date NONE

Document Numbers
20200070837

Legal Parcel Map

Tract	Lot	Block	Unit	Book	Page
2228	48				

Legal Description

TRACT 2228 LOT 48 TR NO 2228 VALLEY TRUCK FARMS NO 4 LOT 48 EX W 3O FT EX ST ***** 04-02-97 #97-113704 STREET *****

No Legal Reason for Change Found

19211

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-10-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address RODRIGUEZ, RUBEN LOPEZ
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 07/24/2019

Parcel 0280192100000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name RODRIGUEZ, RUBEN LOPEZ

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 07/11/2019
Document Date 07/11/2019
Inactive Date NONE

Document Numbers
20190230820

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192100000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 49 EX ST ***** 9-26-97 #97-354215 ST *****

No Legal Reason for Change Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-11-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address CAREY, WILLIAM S & MARY C TR 4-19-99 ETAL
C/O WILLIAM & MARY CAREY, TRS
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 07/02/2019

Parcel 0280192110000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type SINGLE FAMILY RESIDENTIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit RES ZONE(MAX 14 UTS)&USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name CAREY, MICHAEL R — **Document Numbers**

R/I TENANCY IN COMMON — 9212000000101
% Int 25.0000000
Type OTHER OWNER
Acquisition Date 07/05/1977
Document Date 07/05/1977
Inactive Date NONE

Name CAREY, WILLIAM S & MARY C TR 4-19-99 — **Document Numbers**

R/I TENANCY IN COMMON — 20030778393
% Int 25.0000000
Type OTHER OWNER
Acquisition Date 10/15/2003
Document Date 10/15/2003
Inactive Date NONE

Name	**CAREY, WILLIAM S & MARY C TR 4-19-99**
R/I	TENANCY IN COMMON
% Int	50.0000000
Type	BILLED OWNER
Acquisition Date	10/15/2003
Document Date	10/15/2003
Inactive Date	NONE

Document Numbers

20030778393

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192110000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 50 EX ST

Legal Reason for Change

Legal Reason for Change	Document Number	Date
STREET DEED	20020024896	01/17/2002

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-12-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address FTS EXPRESS INC
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 09/22/2021

Parcel 0280192120000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name FTS EXPRESS INC
R/I CORPORATION
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 05/11/2021
Document Date 05/11/2021
Inactive Date NONE

Document Numbers
20210217949

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192120000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 51 EX ST ***** 9-26-97 #97-354215 ST *****

No Legal Reason for Change Found

19219

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-13-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address FLEUR DE LIS INVESTMENT PROPERTIES LLC
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 10/15/2021

Parcel 0280192130000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit COMMERCIAL ZONE OR USE

Current Owners

Name FLEUR DE LIS INVESTMENT PROPERTIES LLC

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 06/08/2021
Document Date 06/08/2021
Inactive Date NONE

Document Numbers
20210259212

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192130000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 52 EX ST ***** 12-16-96 #96-459805 ST *****

No Legal Reason for Change Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-19-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address MORGA, JOVITA
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 07/24/2008

Parcel 0280192190000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 10,500 TO 19,999 SQ. FEET
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name MORGA, JOVITA
R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date NONE
Document Date 08/06/1998
Inactive Date NONE

Document Numbers
9831330100000

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192190000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 E 50 FT N 1/2 LOT 53

No Legal Reason for Change Found

Active Homeowner's Exemption as of 06/01/2022

Status	GRANTED		
Effective Date	12/31/2007	**Returned Date**	07/22/2008
Through Date	NONE	**Acquired Date**	08/06/1998
		Occupied Date	08/06/1998

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-20-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address DONIS, JUDITH
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 02/08/2022

Parcel 0280192200000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 10,500 TO 19,999 SQ. FEET
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name DONIS, JUDITH

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 07/03/2020
Document Date 09/16/2021
Inactive Date NONE

Document Numbers
20210424243

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192200000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 W 50 FT N 1/2 LOT 53

No Legal Reason for Change Found

Active Homeowner's Exemption as of 06/01/2022

Status	GRANTED		
Effective Date	07/03/2020	**Returned Date**	02/14/2022
Through Date	NONE	**Acquired Date**	07/03/2020
		Occupied Date	10/28/1999

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-202-07-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address WILLIAMS, THOMAS
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 11/30/2005

Parcel 0280202070000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name WILLIAMS, THOMAS

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 10/14/2005
Document Date 10/14/2005
Inactive Date NONE

Document Numbers
20050769183

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280202070000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 W 1/2 LOT 46 EX ST

Legal Reason for Change

Legal Reason for Change	Document Number	Date
STREET DEED	19960459308	12/16/1996

Active Homeowner's Exemption as of 06/01/2022

Status	GRANTED		
Effective Date	12/31/2009	**Returned Date**	12/29/2009
Through Date	NONE	**Acquired Date**	10/14/2005
		Occupied Date	10/14/2005

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-202-08-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address GLEASON, DWAYNE A TR
GLEASON, OTHA L TR
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 08/28/1995

Parcel 0280202080000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access DUAL
Size 1.501 TO 3.500 ACRES
Land Type SINGLE FAMILY RESIDENTIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit RES ZONE(MAX 14 UTS)&USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name GLEASON, DWAYNE A TR — **Document Numbers**

R/I TRUST REVOCABLE — 9526104500000
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 11/05/1990
Document Date 07/28/1995
Inactive Date NONE

Name GLEASON, OTHA L TR — **Document Numbers**

R/I TRUST REVOCABLE — 9526104500000
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date 11/05/1990
Document Date 07/28/1995
Inactive Date NONE

Legal Parcel Map

Tract	Lot	Block	Unit	Book	Page
2228	47				

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-202-09-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address GEERLINGS EQUIPMENT RENTAL INC
BELL, ALEXANDER MARCEL FAMILY TRUST 9/19
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 11/19/2015

Parcel 0280202090000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name GEERLINGS EQUIPMENT RENTAL INC — **Document Numbers**

R/I TENANCY IN COMMON — 20150471312
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 10/30/2015
Document Date 10/30/2015
Inactive Date NONE

Name BELL, ALEXANDER MARCEL FAMILY TRUST 9/19 — **Document Numbers**

R/I TENANCY IN COMMON — 20190383072
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date 10/24/2019
Document Date 10/24/2019
Inactive Date NONE

Legal Parcel Map

Tract	Lot	Block	Unit	Book	Page
2228	45				

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-202-11-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address PEREZ, ROBERTO
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 03/09/2021

Parcel 0280202110000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name PEREZ, ROBERTO
R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 12/14/2020
Document Date 12/14/2020
Inactive Date NONE

Document Numbers
20200506667

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280202110000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 E 1/2 LOT 46 EX PTN TO FLOOD CONTROL AND EX ST ***** 12/16/96 #96-459309 ST *****

No Legal Reason for Change Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-01-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address HERNANDEZ, FERNANDO
HERNANDEZ, ANA CELINA
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 04/14/2022

Parcel 0280172010000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit COMMERCIAL ZONE OR USE

Current Owners

Name HERNANDEZ, FERNANDO — **Document Numbers**

R/I SPOUSAL — 20210563553
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 12/16/2021
Document Date 12/16/2021
Inactive Date NONE

Name HERNANDEZ, ANA CELINA — **Document Numbers**

R/I SPOUSAL — 20210563553
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date 12/16/2021
Document Date 12/16/2021
Inactive Date NONE

Legal Parcel Map

Tract	Lot	Block	Unit	Book	Page
2228	56				

Legal Description

TRACT 2228 LOT 56 TR NO 2228 VALLEY TRUCK FARMS S 1/2 LOT 56 EX ST ***** 2-4-97 #97-039521 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-02-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address DHA OPPORTUNITY I LP
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 08/24/2011

Parcel 0280172020000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code SFR
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type SINGLE FAMILY RESIDENTIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit RES ZONE(MAX 14 UTS)&USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name DHA OPPORTUNITY I LP

R/I PARTNERSHIP
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 08/08/2011
Document Date 08/18/2011
Inactive Date NONE

Document Numbers
20110349999

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172020000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 57 EX ST ***** 1-10-97 #97-009210 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-11-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address NORMAN ROAD INVESTMENTS LLC
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 07/08/2022

Parcel 0280172110000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name NORMAN ROAD INVESTMENTS LLC

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 03/30/2022
Document Date 03/30/2022
Inactive Date NONE

Document Numbers
20220119641

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172110000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 59 EX ST

Legal Reason for Change

Legal Reason for Change	Document Number	Date
OTHER	2013-0506965	11/20/2013
STREET DEED	2009-0397355	09/09/2009

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-17-0000

Property Information

Property Address (Main Situs)	Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Owner and Mailing Address	NORMAN ROAD INVESTMENTS LLC Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Effective Date	04/20/2006

Parcel	0280172170000
Parcel Status	ACTIVE
Parcel Type	REAL PROPERTY
Property ID	
Tax Status	ASSESSED BY COUNTY
Use Code	VACANT
Land Access	PUBLIC PAVED
Size	20,000 SQ. FEET TO 1.500 ACRES
Land Type	INDUSTRIAL
District	SAN BERNARDINO
Resp Group	REAL PROPERTY
Resp Unit	COMMERCIAL ZONE OR USE

Current Owners

Name	**NORMAN ROAD INVESTMENTS LLC**	**Document Numbers**
R/I	SOLE OWNER	20060238232
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	04/07/2006	
Document Date	04/07/2006	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172170000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 58 AND W 55 FT N 1/2 LOT 57

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-19-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address GONZALEZ, ESPIRIDION
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 12/05/2000

Parcel 0280172190000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code SFR
Land Access PUBLIC PAVED
Size 10,500 TO 19,999 SQ. FEET
Land Type SINGLE FAMILY RESIDENTIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit RES ZONE(MAX 14 UTS)&USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name GONZALEZ, ESPIRIDION

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 08/01/2000
Document Date 08/01/2000
Inactive Date NONE

Document Numbers
20000274333

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172190000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 E 60 FT S 1/2 LOT 58 EX ST ***** 12-23-96 #96-468840 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-20-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address ALI, MOHAMMED ALI AHMED
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 01/26/2022

Parcel 0280172200000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 7,200 TO 10,499 SQ. FEET
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name ALI, MOHAMMED ALI AHMED

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 09/01/2021
Document Date 09/01/2021
Inactive Date NONE

Document Numbers
20210396901

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172200000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 58 EX E 60 FT THEREOF AND EX ST ***** 12-23-96 #96-468840 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-21-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address NORMAN ROAD INVESTMENTS LLC
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 04/20/2006

Parcel 0280172210000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit COMMERCIAL ZONE OR USE

Current Owners

Name NORMAN ROAD INVESTMENTS LLC

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 04/07/2006
Document Date 04/07/2006
Inactive Date NONE

Document Numbers
20060238232

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172210000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 56

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-172-22-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address NORMAN ROAD INVESTMENTS LLC
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 04/20/2006

Parcel 0280172220000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access CHECK
Size 10,500 TO 19,999 SQ. FEET
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit COMMERCIAL ZONE OR USE

Current Owners

Name NORMAN ROAD INVESTMENTS LLC

R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 04/07/2006
Document Date 04/07/2006
Inactive Date NONE

Document Numbers
20060238232

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280172220000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 E 45 FT N 1/2 LOT 57

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-01-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address ASSETTS CORP OF AMERICA INC
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 07/10/2015

Parcel 0280192010000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL

District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit COMMERCIAL ZONE OR USE

Current Owners

Name ASSETTS CORP OF AMERICA INC
R/I CORPORATION
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 05/15/2015
Document Date 06/26/2015
Inactive Date NONE

Document Numbers
20150269419

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192010000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 N 1/2 LOT 55

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-16-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address HERNANDEZ, FERNANDO
HERNANDEZ, ANA
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 12/20/2019

Parcel 0280192160000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name HERNANDEZ, FERNANDO — **Document Numbers**

R/I COMMUNITY PROPERTY SURVIVORSHIP RIGHTS — 20190450545
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 12/05/2019
Document Date 12/05/2019
Inactive Date NONE

Name HERNANDEZ, ANA — **Document Numbers**

R/I COMMUNITY PROPERTY SURVIVORSHIP RIGHTS — 20190450545
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date 12/05/2019
Document Date 12/05/2019
Inactive Date NONE

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192160000			

Legal Description

TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 55 EX ST ***** 03/28/97 #108748 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-18-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address HERNANDEZ, FERNANDO
HERNANDEZ, ANA
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 12/20/2019

Parcel 0280192180000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code RES ON COM
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name HERNANDEZ, FERNANDO — **Document Numbers**

R/I COMMUNITY PROPERTY SURVIVORSHIP RIGHTS — 20190450545
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 12/05/2019
Document Date 12/05/2019
Inactive Date NONE

Name HERNANDEZ, ANA — **Document Numbers**

R/I COMMUNITY PROPERTY SURVIVORSHIP RIGHTS — 20190450545
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date 12/05/2019
Document Date 12/05/2019
Inactive Date NONE

Legal Parcel Map

Tract	Lot	Block	Unit	Book	Page
2228	54				

Legal Description

TRACT 2228 LOT 54 TR NO 2228 W 80 FT OF S 1/2 OF LOT 54 EX ST ***** 12/23/96 #96-468841 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-21-0000

Property Information

Property Address (Main Situs)	Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Owner and Mailing Address	LAURO PROPERTIES LLC Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Effective Date	02/22/2022

Parcel	0280192210000
Parcel Status	ACTIVE
Parcel Type	REAL PROPERTY
Property ID	
Tax Status	ASSESSED BY COUNTY
Use Code	RES ON COM
Land Access	PUBLIC PAVED
Size	20,000 SQ. FEET TO 1.500 ACRES
Land Type	SINGLE FAMILY RESIDENTIAL
District	SAN BERNARDINO
Resp Group	REAL PROPERTY
Resp Unit	RES ZONE(MAX 14 UTS)&USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name	**LAURO PROPERTIES LLC**	**Document Numbers**
R/I	SOLE OWNER	20210445334
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	09/29/2021	
Document Date	09/29/2021	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192210000			

Legal Description

TRACT NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 53 EX ST ***** 1-10-97 #97-009207 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Property Information Management System

San Bernardino County

Office of the Assessor

PROPERTY INFORMATION REPORT FOR PARCEL 0280-192-22-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address HERNANDEZ, FERNANDO
HERNANDEZ, ANA
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 12/20/2019

Parcel 0280192220000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 5,000 TO 7,199 SQ. FEET
Land Type INDUSTRIAL
District SAN BERNARDINO
Resp Group REAL PROPERTY
Resp Unit INDUSTRIAL ZONE OR USE

Current Owners

Name HERNANDEZ, FERNANDO — **Document Numbers**

R/I COMMUNITY PROPERTY SURVIVORSHIP RIGHTS — 20190450545
% Int 50.0000000
Type BILLED OWNER
Acquisition Date 12/05/2019
Document Date 12/05/2019
Inactive Date NONE

Name HERNANDEZ, ANA — **Document Numbers**

R/I COMMUNITY PROPERTY SURVIVORSHIP RIGHTS — 20190450545
% Int 50.0000000
Type JOINT MAIL OWNER
Acquisition Date 12/05/2019
Document Date 12/05/2019
Inactive Date NONE

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0280192220000			

Legal Description

TRACT NO 2228 VALLEY TRUCK FARMS NO 4 E 20 FT S 1/2 LOT 54 EX ST ***** 12/23/96 #96-468841 ST *****

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

APPENDIX B
Historical Source Records and Database Reports

Gateway South Building 9 Assemblage

707 East Norman Road

San Bernardino, CA 92408

Inquiry Number: 6958905.8

April 28, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/28/22

Site Name:

Gateway South Building 9 Asse
707 East Norman Road
San Bernardino, CA 92408
EDR Inquiry # 6958905.8

Client Name:

GeoSyntec Consultants
16644 West Bernardo Drive SUITE 301
SAN DIEGO, CA 92127
Contact: Jackie Hyman

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1968	1"=500'	Flight Date: August 21, 1968	USDA
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: January 23, 1953	USDA
1949	1"=500'	Flight Date: May 06, 1949	USDA
1938	1"=500'	Flight Date: July 04, 1938	USDA
1930	1"=500'	Flight Date: March 25, 1930	FAIR

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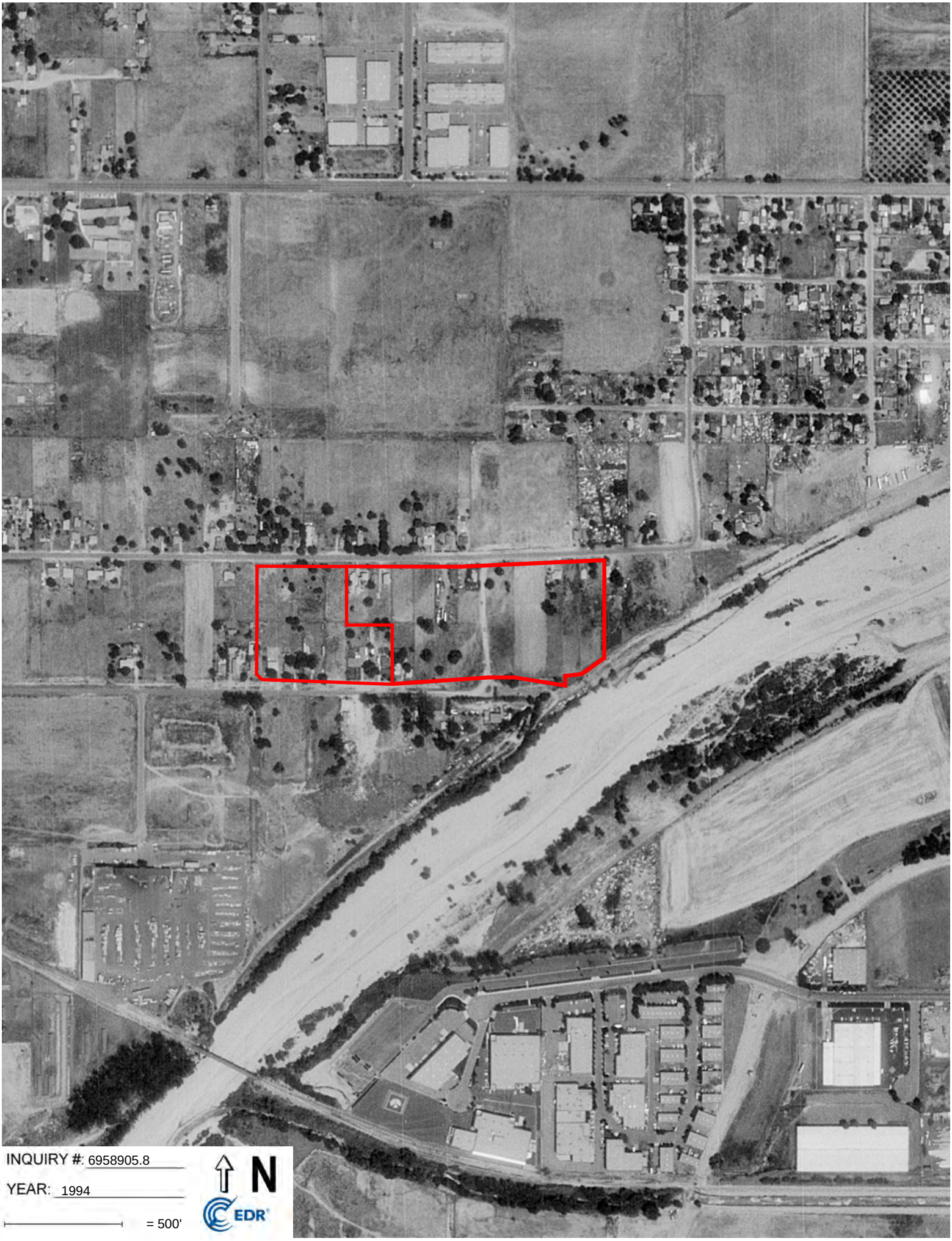

ALERE
INQUIRY #: 6958905.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 2002
= 500'
N
EDR

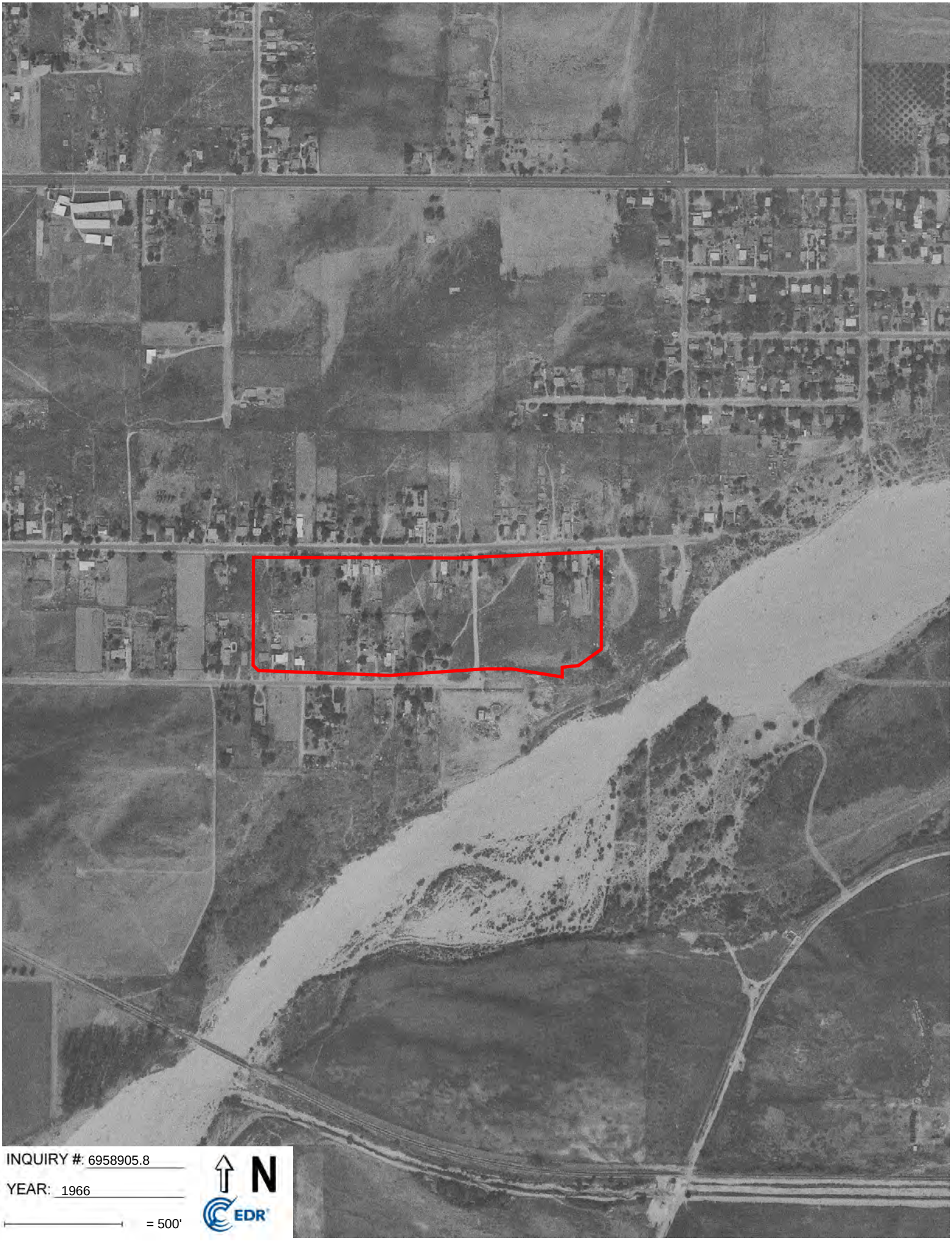

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YEAR: 1994
= 500'
N
EDR

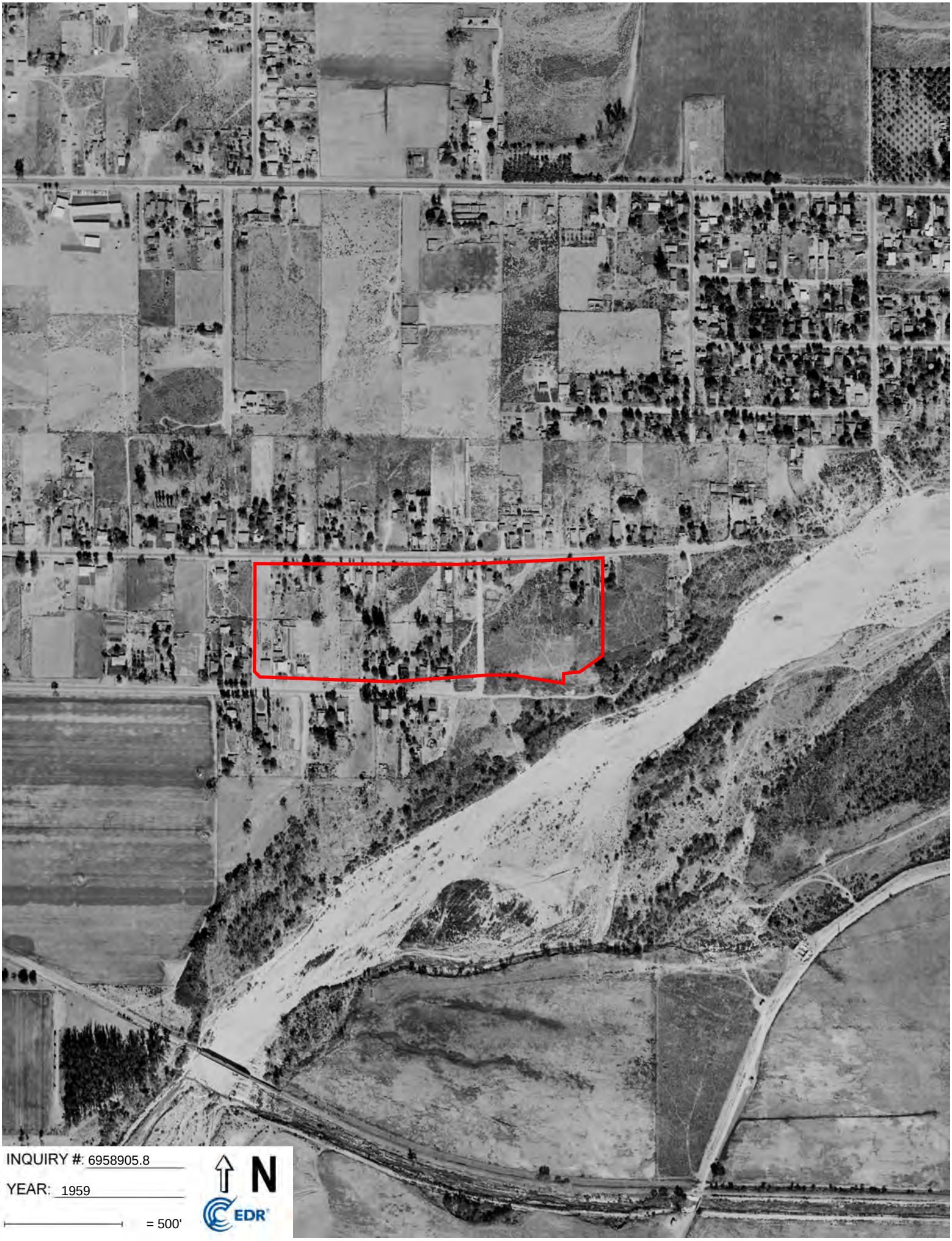

INQUIRY #: 6958905.8
YEAR: 1989
= 500'
N
EDR

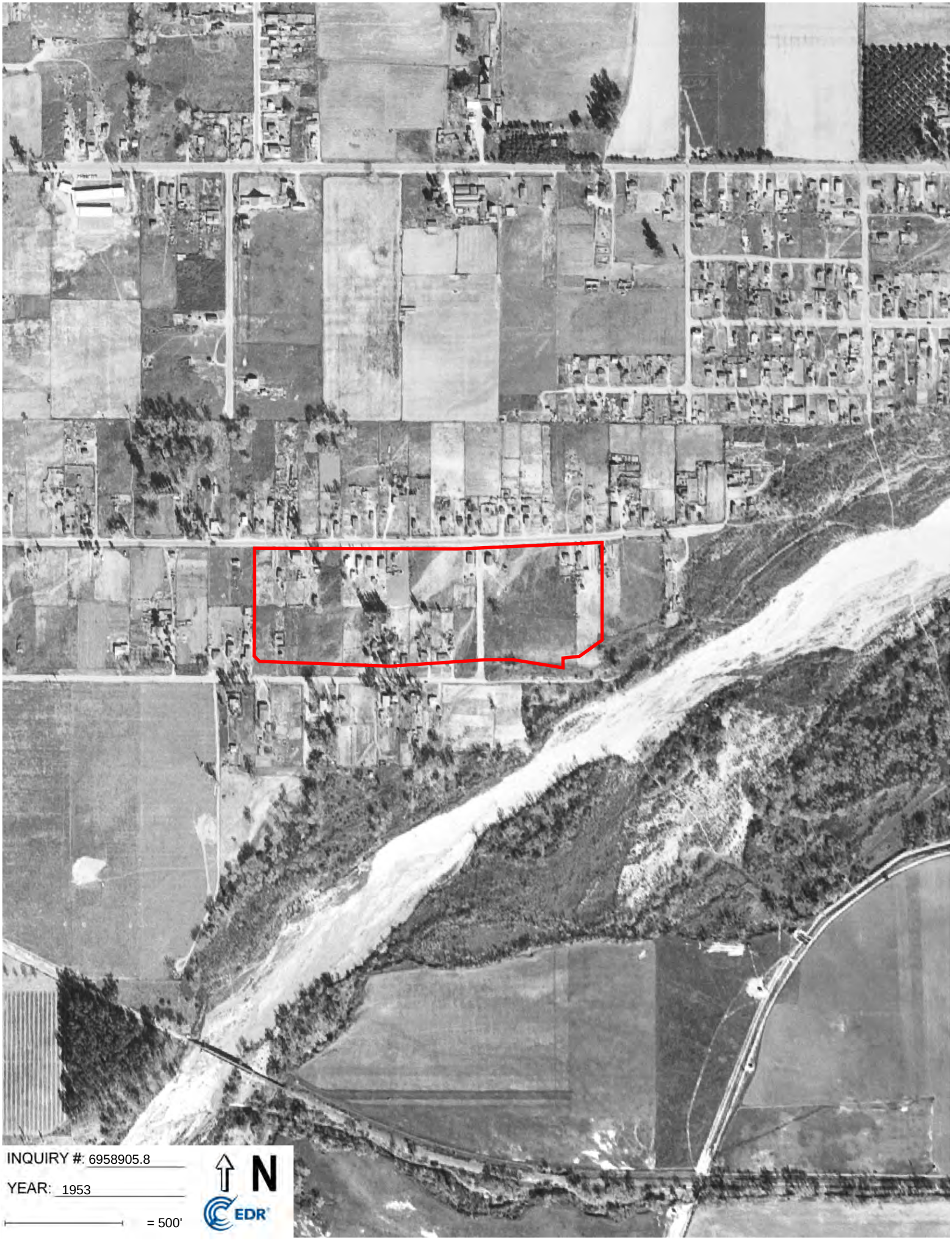

INQUIRY #: 6958905.8
YEAR: 1985
= 500'
N
EDR

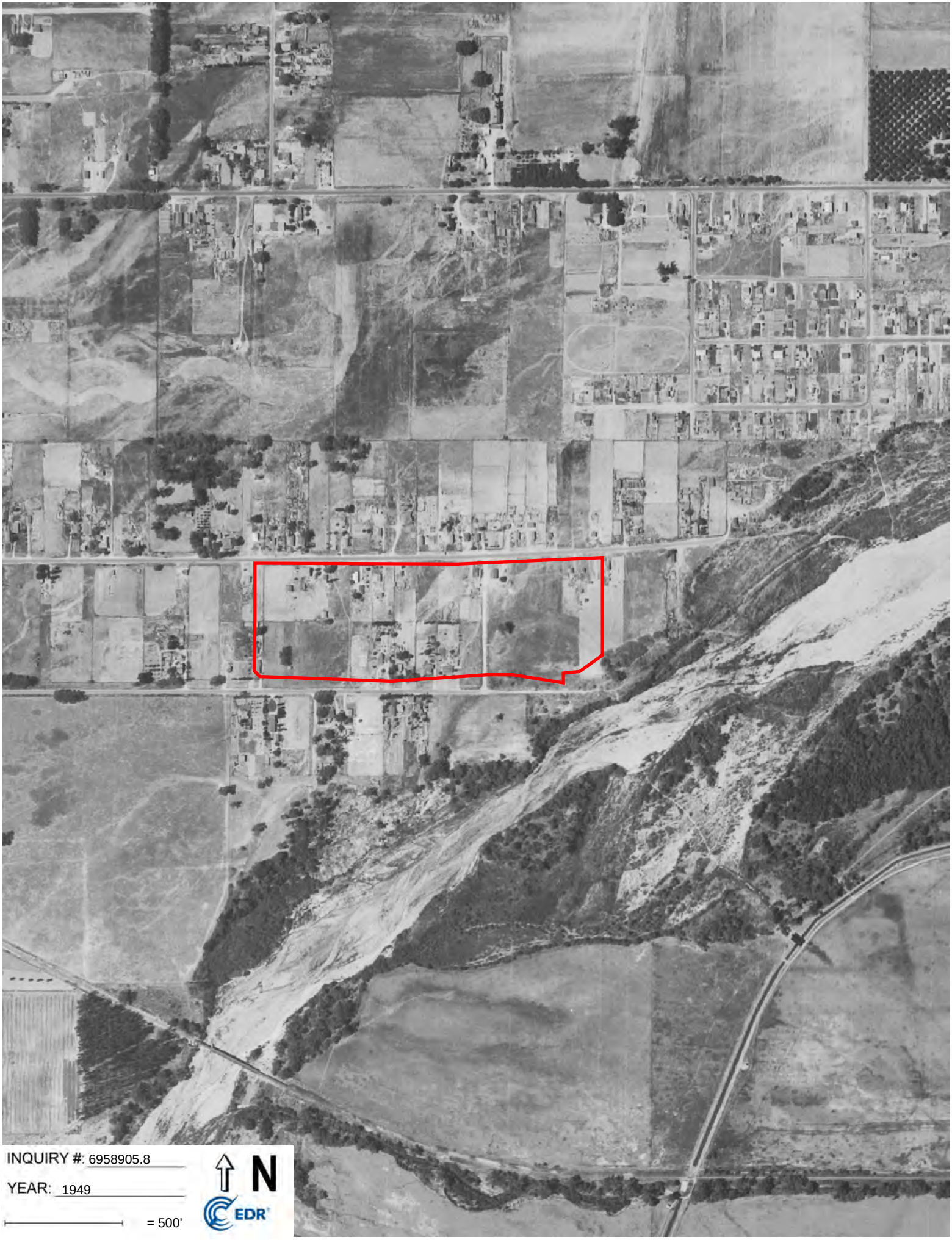

INQUIRY #: 6958905.8
YEAR: 1975
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 1968
= 500'
N
EDR

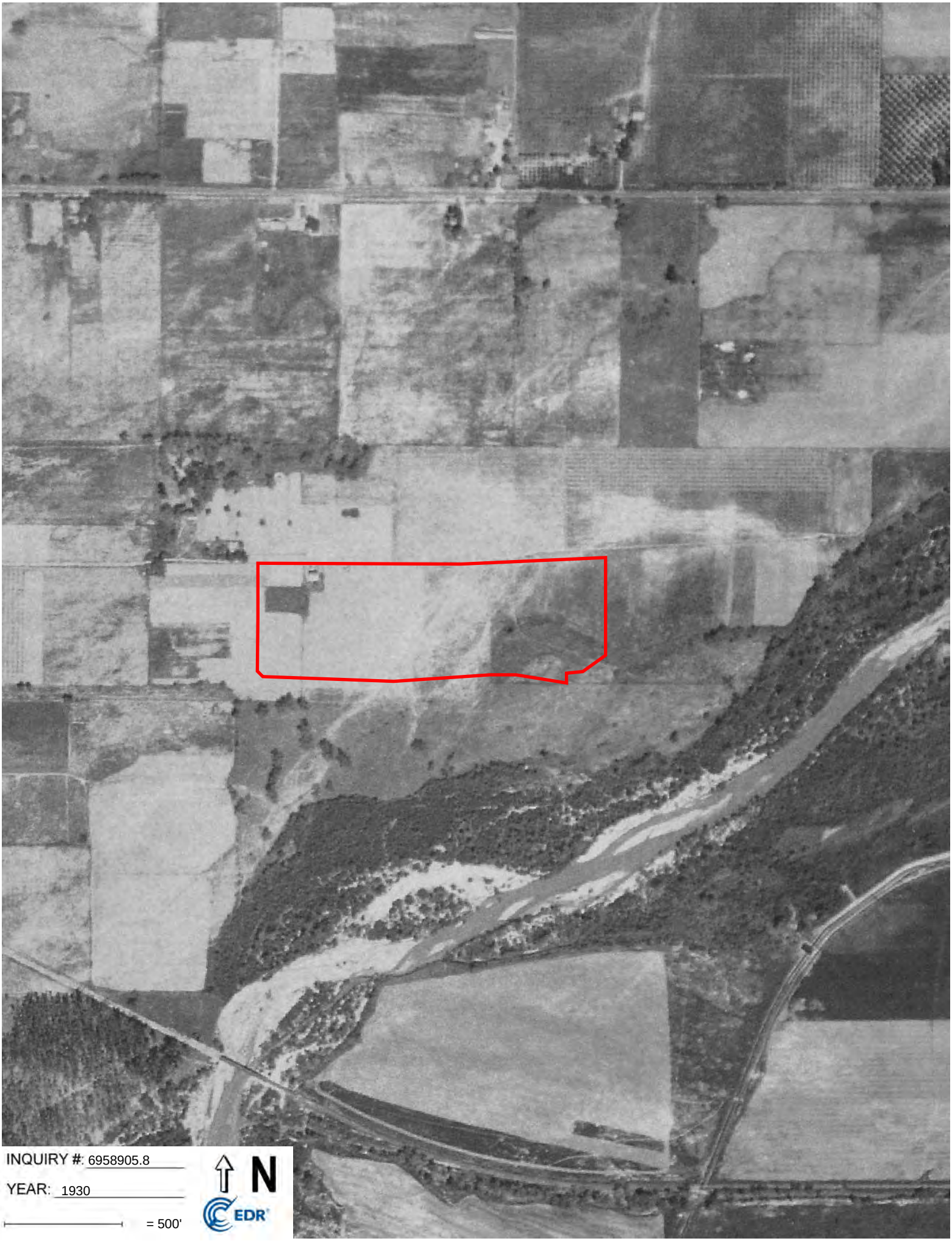

INQUIRY #: 6958905.8
YEAR: 1966
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 1959
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 1953
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 1949
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 1938
= 500'
N
EDR


INQUIRY #: 6958905.8
YEAR: 1930
= 500'
N
EDR

Gateway South Building 9 Assemblage
707 East Norman Road
San Bernardino, CA 92408

Inquiry Number: 6958905.5
April 28, 2022

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2014	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2009	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2008	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
2003	Haines & Co Publishers	-	X	X	-
	Haines & Co Publishers	X	X	X	-
2002	Cole Information Services	-	-	-	-
1999	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1996	GTE Street Address Directory	-	X	X	-
1995	GTE Directories	-	-	-	-
1994	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1991	GTE California Incorporated	-	X	X	-
	GTE California Incorporated	X	X	X	-
1990	GTE California Incorporated	-	-	-	-
1985	GTE	-	-	-	-
1981	General Telephone Company of California	-	X	X	-
	General Telephone Company of California	X	X	X	-
1980	GTE	-	-	-	-
1975	General Telephone Company of California	-	X	X	-
	General Telephone Company of California	X	X	X	-
	Pacific Telephone Co	-	X	X	-
	Pacific Telephone Co	X	X	X	-
1970	General Telephone Company of California	-	-	-	-
1965	GTE	-	-	-	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	Luskey Brothers & Co Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers& Co Publishers	-	X	X	-
	Luskey Brothers& Co Publishers	X	X	X	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
695 East Norman Road	Client Entered	X
715 East Norman Road	Client Entered	X
755 East Norman Road	Client Entered	X
787 East Norman Road	Client Entered	X
807 East Norman Road	Client Entered	X
823 East Norman Road	Client Entered	
867 East Norman Road	Client Entered	X
788 East Orange Show Road	Client Entered	
24512 Pioneer Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

707 East Norman Road
San Bernardino, CA 92408

FINDINGS DETAIL

Target Property research detail.

E NORMAN RD

695 E NORMAN RD

Year	Uses	Source
2014	JUAN MEDINA GARCIA	Cole Information Services
2009	JORGE RAMIREZ	Cole Information Services
2008	XXXX	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	JORGE RAMIREZ	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	STEPHENS, E	Cole Information Services

707 E NORMAN RD

Year	Uses	Source
2017	BRYAN DONIS	Cole Information Services
2014	FELIPE DONIS	Cole Information Services
2009	FELIPE DONIS	Cole Information Services
2008	XXXX	Haines Company, Inc.
2004	FELIPE DONIS	Cole Information Services
1999	FELIPE DONIS	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

715 E NORMAN RD

Year	Uses	Source
2017	JUAN MORGA	Cole Information Services
2014	JOVITA MORGA	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
2008	XXXX	Haines Company, Inc.

755 E NORMAN RD

Year	Uses	Source
2017	FRANCISCO GONZALEZ	Cole Information Services
2014	FRANCISCO GONZALEZ	Cole Information Services

787 E NORMAN RD

Year	Uses	Source
2017	MARIA NAVARRO	Cole Information Services
2014	ERNEST TAPIA	Cole Information Services
2009	MARIA MEJIA	Cole Information Services
2008	MEJIA Maria	Haines Company, Inc.
	NAVARRO Maria	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
	THE END ZONE SPRT BAR & GRILL	Cole Information Services
1999	MARIA MEJIA	Cole Information Services

East Norman Road

695 East Norman Road

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2003	XXXX	Haines & Co Publishers

715 East Norman Road

Year	Uses	Source
2008	XXXX	Haines Company, Inc.

755 East Norman Road

Year	Uses	Source
1955	Stewart J	Luskey Brothers& Co Publishers

787 East Norman Road

Year	Uses	Source
2008	MEJIA Maria	Haines Company, Inc.
	NAVARRO Maria	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2003	MURRAY Darlo L	Haines & Co Publishers
	RAMIREZ Denise	Haines & Co Publishers
1981	MCDOWELL OLA	General Telephone Company of California
1975	MCDOWELL OLA	General Telephone Company of California

807 East Norman Road

Year	Uses	Source
2008	WILLIAMS Thomas	Haines Company, Inc.
2003	WINE Martha	Haines & Co Publishers
1991	Cooper Johnson	GTE California Incorporated
1981	COOPER JOHNSON	General Telephone Company of California
1975	COOPER JOHNSON	General Telephone Company of California

823 East Norman Road

Year	Uses	Source

867 East Norman Road

Year	Uses	Source
2008	CAVALLO Daniel	Haines Company, Inc.
	LOPEZ Blanca	Haines Company, Inc.
	MUNOZ Teresa	Haines Company, Inc.
	PABON R	Haines Company, Inc.
1981	MCDADE NINNIE	General Telephone Company of California
1975	MCDADE ROBT	General Telephone Company of California

East Orange Show Road

788 East Orange Show Road

Year	Uses	Source

NORMAN RD

787 NORMAN RD

Year	Uses	Source
1981	MCDOWELL OLA	General Telephone Company of California

FINDINGS

Year	Uses	Source
1975	MCDOWELL OLA	General Telephone Company of California

NORMAN RD E

695 NORMAN RD E

Year	Uses	Source
2003	XXXX	Haines & Co Publishers

707 NORMAN RD E

Year	Uses	Source
2003	XXXX	Haines & Co Publishers

787 NORMAN RD E

Year	Uses	Source
2003	MURRAY Darlo L	Haines & Co Publishers
	RAMIREZ Denise	Haines & Co Publishers

Pioneer Avenue

24512 Pioneer Avenue

Year	Uses	Source

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

685 695 NORMAN RD

685 685 695 NORMAN RD

Year	Uses	Source
2004	RITA PATINO	Cole Information Services

E NORMAN RD

605 E NORMAN RD

Year	Uses	Source
2008	MEDINA Salvador	Haines Company, Inc.

614 E NORMAN RD

Year	Uses	Source
2014	LUISA RAMIREZ	Cole Information Services
2009	RAMON RAMIREZ	Cole Information Services
1999	RAMON RAMIREZ	Cole Information Services
1994	BRIONES, OLGA	Cole Information Services

620 E NORMAN RD

Year	Uses	Source
2004	HUGO CASILLAS	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services

634 E NORMAN RD

Year	Uses	Source
2017	LOURDES TORRESDEMARTINEZ	Cole Information Services
2014	DEMARTINEZ TORRES	Cole Information Services
2009	DIONISIO MARTINEZ	Cole Information Services
2008	TSAI Chin	Haines Company, Inc.
1999	DIONISIO MARTINEZ	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	SWANSON, ANDREW	Cole Information Services

FINDINGS

648 E NORMAN RD

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services

664 E NORMAN RD

Year	Uses	Source
2017	RODRIGO MENDEZ	Cole Information Services
2014	RODRIGO MENDEZ	Cole Information Services
2009	ALVARO HERNANDEZ	Cole Information Services
2004	CHRISTIAN DESANTIAGO	Cole Information Services
	MARIA SANTIAGO	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	ALVARO HERNANDEZ	Cole Information Services

670 E NORMAN RD

Year	Uses	Source
2017	YESSICA RODRIGUEZ	Cole Information Services
2014	MARIA CESENA	Cole Information Services
2009	MARIA CESENA	Cole Information Services
2008	XXXX	Haines Company, Inc.
2004	MARCELLA FRANCO	Cole Information Services
1999	MARIA CESENA	Cole Information Services

678 E NORMAN RD

Year	Uses	Source
2017	B URIBE	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	LORENZO ALONZO	Cole Information Services
2004	CHRISTINA DANIELS	Cole Information Services
1999	LORENZO ALONZO	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

682 E NORMAN RD

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

685 E NORMAN RD

Year	Uses	Source
2017	MARTINA MARTINEZ	Cole Information Services
	OLGA ROMERO	Cole Information Services
2014	OLGA ROMERO	Cole Information Services
	MARTINA MARTINEZ	Cole Information Services
2009	OLGA ROMERO	Cole Information Services
	T GUTIERREZ	Cole Information Services
2008	ROMERO Olga	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
	MARGARITA ESCOBAR	Cole Information Services
1999	OLGA ROMERO	Cole Information Services
	T GUTIERREZ	Cole Information Services
1994	GLADDEN, IRMA	Cole Information Services

694 E NORMAN RD

Year	Uses	Source
2017	MIGUEL GALINDO	Cole Information Services
2014	MIGUEL GALINDO	Cole Information Services
2009	MIGUEL GALINDO	Cole Information Services
2008	GALINDO Guadalupe	Haines Company, Inc.
2004	ROSE CURTIS	Cole Information Services
1999	MIGUEL GALINDO	Cole Information Services

738 E NORMAN RD

Year	Uses	Source
2014	RANDALL COOLEY	Cole Information Services
2009	BARRY WALLACE	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	BARRY WALLACE	Cole Information Services

FINDINGS

762 E NORMAN RD

Year	Uses	Source
2014	BEATRICE WILCOTS	Cole Information Services
2009	BEATRICE WILCOTS	Cole Information Services
2004	BEATRICE WILCOTS	Cole Information Services
1999	BEATRICE WILCOTS	Cole Information Services
1996	Wilcots Beatrice	GTE Street Address Directory
1994	WILCOTS, B	Cole Information Services

770 E NORMAN RD

Year	Uses	Source
2008	MULLIGAN JAMES	Haines Company, Inc.
2004	JAMES MILLIGAN	Cole Information Services

807 E NORMAN RD

Year	Uses	Source
2017	THOMAS WILLIAMS	Cole Information Services
	THOMAS WILLIAMS	Cole Information Services
2014	THOMAS WILLIAMS	Cole Information Services
	THOMAS WILLIAMS	Cole Information Services
2009	CURTIS CONNER	Cole Information Services
	CURTIS CONNER	Cole Information Services
2008	WILLIAMS Thomas	Haines Company, Inc.
2004	MARTHA WINE	Cole Information Services
	MARTHA WINE	Cole Information Services
1999	CURTIS CONNER	Cole Information Services
	CURTIS CONNER	Cole Information Services
1994	COOPER, JOHNSON	Cole Information Services
	COOPER, JOHNSON	Cole Information Services
1991	Cooper Johnson	GTE California Incorporated

867 E NORMAN RD

Year	Uses	Source
2014	HOLLY MUNOZ	Cole Information Services
2004	W BROWN	Cole Information Services

FINDINGS

E ORANGE SHOW RD

646 E ORANGE SHOW RD

Year	Uses	Source
2017	ESPIRIDION GONZALEZ	Cole Information Services
2014	ESPIRIDION GONZALEZ	Cole Information Services
2009	ESPIRIDION GONZALEZ	Cole Information Services
2004	ESPIRIDION GONZALEZ	Cole Information Services
1999	ESPIRIDION GONZALEZ	Cole Information Services

652 E ORANGE SHOW RD

Year	Uses	Source
2017	JOHN DURAN	Cole Information Services
2014	JUAN DURAN	Cole Information Services
2009	JOHN DURAN	Cole Information Services
2008	DURAN Silvia	Haines Company, Inc.
2004	JOHN DURAN	Cole Information Services
1999	JOHN DURAN	Cole Information Services

667 E ORANGE SHOW RD

Year	Uses	Source
2009	WENDELL PAYTON	Cole Information Services
1999	WENDELL PAYTON	Cole Information Services

668 E ORANGE SHOW RD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2004	WENDELL PAYTON	Cole Information Services
	PAYTON BROTHERS EQPMNT RNTL	Cole Information Services

684 E ORANGE SHOW RD

Year	Uses	Source
2008	CADDEL ENGINEERING	Haines Company, Inc.
2004	CLARENCE MCZEAL	Cole Information Services
	CADDEL GENERAL ENGINEERING INC	Cole Information Services

FINDINGS

706 E ORANGE SHOW RD

Year	Uses	Source
2017	LUIS LOZOYA	Cole Information Services
2014	LUIS LOZOYA	Cole Information Services
2009	LUIS LOZOYA	Cole Information Services
2008	REYES Maria	Haines Company, Inc.
2004	CYNTHIA CERVANTES	Cole Information Services
1999	LUIS LOZOYA	Cole Information Services

755 E ORANGE SHOW RD

Year	Uses	Source
2017	MARGARETA HERMAN	Cole Information Services
2014	DANNY VALDEZ	Cole Information Services
2009	DANNY VALDEZ	Cole Information Services
2008	REYES Michelle	Haines Company, Inc.
	VALDEZ Jeannette	Haines Company, Inc.
1999	DANNY VALDEZ	Cole Information Services

E PIONEER RD

624 E PIONEER RD

Year	Uses	Source
1996	Tobler Susan	GTE Street Address Directory

652 E PIONEER RD

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

668 E PIONEER RD

Year	Uses	Source
2008	PAYTON Wendell	Haines Company, Inc.

684 E PIONEER RD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
1999	WEBB SHARON D	Cole Information Services
	SHARONS LOVING CARE SERVICE	Cole Information Services

FINDINGS

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services
1996	SHARON S LOVING CARE	GTE Street Address Directory
1994	SHARONS LOVING CARE SVC	Cole Information Services
	WEBB, SHARON D	Cole Information Services

706 E PIONEER RD

Year	Uses	Source
2008	LOZOYA Mucio	Haines Company, Inc.
1996	Reyes Maria	GTE Street Address Directory
1994	CARTER, CHARLES	Cole Information Services

715 E PIONEER RD

Year	Uses	Source
1999	RIVERSIDE DESIGN & CONSTRUCTION	Cole Information Services
1994	RIVERSIDE DESIGN & CONSTR	Cole Information Services

717 E PIONEER RD

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

753 E PIONEER RD

Year	Uses	Source
1994	ADAMS, EDNA B	Cole Information Services

755 E PIONEER RD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
1996	Line John E	GTE Street Address Directory
	Armstead Audrey	GTE Street Address Directory
1994	ARMSTEAD, AUDREY	Cole Information Services

787 E PIONEER RD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.

FINDINGS

N ORMAN RD

787 N ORMAN RD

Year	Uses	Source
1975	Mc Dow ell Ola	Pacific Telephone Co

807 N ORMAN RD

Year	Uses	Source
1975	Cooper Johnson	Pacific Telephone Co

NORMAN RD

602 NORMAN RD

Year	Uses	Source
1955	Roberts John	Luskey Brothers& Co Publishers

609 NORMAN RD

Year	Uses	Source
1955	Jones Roy	Luskey Brothers& Co Publishers
	Write Sally	Luskey Brothers& Co Publishers

611 NORMAN RD

Year	Uses	Source
1955	Lilvery Walter	Luskey Brothers& Co Publishers

616 NORMAN RD

Year	Uses	Source
1955	Saterflelfd C T Jr fanner	Luskey Brothers& Co Publishers

625 NORMAN RD

Year	Uses	Source
1955	Washington Mary Mrs	Luskey Brothers& Co Publishers

626 NORMAN RD

Year	Uses	Source
1955	Vacant	Luskey Brothers& Co Publishers

FINDINGS

627 NORMAN RD

Year	*Uses*	*Source*
1955	Green Herbert	Luskey Brothers& Co Publishers

634 NORMAN RD

Year	*Uses*	*Source*
1955	Sate fld C T	Luskey Brothers& Co Publishers

652 NORMAN RD

Year	*Uses*	*Source*
1955	Haynes Henry	Luskey Brothers& Co Publishers

668 NORMAN RD

Year	*Uses*	*Source*
1955	DeCair P P	Luskey Brothers& Co Publishers

676 NORMAN RD

Year	*Uses*	*Source*
1955	Edw ads Jim rbibshal a t Bg	Luskey Brothers& Co Publishers

696 NORMAN RD

Year	*Uses*	*Source*
1955	UMurray W m	Luskey Brothers& Co Publishers

697 NORMAN RD

Year	*Uses*	*Source*
1955	Mc Dow ell W R	Luskey Brothers& Co Publishers

703 NORMAN RD

Year	*Uses*	*Source*
1955	Grigley Cora Mrs	Luskey Brothers& Co Publishers

726 NORMAN RD

Year	*Uses*	*Source*
1955	Wheeler Ida Mrs	Luskey Brothers& Co Publishers
	Furlough John B	Luskey Brothers& Co Publishers

FINDINGS

734 NORMAN RD

Year	Uses	Source
1955	Furlough Geo	Luskey Brothers& Co Publishers
	Fowler Carl	Luskey Brothers& Co Publishers

744 NORMAN RD

Year	Uses	Source
1955	Hinchen Garield B	Luskey Brothers& Co Publishers

755 NORMAN RD

Year	Uses	Source
1955	Stewart J	Luskey Brothers& Co Publishers

758 NORMAN RD

Year	Uses	Source
1955	Fowler J C	Luskey Brothers& Co Publishers

760 NORMAN RD

Year	Uses	Source
1955	Fowler L O	Luskey Brothers& Co Publishers

761 NORMAN RD

Year	Uses	Source
1955	McDeade Robt	Luskey Brothers& Co Publishers

762 NORMAN RD

Year	Uses	Source
1955	Furlough John B	Luskey Brothers& Co Publishers
	Johnson Preious Mrs	Luskey Brothers& Co Publishers

767 NORMAN RD

Year	Uses	Source
1955	McDade Jeff	Luskey Brothers& Co Publishers

768 NORMAN RD

Year	Uses	Source
1955	Harris Louis	Luskey Brothers& Co Publishers
	Harris E L	Luskey Brothers& Co Publishers

FINDINGS

772 NORMAN RD

Year	Uses	Source
1955	Harris J M farmer	Luskey Brothers& Co Publishers

783 NORMAN RD

Year	Uses	Source
1955	No return	Luskey Brothers& Co Publishers

790 NORMAN RD

Year	Uses	Source
1955	Bradley Law rence	Luskey Brothers& Co Publishers

796 NORMAN RD

Year	Uses	Source
1955	City Garbage Disposal	Luskey Brothers& Co Publishers
	Simental H R	Luskey Brothers& Co Publishers

807 NORMAN RD

Year	Uses	Source
1981	COOPER JOHNSON	General Telephone Company of California
1975	COOPER JOHNSON	General Telephone Company of California

NORMAN RD E

604 NORMAN RD E

Year	Uses	Source
2003	SILVA Francisco	Haines & Co Publishers
	RAMIREZ Alejo	Haines & Co Publishers

605 NORMAN RD E

Year	Uses	Source
2003	MARSHALL Wilbert	Haines & Co Publishers

614 NORMAN RD E

Year	Uses	Source
2003	XXXX	Haines & Co Publishers

FINDINGS

620 NORMAN RD E

Year	*Uses*	*Source*
2003	CASILLAS Hugo	Haines & Co Publishers

634 NORMAN RD E

Year	*Uses*	*Source*
2003	TSAI Chin	Haines & Co Publishers

664 NORMAN RD E

Year	*Uses*	*Source*
2003	KIMS Metha	Haines & Co Publishers

762 NORMAN RD E

Year	*Uses*	*Source*
2003	WILCOTS Beatrice	Haines & Co Publishers

770 NORMAN RD E

Year	*Uses*	*Source*
2003	JORDAN Julia	Haines & Co Publishers

807 NORMAN RD E

Year	*Uses*	*Source*
2003	WINE Martha	Haines & Co Publishers

ORANGE SHOW RD

668 ORANGE SHOW RD

Year	*Uses*	*Source*
2003	PAYTON Wendell	Haines & Co Publishers

684 ORANGE SHOW RD

Year	*Uses*	*Source*
2003	CADDEL ENGINEERING	Haines & Co Publishers
	MCZEAL Sharon	Haines & Co Publishers
	MCZEAL Clarence	Haines & Co Publishers
	CADDEL Joseph	Haines & Co Publishers

FINDINGS

706 ORANGE SHOW RD

Year	Uses	Source
2003	CERVANTES Cynthia	Haines & Co Publishers

755 ORANGE SHOW RD

Year	Uses	Source
2003	ARMSTEAD Audrey	Haines & Co Publishers

PIONEER RD

650 PIONEER RD

Year	Uses	Source
1955	Harris Ray	Luskey Brothers& Co Publishers

663 PIONEER RD

Year	Uses	Source
1955	Dixon C D	Luskey Brothers& Co Publishers

664 PIONEER RD

Year	Uses	Source
1955	Feigans Mary Mrs	Luskey Brothers& Co Publishers

665 PIONEER RD

Year	Uses	Source
1955	Jourdan Harold	Luskey Brothers& Co Publishers

668 PIONEER RD

Year	Uses	Source
1955	Booth Lehomer	Luskey Brothers& Co Publishers

671 PIONEER RD

Year	Uses	Source
1955	Adams Marcellus	Luskey Brothers& Co Publishers

672 PIONEER RD

Year	Uses	Source
1955	White Willie	Luskey Brothers& Co Publishers
	Shaw Jos	Luskey Brothers& Co Publishers

FINDINGS

683 PIONEER RD

Year	*Uses*	*Source*
1955	Sims J G	Luskey Brothers& Co Publishers

688 PIONEER RD

Year	*Uses*	*Source*
1955	Steward John	Luskey Brothers& Co Publishers

PIONEER RD E

624 PIONEER RD E

Year	*Uses*	*Source*
2003	XXXX	Haines & Co Publishers

632 PIONEER RD E

Year	*Uses*	*Source*
2003	XXXX	Haines & Co Publishers

652 PIONEER RD E

Year	*Uses*	*Source*
2003	DURAN John	Haines & Co Publishers

668 PIONEER RD E

Year	*Uses*	*Source*
2003	PAYTON Wendell	Haines & Co Publishers

684 PIONEER RD E

Year	*Uses*	*Source*
2003	XXXX	Haines & Co Publishers

706 PIONEER RD E

Year	*Uses*	*Source*
2003	LOZOYA Mucio	Haines & Co Publishers

715 PIONEER RD E

Year	*Uses*	*Source*
2003	XXXX	Haines & Co Publishers

FINDINGS

PIONEER ST

715 PIONEER ST

Year	*Uses*	*Source*
1981	MIMS REV CLAUDE	General Telephone Company of California
1975	MIMS REV CLAUDE	General Telephone Company of California

717 PIONEER ST

Year	*Uses*	*Source*
1981	MOORE FLOYD J	General Telephone Company of California

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
602 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
604 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
605 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
605 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
609 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
611 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
614 E NORMAN RD	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
614 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
616 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
620 E NORMAN RD	2017, 2014, 2009, 2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
620 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
624 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
624 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
625 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
626 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
627 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
632 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
634 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
634 E NORMAN RD	2008, 2004, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
634 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
634 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
646 E ORANGE SHOW RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
648 E NORMAN RD	2017, 2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
650 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
652 E ORANGE SHOW RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
652 E ORANGE SHOW RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
652 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
652 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
652 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
663 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
664 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
664 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
664 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
665 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
667 E ORANGE SHOW RD	2017, 2014, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 E ORANGE SHOW RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 E ORANGE SHOW RD	2017, 2014, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 E PIONEER RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 ORANGE SHOW RD	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
668 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
670 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
670 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
671 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
672 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
676 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
678 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
682 E NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
683 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
684 E ORANGE SHOW RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
684 E ORANGE SHOW RD	2017, 2014, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
684 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
684 E PIONEER RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
684 ORANGE SHOW RD	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
684 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
685 685 695 NORMAN RD	2017, 2014, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
685 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
685 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
688 PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
694 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
694 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
696 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
697 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
703 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
706 E ORANGE SHOW RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
706 E ORANGE SHOW RD	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
706 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
706 E PIONEER RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
706 ORANGE SHOW RD	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
706 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
715 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
715 PIONEER RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
715 PIONEER ST	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
717 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
717 PIONEER ST	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
726 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
734 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

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Address Researched	Address Not Identified in Research Source
738 E NORMAN RD	2017, 2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
744 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
753 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
755 E ORANGE SHOW RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
755 E ORANGE SHOW RD	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
755 E PIONEER RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
755 E PIONEER RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
755 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
755 ORANGE SHOW RD	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
758 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
760 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
761 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
762 E NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
762 E NORMAN RD	2017, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
762 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
762 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

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Address Researched	Address Not Identified in Research Source
767 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
768 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
770 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
770 E NORMAN RD	2017, 2014, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
770 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
772 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
783 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
787 E PIONEER RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
787 N ORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
790 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
796 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
807 E NORMAN RD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
807 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
807 E NORMAN RD	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
807 N ORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
807 NORMAN RD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

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Address Researched	Address Not Identified in Research Source
807 NORMAN RD E	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
867 E NORMAN RD	2017, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
707 East Norman Road	2002, 1996, 1995, 1990, 1985, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Gateway South Building 9 Assemblage
707 East Norman Road
San Bernardino, CA 92408

Inquiry Number: 6958905.2s
April 28, 2022

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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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 (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

707 EAST NORMAN ROAD
SAN BERNARDINO, CA 92408

COORDINATES

Latitude (North):	34.0805810 - 34ˆ 4' 50.09''
Longitude (West):	117.2679970 - 117ˆ 16' 4.78''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	475273.9
UTM Y (Meters):	3770928.5
Elevation:	1037 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12016021 SAN BERNARDINO SOUTH, CA
Version Date:	2018
East Map:	12014994 REDLANDS, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
707 EAST NORMAN ROAD
SAN BERNARDINO, CA 92408

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	USAF NORTON AFB	305 S TIPPECANOE AVE	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-SQG, US ENG..	Same	4027, 0.763, North
A1		787 NORMAN RD	CDL	Higher	1 ft.
A2	BERNELL PAYTON TRUCK	745 E NORMAN RD	FINDS, ECHO	Higher	1 ft.
A3	BERNELL PAYTON TRUCK	745 E NORMAN RD	RCRA NonGen / NLR	Higher	1 ft.
B4	GREENWASTE SAN BERNA	595 E ORANGE SHOW RD	AST, San Bern. Co. Permit, WDS	Lower	553, 0.105, WSW
B5	AMAZON COM SERVICES	555 EAST ORANGE SHOW	CERS HAZ WASTE, HAZNET, NPDES, San Bern. Co....	Lower	774, 0.147, WSW
B6	AMAZON.COM SERVICES,	555 E ORANGE SHOW RD	RCRA-LQG	Lower	774, 0.147, WSW
C7	MYNOR AUTO SALES	976 HOPE ST	RCRA NonGen / NLR	Higher	956, 0.181, NE
C8	MYNOR AUTO SALES	976 HOPE ST	CERS HAZ WASTE, San Bern. Co. Permit, CERS, HWTS	Higher	956, 0.181, NE
D9	ORANGE OIL COMPANY	505 ORANGE SHOW RD	SWEEPS UST, CA FID UST	Lower	1087, 0.206, WSW
D10	TEXACO SERVICE STATI	505 ORANGE SHOW	RCRA-SQG, LUST, HIST UST, CERS	Lower	1087, 0.206, WSW
D11	HOME LUMBER COMPANY	24345 PIONEER STREET	HIST UST	Lower	1209, 0.229, West
D12	HOME LUMBER COMPANY,	24345 PIONEER ST	SWEEPS UST, CA FID UST	Lower	1209, 0.229, West
13	RAUB WELL 4R		PFAS	Lower	1230, 0.233, SW
E14	GAGE WELL 98-1		PFAS	Higher	1555, 0.295, SE
E15	TIPPECANOE WELL		PFAS	Higher	1611, 0.305, SE
16	RAUB WELL 07		PFAS	Lower	1611, 0.305, SW
17	GAGE WELL 51-1		PFAS	Higher	1698, 0.322, SE
F18	EAST VALLEY RECYCLIN	1150 S TIPPECANOE AV	PROC	Higher	1776, 0.336, East
19	GAGE WELL 26-1		PFAS	Higher	1938, 0.367, SSE
F20	EAST VALLEY RECYCLIN	1150 & 1250 SOUTH TI	SWF/LF, CERS	Higher	1958, 0.371, East
21	GAGE WELL 29-2		PFAS	Higher	1982, 0.375, ESE
22	NORTH SAN BERNARDINO	BUNKER HILL GROUNDWA	RESPONSE, ENVIROSTOR	Lower	2010, 0.381, NNW
23	RAUB WELL 5R		PFAS	Lower	2067, 0.391, WSW
24	CSCO SCREW COMPANY	775 UNIT 6-7 S. GIFF	ENVIROSTOR	Higher	2113, 0.400, North
G25	RAUB WELL 06		PFAS	Lower	2223, 0.421, WSW
G26	RAUB WELL 08		PFAS	Lower	2240, 0.424, West
H27	S AND G ROOFING SUPP	1444 TIPPECANOE AVE	LUST, Cortese, HIST CORTESE, CERS	Higher	2356, 0.446, ESE
I28	GAGE WELL 92-1		PFAS	Higher	2401, 0.455, East
29	GAGE WELL 27-1		PFAS	Higher	2451, 0.464, SSE
I30	GAGE WELL 29-3		PFAS	Higher	2468, 0.467, East
H31	SUPPORT SERVICES BUI	1333 TIPPECANOE AVE	LUST, Cortese, HIST CORTESE, CERS	Higher	2492, 0.472, ESE
J32	FRANK'S FENCE	1145	LUST, HIST CORTESE	Lower	2521, 0.477, West
J33	FRANK'S FENCE	1145 S WATERMAN AVE	LUST, Cortese, CERS	Lower	2521, 0.477, West
J34	NTI FUELING STATION	1195 SOUTH WATERMAN	LUST, Cortese, HAZNET, NPDES, San Bern. Co....	Lower	2531, 0.479, West
J35	VALLEY GAS / AUTO RE	1195	LUST, HIST CORTESE	Lower	2531, 0.479, West
36	FOAMEX INTERNATIONAL	1400 E VICTORIA AVE	HWP	Higher	3921, 0.743, ESE
K37	NORTON AIR FORCE BAS		FUDS	Higher	4486, 0.850, NE
K38	SAN BERNARDINO AAF		ENVIROSTOR	Higher	4489, 0.850, NE

MAPPED SITES SUMMARY

Target Property Address:
707 EAST NORMAN ROAD
SAN BERNARDINO, CA 92408

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K39	NORTON AFB - FUDS		ENVIROSTOR	Higher	4489, 0.850, NE
40	EOD FACILITY		UXO	Higher	5041, 0.955, North
41	BENEDICT PROPERTIES	101 BENEDICT ROAD	ENVIROSTOR	Lower	5211, 0.987, WNW

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

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
SEMS ---------- Superfund Enterprise Management System

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-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 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
UST ---------- Active UST 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
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
AQUEOUS FOAM ---------- Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

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
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
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
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
Notify 65	Proposition 65 Records
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
CIWQS California Integrated Water Quality System
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)
HWTS Hazardous Waste Tracking System
MINES MRDS Mineral Resources Data System

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 NPL (Superfund) sites

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 NPL

site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Cerclis ID:: 902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***N 1/2 - 1 (0.763 mi.)***	***0***	***9***

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 02/28/2022 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
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***N 1/2 - 1 (0.763 mi.)***	***0***	***9***

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 02/28/2022 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMAZON.COM SERVICES, EPA ID:: CAR000262626	555 E ORANGE SHOW RD	WSW 1/8 - 1/4 (0.147 mi.)	B6	116

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/28/2022 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO SERVICE STATI	***505 ORANGE SHOW***	***WSW 1/8 - 1/4 (0.206 mi.)***	***D10***	***133***

EPA ID:: CAR000116194

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 is 1 RESPONSE site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTH SAN BERNARDINO	***BUNKER HILL GROUNDWA***	***NNW 1/4 - 1/2 (0.381 mi.)***	***22***	***203***
Database: RESPONSE, Date of Government Version: 01/24/2022 Status: Refer: Other Agency Facility Id: 36990001				

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 01/24/2022 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CSCO SCREW COMPANY Facility Id: 36340067 Status: Refer: 1248 Local Agency	775 UNIT 6-7 S. GIFF	N 1/4 - 1/2 (0.400 mi.)	24	215
SAN BERNARDINO AAF Facility Id: 80000729 Status: Inactive - Needs Evaluation		NE 1/2 - 1 (0.850 mi.)	K38	277
NORTON AFB - FUDS Facility Id: 80000333 Status: Inactive - Needs Evaluation		NE 1/2 - 1 (0.850 mi.)	K39	278

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTH SAN BERNARDINO Facility Id: 36990001 Status: Refer: Other Agency	***BUNKER HILL GROUNDWA***	***NNW 1/4 - 1/2 (0.381 mi.)***	***22***	***203***
BENEDICT PROPERTIES	101 BENEDICT ROAD	WNW 1/2 - 1 (0.987 mi.)	41	279

Facility Id: 36000013
Status: Refer: 1248 Local Agency

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST VALLEY RECYCLIN	***1150 & 1250 SOUTH TI***	***E 1/4 - 1/2 (0.371 mi.)***	***F20***	***192***

Database: SWF/LF (SWIS), Date of Government Version: 11/08/2021
Facility ID: 36-AA-0453
Operational Status: Active
Regulation Status: Permitted

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 are 7 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S AND G ROOFING SUPP	***1444 TIPPECANOE AVE***	***ESE 1/4 - 1/2 (0.446 mi.)***	***H27***	***233***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 12/06/2021
Facility Status: Case Closed
Global Id: T0607100204
Status: Completed - Case Closed
Global ID: T0607100204

SUPPORT SERVICES BUI	***1333 TIPPECANOE AVE***	***ESE 1/4 - 1/2 (0.472 mi.)***	***H31***	***260***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 12/06/2021
Facility Status: Case Closed
Global Id: T0607100085
Status: Completed - Case Closed
Global ID: T0607100085

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO SERVICE STATI	***505 ORANGE SHOW***	***WSW 1/8 - 1/4 (0.206 mi.)***	***D10***	***133***

Database: LUST, Date of Government Version: 12/06/2021

Global Id: T0607195783
Global Id: T0607100097
Status: Completed - Case Closed

FRANK'S FENCE ***1145*** ***W 1/4 - 1/2 (0.477 mi.)*** ***J32*** ***264***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0607100126

FRANK'S FENCE ***1145 S WATERMAN AVE*** ***W 1/4 - 1/2 (0.477 mi.)*** ***J33*** ***265***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0607100126
Status: Completed - Case Closed

NTI FUELING STATION ***1195 SOUTH WATERMAN*** ***W 1/4 - 1/2 (0.479 mi.)*** ***J34*** ***268***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0607100624
Status: Completed - Case Closed

VALLEY GAS / AUTO RE ***1195*** ***W 1/4 - 1/2 (0.479 mi.)*** ***J35*** ***274***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0607100624

Lists of state and tribal registered storage tanks

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GREENWASTE SAN BERNA	***595 E ORANGE SHOW RD***	***WSW 0 - 1/8 (0.105 mi.)***	***B4***	***96***

Database: AST, Date of Government Version: 07/06/2016

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CDL: 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.

A review of the CDL list, as provided by EDR, and dated 12/31/2019 has revealed that there is 1 CDL site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	787 NORMAN RD	0 - 1/8 (0.000 mi.)	A1	93

Facility Id: 2003-05-039

EXECUTIVE SUMMARY

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 01/18/2022 has revealed that there are 2 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MYNOR AUTO SALES	***976 HOPE ST***	***NE 1/8 - 1/4 (0.181 mi.)***	***C8***	***126***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
AMAZON COM SERVICES	***555 EAST ORANGE SHOW***	***WSW 1/8 - 1/4 (0.147 mi.)***	***B5***	***98***

PFAS: A listing of PFAS contaminated sites included in the GeoTracker database.

A review of the PFAS list, as provided by EDR, and dated 12/06/2021 has revealed that there are 13 PFAS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAGE WELL 98-1		SE 1/4 - 1/2 (0.295 mi.)	E14	151
TIPPECANOE WELL		SE 1/4 - 1/2 (0.305 mi.)	E15	159
GAGE WELL 51-1		SE 1/4 - 1/2 (0.322 mi.)	17	175
GAGE WELL 26-1		SSE 1/4 - 1/2 (0.367 mi.)	19	183
GAGE WELL 29-2		ESE 1/4 - 1/2 (0.375 mi.)	21	195
GAGE WELL 92-1		E 1/4 - 1/2 (0.455 mi.)	I28	236
GAGE WELL 27-1		SSE 1/4 - 1/2 (0.464 mi.)	29	244
GAGE WELL 29-3		E 1/4 - 1/2 (0.467 mi.)	I30	252
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
RAUB WELL 4R		SW 1/8 - 1/4 (0.233 mi.)	13	143
RAUB WELL 07		SW 1/4 - 1/2 (0.305 mi.)	16	167
RAUB WELL 5R		WSW 1/4 - 1/2 (0.391 mi.)	23	207
RAUB WELL 06		WSW 1/4 - 1/2 (0.421 mi.)	G25	216
RAUB WELL 08		W 1/4 - 1/2 (0.424 mi.)	G26	225

Local Lists of Registered Storage Tanks

SWEEPS UST: 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.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ORANGE OIL COMPANY	***505 ORANGE SHOW RD***	***WSW 1/8 - 1/4 (0.206 mi.)***	***D9***	***131***
Status: A				
Tank Status: A				

Comp Number: 18451

HOME LUMBER COMPANY, ***24345 PIONEER ST*** ***W 1/8 - 1/4 (0.229 mi.)*** ***D12*** ***141***
Status: A
Tank Status: A
Comp Number: 44864

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO SERVICE STATI	***505 ORANGE SHOW***	***WSW 1/8 - 1/4 (0.206 mi.)***	***D10***	***133***
HOME LUMBER COMPANY Facility Id: 00000044864	24345 PIONEER STREET	W 1/8 - 1/4 (0.229 mi.)	D11	141

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ORANGE OIL COMPANY Facility Id: 36001148 Status: A	***505 ORANGE SHOW RD***	***WSW 1/8 - 1/4 (0.206 mi.)***	***D9***	***131***
HOME LUMBER COMPANY, Facility Id: 36009024 Status: A	***24345 PIONEER ST***	***W 1/8 - 1/4 (0.229 mi.)***	***D12***	***141***

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 02/28/2022 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNELL PAYTON TRUCK EPA ID:: CAL000289584	745 E NORMAN RD	0 - 1/8 (0.000 mi.)	A3	94
MYNOR AUTO SALES EPA ID:: CAL000267915	976 HOPE ST	NE 1/8 - 1/4 (0.181 mi.)	C7	123

EXECUTIVE SUMMARY

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 10/26/2021 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS		NE 1/2 - 1 (0.850 mi.)	K37	276

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB	***305 S TIPPECANOE AVE***	***N 1/2 - 1 (0.763 mi.)***	***0***	***9***
EPA ID:: CA4570024345				

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 11/04/2021 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNELL PAYTON TRUCK	***745 E NORMAN RD***	***0 - 1/8 (0.000 mi.)***	***A2***	***93***
Registry ID:: 110070456066				

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 01/01/2022 has revealed that there is 1 ECHO site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNELL PAYTON TRUCK	***745 E NORMAN RD***	***0 - 1/8 (0.000 mi.)***	***A2***	***93***
Registry ID: 110070456066				

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 12/31/2020 has revealed that there is 1 UXO site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EOD FACILITY		N 1/2 - 1 (0.955 mi.)	40	279

Cortese: 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).

A review of the Cortese list, as provided by EDR, and dated 12/16/2021 has revealed that there are 4 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S AND G ROOFING SUPP	***1444 TIPPECANOE AVE***	***ESE 1/4 - 1/2 (0.446 mi.)***	***H27***	***233***
Cleanup Status: COMPLETED - CASE CLOSED				
SUPPORT SERVICES BUI	***1333 TIPPECANOE AVE***	***ESE 1/4 - 1/2 (0.472 mi.)***	***H31***	***260***
Cleanup Status: COMPLETED - CASE CLOSED				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRANK'S FENCE	***1145 S WATERMAN AVE***	***W 1/4 - 1/2 (0.477 mi.)***	***J33***	***265***
Cleanup Status: COMPLETED - CASE CLOSED				
NTI FUELING STATION	***1195 SOUTH WATERMAN***	***W 1/4 - 1/2 (0.479 mi.)***	***J34***	***268***
Cleanup Status: COMPLETED - CASE CLOSED				

HIST CORTESE: 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.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S AND G ROOFING SUPP	***1444 TIPPECANOE AVE***	***ESE 1/4 - 1/2 (0.446 mi.)***	***H27***	***233***
Reg Id: 083601727T				
SUPPORT SERVICES BUI	***1333 TIPPECANOE AVE***	***ESE 1/4 - 1/2 (0.472 mi.)***	***H31***	***260***
Reg Id: 083600802T				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRANK'S FENCE	***1145***	***W 1/4 - 1/2 (0.477 mi.)***	***J32***	***264***
Reg Id: 083601117T				
VALLEY GAS / AUTO RE	***1195***	***W 1/4 - 1/2 (0.479 mi.)***	***J35***	***274***
Reg Id: 083603599T				

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 11/15/2021 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FOAMEX INTERNATIONAL EPA ID: CAT000646190 Cleanup Status: PROTECTIVE FILER	1400 E VICTORIA AVE	ESE 1/2 - 1 (0.743 mi.)	36	275

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 12/01/2021 has revealed that there are 3 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MYNOR AUTO SALES Facility Status: ACTIVE Facility Id: FA0013396	***976 HOPE ST***	***NE 1/8 - 1/4 (0.181 mi.)***	***C8***	***126***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GREENWASTE SAN BERNA Facility Status: INACTIVE Facility Id: FA0003852	***595 E ORANGE SHOW RD***	***WSW 0 - 1/8 (0.105 mi.)***	***B4***	***96***
AMAZON COM SERVICES Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Id: FA0017218	***555 EAST ORANGE SHOW***	***WSW 1/8 - 1/4 (0.147 mi.)***	***B5***	***98***

PROC: A listing of certified processors.

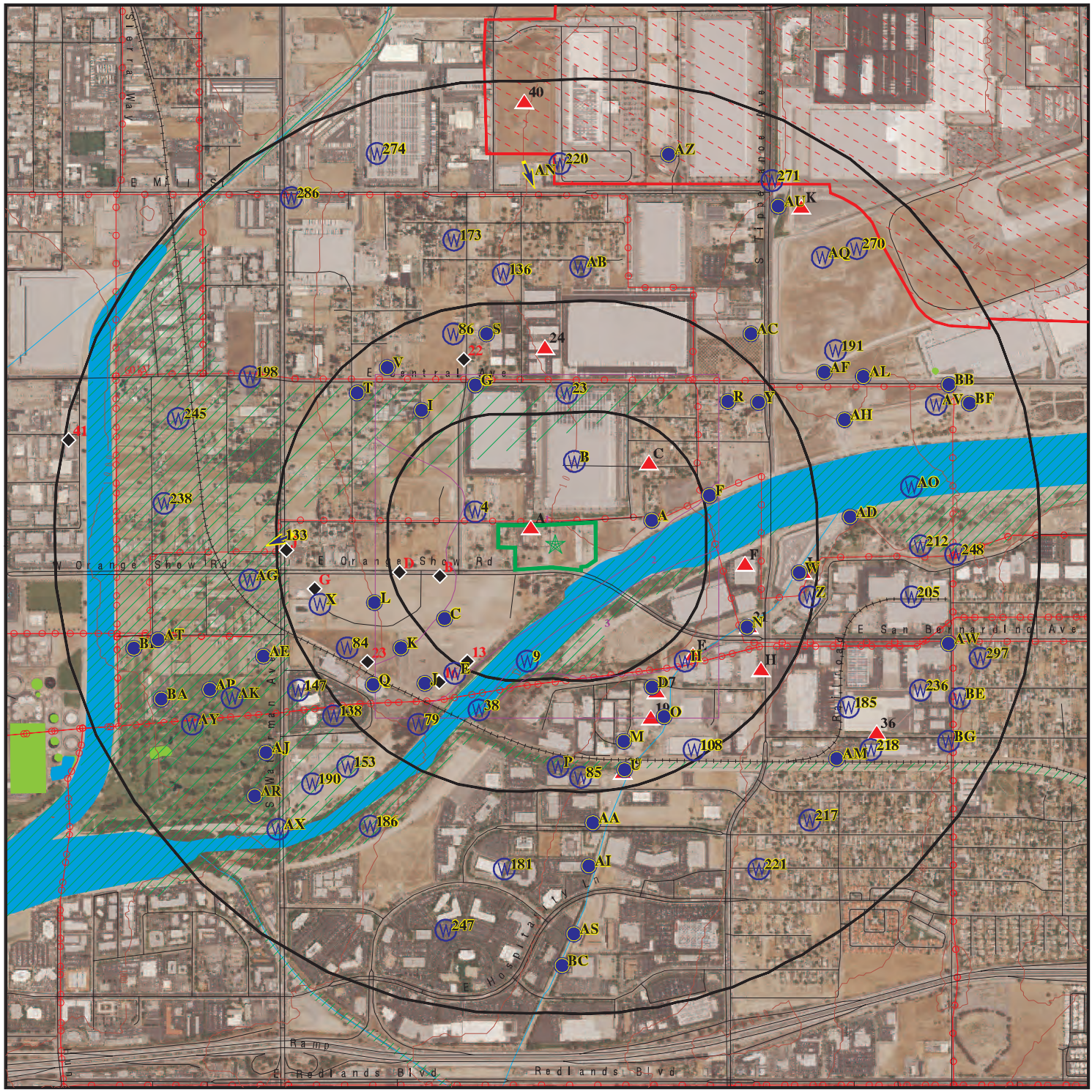
A review of the PROC list, as provided by EDR, and dated 11/29/2021 has revealed that there is 1 PROC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST VALLEY RECYCLIN Cert Id: PR160638.001 Reg Id: 160638	1150 S TIPPECANOE AV	E 1/4 - 1/2 (0.336 mi.)	F18	183

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 6958905.2S



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

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

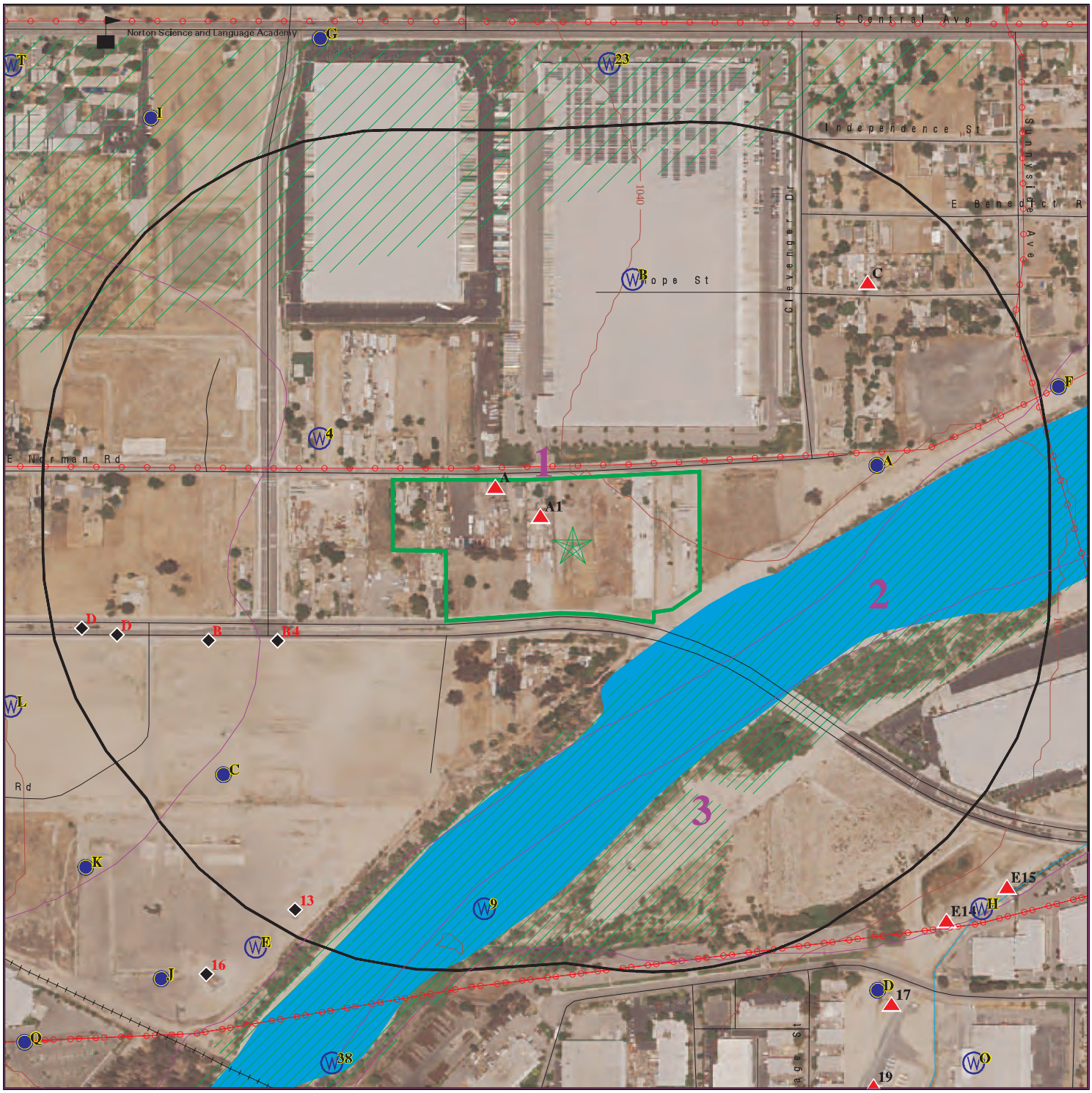
Areas of Concern

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:	Gateway South Building 9 Assemblage	CLIENT:	GeoSyntec Consultants
ADDRESS:	707 East Norman Road San Bernardino CA 92408	CONTACT:	Jackie Hyman
LAT/LONG:	34.080581 / 117.267997	INQUIRY #:	6958905.2s
		DATE:	April 28, 2022 8:54 am

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DETAIL MAP - 6958905.2S



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
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- 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:	Gateway South Building 9 Assemblage	CLIENT:	GeoSyntec Consultants
ADDRESS:	707 East Norman Road San Bernardino CA 92408	CONTACT:	Jackie Hyman
LAT/LONG:	34.080581 / 117.267997	INQUIRY #:	6958905.2s
		DATE:	April 28, 2022 8:55 am

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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	1	NR	1
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	0	NR	NR	0
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	1	NR	NR	NR	1
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	0	NR	1
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	2	3	NR	5
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	1	NR	NR	1

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	1	6	NR	NR	7
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	0	NR	NR	NR	0
AST	0.250		1	0	NR	NR	NR	1
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
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	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	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		1	NR	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	2	NR	NR	NR	2
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	1	12	NR	NR	13
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	2	NR	NR	NR	2
HIST UST	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	2	NR	NR	NR	2

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
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
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
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	1	NR	1
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	1	NR	1
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
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		1	NR	NR	NR	NR	1
ECHO	0.001		1	NR	NR	NR	NR	1
UXO	1.000		0	0	0	1	NR	1
DOCKET HWC	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
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	4	NR	NR	4
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
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	4	NR	NR	4
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	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		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		1	2	NR	NR	NR	3
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	1	NR	NR	1
Notify 65	1.000		0	0	0	0	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		0	NR	NR	NR	NR	0
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
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
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	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

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
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	6	15	31	9	0	61

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

NPL **USAF NORTON AFB** **NPL** **1000417274**
Region **305 S TIPPECANOE AVE** **SEMS** **CA4570024345**
North **SAN BERNARDINO, CA 92408** **CORRACTS**
1/2-1 **RCRA-TSDF**
4027 ft. **RCRA-SQG**
US ENG CONTROLS
US INST CONTROLS
ROD

NPL:

EPA Region:	9
EPA ID:	CA4570024345
Site ID:	902760
Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
Federal:	Y
Final Date:	1987-07-22 00:00:00
Latitude:	34.098061
Longitude:	-117.2372
Site Score:	39.649999999999999
NAI:	Not reported
Native American Entity:	Not reported

NPL:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	U211
CAS Number:	56-23-5
Substance:	CARBON TETRACHLORIDE
Pathway:	GROUND WATER PATHWAY
Scoring:	3

NPL Status:	Currently on the Final NPL
Substance ID:	U228
CAS Number:	79-01-6
Substance:	TRICHLOROETHYLENE (TCE)
Pathway:	GROUND WATER PATHWAY
Scoring:	2

Summary Details:

Conditions at proposal October 15, 1984): Norton Air Force Base covers approximately 2,036 acres 58 miles east of Los Angeles near the City of San Bernardino, San Bernardino County, California. It is in a low-lying alluvial plain surroundedon the north and east by the San Bernardino Mountain Range. The base began operations in 1942 and has served as a major overhaul center for jet engines and the general repair of aircraft. Since 1962, the facility has served as a Military Airlift Command Base. In addition, Norton formerly had the responsibility for providing maintenance and logistics for liquid-fuel intercontinental ballistic missiles. Past ha ardous waste management practices may have contributed to existingcontamination problems throughout the base. The practices include burial of drums and other unspecified materials; disposal of waste oils, solvents, and paint residues

USAF NORTON AFB (Continued) **1000417274**

into landfills, unlined pits, ponds, and drying beds; storage in leaking underground tanks; and spills of AVGAS, oils, solvents, PCBs, and acidic plating solutions. Industrial solvents have been used extensively on the base. Unknown quantities of spent solvents were disposed of in several base landfills.A well on the base has been contaminated with trichloroethylene TCE). The well water is currently being used in a blended system and is sampled quarterly to ensure that TCE is below the California State action level. The water is used by approximately ll,000 people who live and/or work on the base. Norton Air Force Base is participating in the Installation Restoration Program IRP), established in l978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. The Air Force has completed Phase I records search). Phase II remedial investigation) is underway. Status July 22, 1987): In November 1986, the California Regional Water Quality Control Board issued a Cleanup and Abatement Order requiring Norton to clean up one on-base area, the Industrial Waste Water Treatment Plant Sludge Drying Beds. Phase II-Stage 2 of the IRP was completed in December 1986. It focusedon characteri ation of the contamination at 18 on-base areas. More than 22 areas have been identified to date. Additional areas will be studied in Stage 3, scheduled to begin in the fall of 1987. Within the boundaries of this Federal facility, there are areas subject to the Subtitle C corrective action authorities of the Resource Conservation and Recovery Act RCRA). However, no such areas were included in scoring this specific site. Therefore, this Federal facility site isbeing placed on the Federal section of the NPL under the NPL/RCRA policy announced on September 8, 1983 48 FR 40662).

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 50 And <= 100 Feet
Category Value: 80

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: NORTON AIR FORCE BASE (LNDFLL #2)

NPL:
EPA Region: 09
Site ID: 0902760
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 07/22/87
Date Proposed: 10/15/84

NPL:
Proposed Date: 10/15/1984
Final Date: 07/22/1987
Deleted Date: Not reported
NPL Status: Final

USAF NORTON AFB (Continued) **1000417274**

SEMS:
Site ID: 0902760
EPA ID: CA4570024345
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
Cong District: 31,40
FIPS Code: 06071
Latitude: 34.098061
Longitude: -117.237200
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 1989-04-30 04:00:00
Finish Date: 6/30/1994 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 2000-07-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1988-06-01 04:00:00

USAF NORTON AFB (Continued) **1000417274**

Finish Date:	6/1/1988 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	2006-05-16 04:00:00
Finish Date:	5/16/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	1987-09-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1993-11-24 05:00:00
Finish Date:	11/24/1993 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	EE

USAF NORTON AFB (Continued) **1000417274**

Action Name:	EE/CA
SEQ:	1
Start Date:	1996-03-29 05:00:00
Finish Date:	3/29/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	OM
Action Name:	OM
SEQ:	2
Start Date:	1999-11-28 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1989-06-29 04:00:00
Finish Date:	11/24/1993 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LX
Action Name:	FF RD
SEQ:	1
Start Date:	1993-11-24 05:00:00
Finish Date:	9/16/1994 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F

USAF NORTON AFB (Continued) **1000417274**

FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1984-10-15 05:00:00
Finish Date:	10/15/1984 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	2005-09-29 04:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	R
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	3
Start Date:	1998-10-01 04:00:00
Finish Date:	6/10/2003 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760

USAF NORTON AFB (Continued) **1000417274**

EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	6
Start Date:	1996-03-25 05:00:00
Finish Date:	4/22/1997 4:00:00 AM
Qual:	P
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	1996-04-25 04:00:00
Finish Date:	9/30/1999 4:00:00 AM
Qual:	S
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	8
Start Date:	1996-04-18 04:00:00
Finish Date:	12/19/1997 5:00:00 AM
Qual:	P
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	9
Start Date:	1997-06-30 04:00:00
Finish Date:	12/8/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

USAF NORTON AFB (Continued) **1000417274**

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	11
Start Date:	1997-06-25 04:00:00
Finish Date:	12/8/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	12
Start Date:	1996-04-15 04:00:00
Finish Date:	7/22/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	1996-07-26 04:00:00
Finish Date:	12/21/2005 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	1991-01-04 05:00:00
Finish Date:	4/8/1992 4:00:00 AM

USAF NORTON AFB (Continued) **1000417274**

Qual:	C
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1997-06-25 04:00:00
Finish Date:	6/25/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1987-07-22 04:00:00
Finish Date:	7/22/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA

USAF NORTON AFB (Continued) **1000417274**

SEQ:	1
Start Date:	1994-09-16 04:00:00
Finish Date:	7/26/1996 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	1995-12-21 05:00:00
Finish Date:	7/28/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	13
Start Date:	2004-02-02 05:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	14
Start Date:	2003-11-24 05:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y

USAF NORTON AFB (Continued) **1000417274**

OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 15
Start Date: 2003-12-17 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 16
Start Date: 2003-12-11 05:00:00
Finish Date: 12/3/2004 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 17
Start Date: 1996-09-20 04:00:00
Finish Date: 11/15/1996 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 8/1/1980 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

CORRACTS:
Name: USAF NORTON AFB

USAF NORTON AFB (Continued) **1000417274**

Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMS WORKPLAN APPROVED
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMS COMPLETE
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMI WORKPLAN APPROVED
Actual Date: 19941007
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported

USAF NORTON AFB (Continued) **1000417274**

Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION and TREATMENT
Actual Date: 19890713
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20000522
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 20000522
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 19980618
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345

USAF NORTON AFB (Continued) **1000417274**

Area Name: ENTIRE FACILITY
Corrective Action: REMEDY DECISION
Actual Date: 19931124
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Actual Date: 19950601
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Click this hyperlink while viewing on your computer to access
1 additional CORRACTS: record(s) in the EDR Site Report.

RCRA-SQG:
Date Form Received by Agency: 19960901
Handler Name: USAF NORTON AFB
Handler Address: 305 S TIPPECANOE AVE
Handler City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
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: Federal
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities, Corrective Action Activities
State District Owner: CA
State District: 4
Mailing Address: 63RD CIV ENG SQU/DEEV
Mailing City,State,Zip: NORTON AFB, CA 92409
Owner Name: Not reported
Owner Type: Not reported
Operator Name: MULTIPLE OPS - USAF & DPDO
Operator Type: Federal
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility Activity: No
Recycler Activity with Storage: No

USAF NORTON AFB (Continued) **1000417274**

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 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
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not Accomplished
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20060905
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NORTON AFB
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92409
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large 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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19960901
Handler Name: USAF NORTON AFB	
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

USAF NORTON AFB (Continued) **1000417274**

Receive Date: 19800818
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900417
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920228
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960311
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

USAF NORTON AFB (Continued) **1000417274**

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 Code:	2349
NAICS Description:	OTHER HEAVY CONSTRUCTION
NAICS Code:	23552
NAICS Description:	FLOOR LAYING AND OTHER FLOOR CONTRACTORS
NAICS Code:	332813
NAICS Description:	ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
NAICS Code:	336411
NAICS Description:	AIRCRAFT MANUFACTURING
NAICS Code:	48811
NAICS Description:	AIRPORT OPERATIONS
NAICS Code:	56121
NAICS Description:	FACILITIES SUPPORT SERVICES
NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR
NAICS Code:	81292
NAICS Description:	PHOTOFINISHING
NAICS Code:	92411
NAICS Description:	ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS
NAICS Code:	92811
NAICS Description:	NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19870820
Actual Return to Compliance Date: 19880726
Return to Compliance Qualifier: Unverifiable
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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:	TSD - General
Date Violation was Determined:	19870623
Actual Return to Compliance Date:	19870806
Return to Compliance Qualifier:	Observed
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

USAF NORTON AFB (Continued) **1000417274**

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: TSD - General
Date Violation was Determined: 19891030
Actual Return to Compliance Date: 19900314
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900314
Enforcement Identifier: 004
Date of Enforcement Action: 19891211
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
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

USAF NORTON AFB (Continued) **1000417274**

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: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19880726
Actual Return to Compliance Date: 19891030
Return to Compliance Qualifier: Unverifiable
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

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
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:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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:	TSD - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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
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

USAF NORTON AFB (Continued) **1000417274**

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: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 20030422
Actual Return to Compliance Date: 20050727
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20050316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

USAF NORTON AFB (Continued) **1000417274**

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: WRITTEN INFORMAL
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
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

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
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:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
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

USAF NORTON AFB (Continued) **1000417274**

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:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	20030422
Actual Return to Compliance Date:	20050727
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20050317
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
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

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19910227
Actual Return to Compliance Date:	19910516
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910712
Enforcement Identifier:	005
Date of Enforcement Action:	19910412
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
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:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
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:	TSD - General
Date Violation was Determined:	19870623
Actual Return to Compliance Date:	19870806
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19870806
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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
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

USAF NORTON AFB (Continued) **1000417274**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19870820
Actual Return to Compliance Date: 19880726
Return to Compliance Qualifier: Unverifiable
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: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

USAF NORTON AFB (Continued) **1000417274**

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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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

USAF NORTON AFB (Continued) **1000417274**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19930308
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19940128
Scheduled Compliance Date: 19930513
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19870820
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19880726
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: 20080619
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
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: 19870730
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

USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
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:	20160419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
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:	19891030
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900314
Scheduled Compliance Date:	19900314
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI

USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
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:	20170413
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19880726
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891030
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:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
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:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070411
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	20050622
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870730
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
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:	19940126
Evaluation Responsible Agency:	State

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
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:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
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:	20150429
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
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:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619

USAF NORTON AFB (Continued) **1000417274**

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:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
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:	19910227
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910516
Scheduled Compliance Date:	19910712
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
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:	20060425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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

USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
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:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	USAF NORTON AFB	
Handler Address:		305 S TIPPECANOE AVE
Handler City,State,Zip:		SAN BERNARDINO, CA 92408
EPA ID:		CA4570024345
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:		Federal
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities, Corrective Action Activities
State District Owner:		CA
State District:		4
Mailing Address:		63RD CIV ENG SQU/DEEV
Mailing City,State,Zip:		NORTON AFB, CA 92409
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		MULTIPLE OPS - USAF & DPDO
Operator Type:		Federal
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		Yes
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 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
Active Site State-Reg Handler:		---
Federal Facility Indicator:		The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Storage, Treatment
2018 GPRA Permit Baseline:		Not Accomplished
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Storage, Treatment
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported

USAF NORTON AFB (Continued) **1000417274**

202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20060905
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Date Ended Current:	Not reported
Owner/Operator Address:	NORTON AFB
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92409
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large 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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960901
Handler Name: USAF NORTON AFB	
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: USAF NORTON AFB	
Federal Waste Generator Description:	Large 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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19900417
Handler Name: NORTON AIR FORCE BASE	
Federal Waste Generator Description:	Large Quantity Generator
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

USAF NORTON AFB (Continued) **1000417274**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920228
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960311
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 2349
NAICS Description: OTHER HEAVY CONSTRUCTION

NAICS Code: 23552
NAICS Description: FLOOR LAYING AND OTHER FLOOR CONTRACTORS

NAICS Code: 332813
NAICS Description: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

NAICS Code: 336411
NAICS Description: AIRCRAFT MANUFACTURING

NAICS Code: 48811

USAF NORTON AFB (Continued) **1000417274**

NAICS Description: AIRPORT OPERATIONS

NAICS Code: 56121
NAICS Description: FACILITIES SUPPORT SERVICES

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

NAICS Code: 81292
NAICS Description: PHOTOFINISHING

NAICS Code: 92411
NAICS Description: ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
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:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
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

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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: TSD - General
Date Violation was Determined: 19870623
Actual Return to Compliance Date: 19870806
Return to Compliance Qualifier: Observed
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

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19891030
Actual Return to Compliance Date:	19900314
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19900314
Enforcement Identifier:	004
Date of Enforcement Action:	19891211
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
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:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
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:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19880726
Actual Return to Compliance Date:	19891030
Return to Compliance Qualifier:	Unverifiable
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:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
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

USAF NORTON AFB (Continued) **1000417274**

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: TSD - General
Date Violation was Determined: 19920515
Actual Return to Compliance Date: 19920619
Return to Compliance Qualifier: Observed
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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: TSD - General
Date Violation was Determined: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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

USAF NORTON AFB (Continued) **1000417274**

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
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

USAF NORTON AFB (Continued) **1000417274**

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: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 20030422
Actual Return to Compliance Date: 20050727
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20050316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
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

USAF NORTON AFB (Continued) **1000417274**

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:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
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

USAF NORTON AFB (Continued) **1000417274**

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: 19920515
Actual Return to Compliance Date: 19920619
Return to Compliance Qualifier: Observed
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

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	20030422
Actual Return to Compliance Date:	20050727
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20050317
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
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:	TSD - General
Date Violation was Determined:	19910227
Actual Return to Compliance Date:	19910516
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910712
Enforcement Identifier:	005
Date of Enforcement Action:	19910412
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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: TSD - General
Date Violation was Determined: 19870623
Actual Return to Compliance Date: 19870806
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19870806
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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

USAF NORTON AFB (Continued) **1000417274**

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:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
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

USAF NORTON AFB (Continued) **1000417274**

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: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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

USAF NORTON AFB (Continued) **1000417274**

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
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: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
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: 19930308
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19940128
Scheduled Compliance Date: 19930513
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19870820
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA

USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
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:	20080619
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19870730
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:	19870623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
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:	20160419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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

USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
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:	19891030
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900314
Scheduled Compliance Date:	19900314
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
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:	20170413
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19880726
Evaluation Responsible Agency:	EPA

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891030
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:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
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:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
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:	20070411
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	20050622
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

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:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870730
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
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:	19940126
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
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:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	20150429
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
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:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
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:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
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:	19910227
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910516
Scheduled Compliance Date:	19910712
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
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:	20060425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
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:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
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:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

SIte:
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
Event Code: Not reported
Action Taken Date: 09/29/2005
EPA ID: CA4570024345
Action Name: Record of Decision
Action ID: 2
Operable Unit: 02
Contaminated Media: Soil
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2005
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

Media:
EPA ID: CA4570024345
Contaminated Media: Air
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Debris
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

USAF NORTON AFB (Continued) **1000417274**

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993

USAF NORTON AFB (Continued) **1000417274**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994

USAF NORTON AFB (Continued) **1000417274**

NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345

USAF NORTON AFB (Continued) **1000417274**

Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL

USAF NORTON AFB (Continued) **1000417274**

Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200
EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200
EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	06/25/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200
EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	06/25/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

USAF NORTON AFB (Continued) **1000417274**

US INST CONTROLS:

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	3
Operable Unit:	02
Actual Date:	06/25/1997
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	01
Actual Date:	11/24/1993
Contaminated Media:	Groundwater
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	01
Actual Date:	11/24/1993
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Action Name: Record of Decision
Action ID: 2
Operable Unit: 02
Actual Date: 09/29/2005
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2005
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

ROD:
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
RG: 9
Site ID: 902760
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: CENTRAL BASE AREA
SEQ ID: 1
Action Completion: 1993-11-24 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
RG: 9
Site ID: 902760
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: BASEWIDE
SEQ ID: 2
Action Completion: 2005-09-29 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB

USAF NORTON AFB (Continued) **1000417274**

City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
RG: 9
Site ID: 902760
Action: GOVT Decision Document (ROD)
Operable Unit Number: BASEWIDE
SEQ ID: 3
Action Completion: 1997-06-25 00:00:00
NPL Status: Final
Non NPL Status: Not reported

A1 **CDL** **S107536354**
787 NORMAN RD **N/A**
< 1/8 **SAN BERNARDINO, CA 92415**
1 ft.

Site 1 of 3 in cluster A

Relative: Higher **Actual: 1039 ft.**

CDL:
Name: Not reported
Address: 787 NORMAN RD
City,State,Zip: SAN BERNARDINO, CA 92415
Facility ID: 2003-05-039
Date: 05/07/2003
Labtype: Illegal Drug lab
Lab Type: Illegal Drug Lab (L) - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

A2 **BERNELL PAYTON TRUCKING** **FINDS** **1024667672**
745 E NORMAN RD **ECHO** **N/A**
< 1/8 **SAN BERNARDINO, CA 92408**
1 ft.

Site 2 of 3 in cluster A

Relative: Higher **Actual: 1039 ft.**

FINDS:
Registry ID: 110070456066

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1024667672
Registry ID: 110070456066
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070456066
Name: BERNELL PAYTON TRUCKING
Address: 745 E NORMAN RD
City,State,Zip: SAN BERNARDINO, CA 92408

A3 **BERNELL PAYTON TRUCKING** **RCRA NonGen / NLR** **1024810416**
745 E NORMAN RD **CAL000289584**
< 1/8 **SAN BERNARDINO, CA 92408**
1 ft.

Site 3 of 3 in cluster A

Relative: **Higher**
Actual: **1039 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20041222
Handler Name:	BERNELL PAYTON TRUCKING
Handler Address:	745 E NORMAN RD
Handler City,State,Zip:	SAN BERNARDINO, CA 92408-2405
EPA ID:	CAL000289584
Contact Name:	BERNELL PAYTON
Contact Address:	2924 N RIVERSIDE AVE
Contact City,State,Zip:	RIALTO, CA 92377
Contact Telephone:	951-315-2412
Contact Fax:	909-820-5906
Contact Email:	LATONIA2924@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:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2924 N RIVERSIDE AVE
Mailing City,State,Zip:	RIALTO, CA 92377-1093
Owner Name:	BERNELL PAYTON
Owner Type:	Other
Operator Name:	BERNELL PAYTON
Operator Type:	Other
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:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	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
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

BERNELL PAYTON TRUCKING (Continued) **1024810416**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20180905
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:	BERNELL PAYTON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2924 N RIVERSIDE AVE
Owner/Operator City,State,Zip:	RIALTO, CA 92377
Owner/Operator Telephone:	951-315-2412
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BERNELL PAYTON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2924 N RIVERSIDE AVE
Owner/Operator City,State,Zip:	RIALTO, CA 92377-1093
Owner/Operator Telephone:	909-820-5096
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

BERNELL PAYTON TRUCKING (Continued) **1024810416**

Historic Generators:
Receive Date: 20041222
Handler Name: BERNELL PAYTON TRUCKING
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: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 324191
NAICS Description: PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B4 **GREENWASTE SAN BERNARDINO** **AST** **S105558013**
WSW **595 E ORANGE SHOW RD** **San Bern. Co. Permit** **N/A**
< 1/8 **SAN BERNARDINO, CA 0** **WDS**
0.105 mi.
553 ft. **Site 1 of 3 in cluster B**

Relative:
Lower

Actual:
1029 ft.

AST:
Name: STOCK BUILDING SUPPLY
Address: 595 E ORANGE SHOW
City/Zip: SAN BERNARDINO,
Certified Unified Program Agencies: San Bernardino
Owner: STOCK BUILDING SUPPLY OF CAL,
Total Gallons: 3,570
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported

GREENWASTE SAN BERNARDINO (Continued) **S105558013**

Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

San Bern. Co. Permit:
Name: STOCK BUILDING SUPPLY
Address: 595 E ORANGE SHOW RD
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0003852
Owner: STOCK BUILDING SUPPLY OF CAL,
Permit Number: PT0009491
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2008

Name: STOCK BUILDING SUPPLY
Address: 595 E ORANGE SHOW RD
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0003852
Owner: STOCK BUILDING SUPPLY OF CAL,
Permit Number: PT0009490
Permit Category: HAZMAT HANDLER 51-100 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 04/30/2008

Name: STOCK BUILDING SUPPLY
Address: 595 E ORANGE SHOW RD
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0003852
Owner: STOCK BUILDING SUPPLY OF CAL,
Permit Number: PT0019930
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 04/30/2008

WDS:
Name: GREENWASTE SAN BERNARDINO
Address: 595 E ORANGE SHOW RD
City: SAN BERNARDINO
Facility ID: Santa Ana River 362700001
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: Not reported
Subregion: 8
Facility Telephone: Not reported
Facility Contact: CHUCK SMITH
Agency Name: CST
Agency Address: 223 LORETTA WAY

GREENWASTE SAN BERNARDINO (Continued) **S105558013**

Agency City,St,Zip:	CALIMESA 92320
Agency Contact:	CHUCK SMITH
Agency Telephone:	Not reported
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.

B5 **AMAZON COM SERVICES INC LGB5** **CERS HAZ WASTE** **S119085298**
WSW **555 EAST ORANGE SHOW ROAD** **HAZNET** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92408** **NPDES**
0.147 mi. **San Bern. Co. Permit**
774 ft. **Site 2 of 3 in cluster B** **CIWQS**
CERS
Relative: **HWTS**
Lower

Actual: **1027 ft.**

CERS HAZ WASTE:

Name:	AMAZON.COM SERVICES, LLC - LGB5
Address:	555 E ORANGE SHOW RD
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	409709
CERS ID:	10709515
CERS Description:	Hazardous Waste Generator

Name:	AMAZON.COM SERVICES, LLC - LGB5
Address:	555 E ORANGE SHOW RD
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	409709
CERS ID:	10709515
CERS Description:	RCRA LQ HW Generator

HAZNET:

Name:	AMAZON.COM SERVICES INC. - SNA7/8
Address:	555 E ORANGE SHOW RD
Address 2:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

City,State,Zip:	SAN BERNARDINO, CA 981080000
Contact:	ERIC CHAPMAN
Telephone:	2064134526
Mailing Name:	Not reported
Mailing Address:	P.O. BOX 80842
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	NVD980895338
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H070 -
Tons:	0.52750
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	CAD008364432
CA Waste Code:	725 - Liquids with mercury >= 20 Mg./L
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00150
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	NVD980895338
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H070 -
Tons:	0.00350
Year:	2019
Gepaid:	CAR000262626
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:	1.02550
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	CAD008364432
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.26350
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	AZR000515924
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:	9.24550
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	NVD980895338
CA Waste Code:	311 - Pharmaceutical waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.51050
Year:	2019
Gepaid:	CAR000262626
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:	0.07700
Year:	2019
Gepaid:	CAR000262626
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:	1.20550
Year:	2019
Gepaid:	CAR000262626
TSD EPA ID:	NVD980895338
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.14550

Click this hyperlink while viewing on your computer to access
44 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2017
Gen EPA ID:	CAR000262626
Shipment Date:	20171204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.161
Waste Quantity:	322
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.076
Waste Quantity:	152
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171211
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	U205
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.338
Waste Quantity:	676
Quantity Unit:	P
Additional Code 1:	U129
Additional Code 2:	D024
Additional Code 3:	D010
Additional Code 4:	D009
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171211
Manifest ID:	010798788FLE

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.082
Waste Quantity:	164
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171211
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2875
Waste Quantity:	575
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171211
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

TSDF Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.321
Waste Quantity:	2642
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.2475
Waste Quantity:	4495

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010798788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.077
Waste Quantity:	154
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

NPDES:

Name:	AMAZON COM SERVICES INC LGB5
Address:	555 EAST ORANGE SHOW ROAD
City,State,Zip:	SAN BERNARDINO, CA 92408
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	494608
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I027614
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/15/2018
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	NA Environmental Dept
Discharge Name:	Amazon com Services LLC
Discharge City:	Seattle
Discharge State:	Washington
Discharge Zip:	98108
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	494608
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I027614
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/15/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Golden State FC LLC
Discharge Address:	NA Environmental Dept
Discharge City:	Seattle
Discharge State:	Washington
Discharge Zip:	98108
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	GOLDENSTATE FC LLC SNA7
Address:	555 EAST ORANGE SHOW ROAD
City,State,Zip:	SAN BERNARDINO, CA 92408
Facility Status:	Not reported
NPDES Number:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36NEC002877
Regulatory Measure Type:	Industrial
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:	03/28/2018
Operator Name:	Amazon com Services LLC
Operator Address:	NA Environmental Dept
Operator City:	Seattle
Operator State:	Washington
Operator Zip:	98108

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	473726
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36NEC002877
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	12/29/2016
Processed Date:	01/04/2017
Status:	Active
Status Date:	01/04/2017
Place Size:	25.5
Place Size Unit:	Acres
Contact:	Lance Jones
Contact Title:	Environmental Manager
Contact Phone:	206-435-2754
Contact Phone Ext:	Not reported
Contact Email:	lancejon@amazon.com
Operator Name:	Golden State FC LLC
Operator Address:	ATTN: Lance Jones

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Operator City:	Seattle
Operator State:	Washington
Operator Zip:	98109
Operator Contact:	Cory Levengood
Operator Contact Title:	Sr Manager Environmental
Operator Contact Phone:	206-435-9175
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	levengoo@amazon.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Washington
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Kevin Winston
Certifier Title:	Senior Manager Environmental
Certification Date:	12-MAY-17
Primary Sic:	4225-General Warehousing and Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	473726
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36NEC002877
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/04/2017
Expiration Date Of Regulatory Measure:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Golden State FC LLC
Discharge Address:	NA Environmental Dept
Discharge City:	Seattle
Discharge State:	Washington
Discharge Zip:	98108
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	AMAZON COM SERVICES INC LGB5
Address:	555 EAST ORANGE SHOW ROAD
City,State,Zip:	SAN BERNARDINO, CA 92408
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:	8 36I027614
Regulatory Measure Type:	Industrial
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:	Active
Status Date:	02/15/2018
Operator Name:	Amazon com Services LLC
Operator Address:	NA Environmental Dept
Operator City:	Seattle
Operator State:	Washington
Operator Zip:	98108

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	494608
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I027614
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/15/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Golden State FC LLC
Discharge Address:	NA Environmental Dept
Discharge City:	Seattle
Discharge State:	Washington
Discharge Zip:	98108
Received Date:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

San Bern. Co. Permit:

Name:	AMAZON.COM SERVICES, LLC-LGB5
Address:	555 E ORANGE SHOW RD
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0017218
Owner:	AMAZON.COM SERVICES, LLC.
Permit Number:	PT0036689
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	12/31/2021

Name:	AMAZON.COM SERVICES, LLC-LGB5
Address:	555 E ORANGE SHOW RD
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0017218
Owner:	AMAZON.COM SERVICES, LLC.
Permit Number:	PT0036690
Permit Category:	RCRA LARGE QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	12/31/2021

Name:	AMAZON.COM SERVICES, LLC-LGB5
Address:	555 E ORANGE SHOW RD
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0017218
Owner:	AMAZON.COM SERVICES, LLC.
Permit Number:	PT0037665
Permit Category:	RCRA LQG GENERAL ACTIVITY(NB)
Facility Status:	FEE EXEMPT
Expiration Date:	12/31/2017

CIWQS:

Name:	AMAZON COM SERVICES INC LGB5
Address:	555 EAST ORANGE SHOW ROAD
City,State,Zip:	SAN BERNARDINO, CA 92408
Agency:	Amazon com Services LLC
Agency Address:	NA Environmental Dept PO Box 80842, Seattle, WA 98108
Place/Project Type:	Industrial - General Warehousing and Storage
SIC/NAICS:	4225
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I027614
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	02/15/2018
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.078157
Longitude: -117.27329

Name: GOLDENSTATE FC LLC SNA7
Address: 555 EAST ORANGE SHOW ROAD
City,State,Zip: SAN BERNARDINO, CA 92408
Agency: Amazon com Services LLC
Agency Address: NA Environmental Dept PO Box 80842, Seattle, WA 98108
Place/Project Type: Industrial - General Warehousing and Storage
SIC/NAICS: 4225
Region: 8
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 36NEC002877
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 01/04/2017
Termination Date: 03/01/2018
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: 34.079632
Longitude: -117.27148

CERS:
Name: AMAZON COM SERVICES INC LGB5
Address: 555 EAST ORANGE SHOW ROAD
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 526027
CERS ID: 861579
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Amazon com Services LLC
Entity Title: Operator
Affiliation Address: NA Environmental DeptPO Box 80842
Affiliation City: Seattle
Affiliation State: WA
Affiliation Country: Not reported
Affiliation Zip: 98108
Affiliation Phone: ,

Name: AMAZON.COM SERVICES, LLC - LGB5
Address: 555 E ORANGE SHOW RD
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 409709

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

CERS ID: 10709515
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 409709
Facility Name: Amazon.com Services, LLC - LGB5
Env Int Type Code: HMBP
Program ID: 10709515
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.079620
Longitude: -117.274170

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Environmental Contact
Entity Name: Cameron McGovern
Entity Title: Not reported
Affiliation Address: PO Box 80842
Affiliation City: Seattle
Affiliation State: WA
Affiliation Country: Not reported
Affiliation Zip: 98108
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Hillwood
Entity Title: Not reported
Affiliation Address: 901 Via Piemonte Suite 175
Affiliation City: Ontario
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91764
Affiliation Phone: (909) 256-5907,

Affiliation Type Desc: Parent Corporation
Entity Name: Amazon.com Services LLC
Entity Title: Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

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:	Attn: NA Environmental Team P.O. Box 80842
Affiliation City:	Seatle
Affiliation State:	WA
Affiliation Country:	Not reported
Affiliation Zip:	98108
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Cameron McGovern
Entity Title:	Business Environmental Leader
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:	Amazon.com Services, LLC
Entity Title:	Not reported
Affiliation Address:	PO Box 80842
Affiliation City:	Seattle
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98108
Affiliation Phone:	(206) 266-1036,
Affiliation Type Desc:	Operator
Entity Name:	Amazon.com Services, LLC - LGB5
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:	(909) 501-3050,

HWTS:

Name:	AMAZON.COM SERVICES LLC - LGB5
Address:	555 E ORANGE SHOW RD
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CAR000262626
Inactive Date:	Not reported
Create Date:	05/16/2016
Last Act Date:	Not reported

AMAZON COM SERVICES INC LGB5 (Continued) **S119085298**

Mailing Name:	Not reported
Mailing Address:	P.O. BOX 80842
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SEATTLE, WA 981080842
Owner Name:	GOLDEN STATE FC LLC
Owner Address:	P.O. BOX 80842
Owner Address 2:	Not reported
Owner City,State,Zip:	SEATTLE, WA 981080842
Contact Name:	JOS+e L+oPEZ-M+eNDEZ
Contact Address:	P.O. BOX 80842
Contact Address 2:	Not reported
City,State,Zip:	SEATTLE, WA 98108
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.07959318
Longitude:	-117.2741309

NAICS:

EPA ID:	CAR000262626
Create Date:	2019-09-06 10:46:26.027
NAICS Code:	493110
NAICS Description:	General Warehousing and Storage
Issued EPA ID Date:	2016-05-16 14:40:49.70000
Inactive Date:	Not reported
Facility Name:	AMAZON.COM SERVICES, INC. - SNA7/8
Facility Address:	555 E ORANGE SHOW RD
Facility Address 2:	Not reported
Facility City:	SAN BERNARDINO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92408

B6 **AMAZON.COM SERVICES, LLC - LGB5** **RCRA-LQG** **1018274042**
WSW **555 E ORANGE SHOW RD** **CAR000262626**
1/8-1/4 **SAN BERNARDINO, CA 92408**
0.147 mi.
774 ft. **Site 3 of 3 in cluster B**

Relative: **Lower**

Actual: **1027 ft.**

RCRA-LQG:

Date Form Received by Agency:	20200227
Handler Name:	AMAZON.COM SERVICES, LLC - LGB5
Handler Address:	555 E ORANGE SHOW RD
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CAR000262626
Contact Name:	NATALIE WAID
Contact Address:	P.O. BOX 80842
Contact City,State,Zip:	SEATTLE, WA 98108
Contact Telephone:	206-413-4526
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2019

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	P.O. BOX 80842
Mailing City,State,Zip:	SEATTLE, WA 98108
Owner Name:	ORS DEVELOPMENT, LLC
Owner Type:	Private
Operator Name:	AMAZON.COM SERVICES, LLC
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 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
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

Handler Date of Last Change:	20200923
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: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D016
Waste Description:	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D027
Waste Description:	1,4-DICHLOROBENZENE

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOLDEN STATE FC LLC
Legal Status:	Private
Date Became Current:	20160325
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 80842
Owner/Operator City,State,Zip:	SEATTLE, WA 98108
Owner/Operator Telephone:	206-413-4526
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAFC-ENVIRONMENTAL@AMAZON.COM

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ORS DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	20150423
Date Ended Current:	Not reported
Owner/Operator Address:	3090 OLIVE STE STE 300
Owner/Operator City,State,Zip:	DALLAS, TX 75219
Owner/Operator Telephone:	972-201-2800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	AMAZON.COM SERVICES, INC.
Legal Status:	Private
Date Became Current:	20160325
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 80842
Owner/Operator City,State,Zip:	SEATTLE, WA 98108
Owner/Operator Telephone:	206-413-4526
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAFC-ENVIRONMENTAL@AMAZON.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	AMAZON.COM SERVICES, LLC
Legal Status:	Private
Date Became Current:	20160325
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 80842

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

Owner/Operator City,State,Zip:	SEATTLE, WA 98108
Owner/Operator Telephone:	206-413-4526
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ORS DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	20150424
Date Ended Current:	Not reported
Owner/Operator Address:	3090 OLIVE STE STE 300
Owner/Operator City,State,Zip:	DALLAS, TX 75219
Owner/Operator Telephone:	972-201-2800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	AMAZON.COM SERVICES, LLC
Legal Status:	Private
Date Became Current:	20160325
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 80842
Owner/Operator City,State,Zip:	SEATTLE, WA 98108
Owner/Operator Telephone:	206-413-4526
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAFC-ENVIRONMENTAL@AMAZON.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ORS DEVELOPMENT, LLC
Legal Status:	Private
Date Became Current:	20150424
Date Ended Current:	Not reported
Owner/Operator Address:	3090 OLIVE STREET
Owner/Operator City,State,Zip:	DALLAS, TX 75219
Owner/Operator Telephone:	972-201-2800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ORS DEVELOPMENT, LLC
Legal Status:	Private
Date Became Current:	20150424
Date Ended Current:	Not reported
Owner/Operator Address:	3090 OLIVE STREET
Owner/Operator City,State,Zip:	DALLAS, TX 75219
Owner/Operator Telephone:	972-201-2800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOLDEN STATE FC LLC
Legal Status:	Private

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

Date Became Current:	20160324
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

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ORS DEVELOPMENT, LLC
Legal Status:	Private
Date Became Current:	20150424
Date Ended Current:	Not reported
Owner/Operator Address:	3090 OLIVE STREET
Owner/Operator City,State,Zip:	DALLAS, TX 75219
Owner/Operator Telephone:	972-201-2800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOLDEN STATE FC LLC
Legal Status:	Private
Date Became Current:	20160325
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

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ORS DEVELOPMENT, LLC
Legal Status:	Private
Date Became Current:	20150424
Date Ended Current:	Not reported
Owner/Operator Address:	3090 OLIVE STREET
Owner/Operator City,State,Zip:	DALLAS, TX 75219
Owner/Operator Telephone:	972-201-2800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180221
Handler Name:	GOLDEN STATE FC LLC (SNA7/8)
Federal Waste Generator Description:	Large Quantity Generator
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

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

Electronic Manifest Broker: No

Receive Date: 20200227
Handler Name: AMAZON.COM SERVICES, LLC - LGB5
Federal Waste Generator Description: Large Quantity Generator
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

Receive Date: 20160421
Handler Name: GOLDEN STATE FC LLC (SNA7/8)
Federal Waste Generator Description: Small Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20161214
Handler Name: GOLDEN STATE FC LLC (SNA7/8)
Federal Waste Generator Description: Large Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20181221
Handler Name: AMAZON.COM SERVICES, INC. - SNA7/8
Federal Waste Generator Description: Large Quantity Generator
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: 20190905
Handler Name: AMAZON.COM SERVICES, LLC - LGB5
Federal Waste Generator Description: Large Quantity Generator

AMAZON.COM SERVICES, LLC - LGB5 (Continued) **1018274042**

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

List of NAICS Codes and Descriptions:

NAICS Code:	493110
NAICS Description:	GENERAL WAREHOUSING AND STORAGE

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C7 **MYNOR AUTO SALES** **RCRA NonGen / NLR** **1024806251**
NE **976 HOPE ST** **CAL000267915**
1/8-1/4 **SAN BERNARDINO, CA 92408**
0.181 mi.
956 ft. **Site 1 of 2 in cluster C**

Relative: **Higher**

Actual: **1047 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20030319
Handler Name:	MYNOR AUTO SALES	
Handler Address:		976 HOPE ST
Handler City,State,Zip:		SAN BERNARDINO, CA 92408
EPA ID:		CAL000267915
Contact Name:		MYNOR SAGASTUME
Contact Address:		976 HOPE ST
Contact City,State,Zip:		SAN BERNARDINO, CA 92408
Contact Telephone:		909-890-4340
Contact Fax:		909-890-0286
Contact Email:		MYNORCARSALES@SBCGLOBAL.NET
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:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		976 HOPE ST
Mailing City,State,Zip:		SAN BERNARDINO, CA 92408-0000
Owner Name:		MYNOR SAGASTUME
Owner Type:		Other
Operator Name:		MYNOR SAGASTUME
Operator Type:		Other
Short-Term Generator Activity:		No

MYNOR AUTO SALES (Continued) **1024806251**

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:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	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
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20180905
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

MYNOR AUTO SALES (Continued) **1024806251**

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MYNOR SAGASTUME
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	976 HOPE ST
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408
Owner/Operator Telephone:	909-890-4340
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MYNOR SAGASTUME
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	976 HOPE ST
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408-0000
Owner/Operator Telephone:	909-890-4340
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20030319
Handler Name: MYNOR AUTO SALES	
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:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44112
NAICS Description:	USED CAR DEALERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C8 **MYNOR AUTO SALES** **CERS HAZ WASTE** **S110496999**
NE **976 HOPE ST** **San Bern. Co. Permit** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92408** **CERS**
0.181 mi. **HWTS**
956 ft. **Site 2 of 2 in cluster C**

Relative: Higher

Actual: 1047 ft.

CERS HAZ WASTE:
Name: MYNOR AUTO SALES
Address: 976 HOPE ST
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 50808
CERS ID: 10311583
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: MYNOR AUTO SALES
Address: 976 HOPE ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0013396
Owner: SAGASTUME, MYNOR
Permit Number: PT0023610
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2022

Name: MYNOR AUTO SALES
Address: 976 HOPE ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0013396
Owner: SAGASTUME, MYNOR
Permit Number: PT0036786
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2022

CERS:
Name: MYNOR AUTO SALES
Address: 976 HOPE ST
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 50808
CERS ID: 10311583
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 50808
Site Name: MYNOR AUTO SALES
Violation Date: 07-08-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/08/2013. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31)
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 50808

MYNOR AUTO SALES (Continued) **S110496999**

Site Name:	MYNOR AUTO SALES
Violation Date:	07-08-2013
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/08/2013. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	50808
Site Name:	MYNOR AUTO SALES
Violation Date:	07-08-2013
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/08/2013. Failure to manage hazardous waste lawfully (CHSC 25154)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	50808
Site Name:	MYNOR AUTO SALES
Violation Date:	10-23-2019
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 11/18/2019. OBSERVATION: Facility stores hazardous materials above the reportable quantities (55 gallons for liquids, 500 pounds for solids, and/or 200 cubic feet for compressed gases) and has not obtained a current hazardous material handler permit with this Division. CORRECTIVE ACTION: Obtain a hazardous materials handler permit by submitting a business plan via the California Environmental Reporting System (CERS) at https://cers.calepa.ca.gov/. Pay permit fees upon receipt of invoice.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	50808
Site Name:	MYNOR AUTO SALES
Violation Date:	10-23-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 11/19/2019. OBSERVATION: At the time of the inspection (1) 55 gallon drum of used oil and (1) 55 gallon drum of drained used oil filters were observed without a hazardous waste label. CORRECTIVE ACTION: Submit a signed statement to this department demonstrating that the containers listed above have been properly labeled.

MYNOR AUTO SALES (Continued) **S110496999**

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 50808
Site Name: MYNOR AUTO SALES
Violation Date: 10-23-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/14/2019. OBSERVATION: Last business plan submittal for this facility was done on 12/8/2016. CORRECTIVE ACTION: Review and certify the business plan via CERS. Your CERS ID number is 10311583.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-08-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

MYNOR AUTO SALES (Continued) **S110496999**

Enforcement Action:

Site ID:	50808
Site Name:	MYNOR AUTO SALES
Site Address:	976 HOPE ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	07-08-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	50808
Facility Name:	MYNOR AUTO SALES
Env Int Type Code:	HWG
Program ID:	10311583
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	34.083190
Longitude:	-117.264040

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	JOHNNY SAGASTUME
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:	976 HOPE ST
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Johnny Sagastume
Entity Title:	MANAGER
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:	Parent Corporation

MYNOR AUTO SALES (Continued) **S110496999**

Entity Name: MYNOR AUTO SALES
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: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Operator
Entity Name: MYNOR SAGASTUME
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: (909) 890-4340,

Affiliation Type Desc: Environmental Contact
Entity Name: MYNOR SAGASTUME
Entity Title: Not reported
Affiliation Address: 976 HOPE ST
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92408
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: SAGASTUME, MYNOR
Entity Title: Not reported
Affiliation Address: 976 HOPE ST
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92408
Affiliation Phone: (909) 890-4340,

HWTS:
Name: MYNOR AUTO SALES
Address: 976 HOPE ST
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CAL000267915
Inactive Date: Not reported

MYNOR AUTO SALES (Continued) **S110496999**

Create Date:	03/19/2003
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	976 HOPE ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN BERNARDINO, CA 924080000
Owner Name:	MYNOR SAGASTUME
Owner Address:	976 HOPE ST
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN BERNARDINO, CA 924080000
Contact Name:	MYNOR SAGASTUME
Contact Address:	976 HOPE ST
Contact Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.083165
Longitude:	-117.264383

NAICS:

EPA ID:	CAL000267915
Create Date:	2003-03-19 10:32:01.450
NAICS Code:	44112
NAICS Description:	Used Car Dealers
Issued EPA ID Date:	2003-03-19 10:32:01.43700
Inactive Date:	Not reported
Facility Name:	MYNOR AUTO SALES
Facility Address:	976 HOPE ST
Facility Address 2:	Not reported
Facility City:	SAN BERNARDINO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92408

D9 **ORANGE OIL COMPANY** **SWEEPS UST** **S101591068**
WSW **505 ORANGE SHOW RD** **CA FID UST** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92408**
0.206 mi.
1087 ft. **Site 1 of 4 in cluster D**

Relative:
Lower

Actual:
1024 ft.

SWEEPS UST:

Name:	ORANGE OIL COMPANY
Address:	505 ORANGE SHOW RD
City:	SAN BERNARDINO
Status:	Active
Comp Number:	18451
Number:	9
Board Of Equalization:	44-000074
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-018451-000001
Tank Status:	A
Capacity:	12000
Active Date:	06-29-88

ORANGE OIL COMPANY (Continued) **S101591068**

Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: ORANGE OIL COMPANY
Address: 505 ORANGE SHOW RD
City: SAN BERNARDINO
Status: Active
Comp Number: 18451
Number: 9
Board Of Equalization: 44-000074
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-018451-000002
Tank Status: A
Capacity: 12000
Active Date: 06-29-88
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Name: ORANGE OIL COMPANY
Address: 505 ORANGE SHOW RD
City: SAN BERNARDINO
Status: Active
Comp Number: 18451
Number: 9
Board Of Equalization: 44-000074
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-018451-000003
Tank Status: A
Capacity: 12000
Active Date: 06-29-88
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36001148
Regulated By: UTNKA
Regulated ID: 00018451
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 505 ORANGE SHOW RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN BERNARDINO 92408
Contact: Not reported

ORANGE OIL COMPANY (Continued) **S101591068**

Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D10 **TEXACO SERVICE STATION** **RCRA-SQG 1005441159**
WSW **505 ORANGE SHOW** **LUST CAR000116194**
1/8-1/4 **SAN BERNARDINO, CA 92408** **HIST UST**
0.206 mi. **CERS**
1087 ft. **Site 2 of 4 in cluster D**

Relative: **Lower**
Actual: **1024 ft.**

RCRA-SQG:

Date Form Received by Agency:		20020514
Handler Name:	TEXACO SERVICE STATION	
Handler Address:		505 ORANGE SHOW
Handler City,State,Zip:		SAN BERNARDINO, CA 92408
EPA ID:		CAR000116194
Contact Name:		SONDRA BIENVENU
Contact Address:		P O BOX 2648
Contact City,State,Zip:		HOUSTON, TX 77252-2648
Contact Telephone:		713-241-5036
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
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:		Not reported
State District:		Not reported
Mailing Address:		P O BOX 2648
Mailing City,State,Zip:		HOUSTON, TX 77252-2648
Owner Name:		EQUILON ENT LLC DBA S O P US
Owner Type:		Private
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 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
Active Site State-Reg Handler:		---

TEXACO SERVICE STATION (Continued) **1005441159**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20021007
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENT LLC DBA S O P US
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252-2648
Owner/Operator Telephone:	713-241-5036

TEXACO SERVICE STATION (Continued) **1005441159**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20020514
Handler Name: TEXACO SERVICE STATION
Federal Waste Generator Description: Small Quantity Generator
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: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LUST:
Name: SHELL SERVICE STATION
Address: 505 ORANGE SHOW ROAD
City,State,Zip: SAN BERNARDINO, CA 92408
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607195783
Global Id: T0607195783
Latitude: 34.0789406666666
Longitude: -117.294538
Status: Completed - Case Closed
Status Date: 01/29/2014
Case Worker: CAB
RB Case Number: 083604076T
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 2003004
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline, * * TERT-BUTYL ALCOHOL (TBA), * TERT-BUTYL ALCOHOL (TBA)
Site History: Not reported

LUST:
Global Id: T0607195783
Contact Type: Local Agency Caseworker
Contact Name: THERESA CONGDON
Organization Name: SAN BERNARDINO COUNTY

TEXACO SERVICE STATION (Continued) **1005441159**

Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: tcongdon@sbcfire.org
Phone Number: Not reported

Global Id: T0607195783
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

LUST:

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 05/06/2010
Action: Staff Letter

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 07/09/2013
Action: Staff Letter

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 05/02/2013
Action: Notification - Public Notice of Case Closure

Global Id: T0607195783
Action Type: Other
Date: 12/12/2002
Action: Leak Discovery

Global Id: T0607195783
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607195783
Action Type: RESPONSE
Date: 11/20/2013
Action: Verbal Communication

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 03/19/2009
Action: Referral to Regional Board

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 10/15/2012
Action: Verbal Enforcement

Global Id: T0607195783
Action Type: Other

TEXACO SERVICE STATION (Continued) **1005441159**

Date: 12/12/2002
Action: Leak Reported

Global Id: T0607195783
Action Type: REMEDIATION
Date: 04/15/2008
Action: Soil Vapor Extraction (SVE)

Global Id: T0607195783
Action Type: RESPONSE
Date: 09/30/2012
Action: Other Report / Document

Global Id: T0607195783
Action Type: RESPONSE
Date: 10/15/2012
Action: Verbal Communication

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 09/30/2011
Action: Staff Letter

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 01/02/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 01/29/2014
Action: Closure/No Further Action Letter

Global Id: T0607195783
Action Type: RESPONSE
Date: 02/28/2010
Action: Soil and Water Investigation Workplan

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 09/30/2011
Action: Staff Letter

Global Id: T0607195783
Action Type: RESPONSE
Date: 10/24/2011
Action: Other Report / Document

Global Id: T0607195783
Action Type: RESPONSE
Date: 12/30/2010
Action: Site Assessment Report

Global Id: T0607195783
Action Type: RESPONSE
Date: 10/30/2011
Action: Other Report / Document

TEXACO SERVICE STATION (Continued) **1005441159**

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 12/16/2009
Action: Meeting

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 01/29/2010
Action: Staff Letter

LUST:
Global Id: T0607195783
Status: Open - Case Begin Date
Status Date: 11/20/2002

Global Id: T0607195783
Status: Open - Site Assessment
Status Date: 11/20/2002

Global Id: T0607195783
Status: Open - Site Assessment
Status Date: 03/10/2003

Global Id: T0607195783
Status: Open - Assessment & Interim Remedial Action
Status Date: 04/15/2008

Global Id: T0607195783
Status: Open - Verification Monitoring
Status Date: 12/30/2010

Global Id: T0607195783
Status: Open - Eligible for Closure
Status Date: 05/28/2013

Global Id: T0607195783
Status: Completed - Case Closed
Status Date: 01/29/2014

Name: SHELL SERVICE STATION
Address: 505 ORANGE SHOW RD
City,State,Zip: SAN BERNARDINO, CA 92408
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100097
Global Id: T0607100097
Latitude: 34.07896
Longitude: -117.294698
Status: Completed - Case Closed
Status Date: 06/27/1988
Case Worker: Not reported
RB Case Number: 083600929T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 87054
Potential Media Affect: Soil

TEXACO SERVICE STATION (Continued) **1005441159**

Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:
Global Id: T0607100097
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

LUST:
Global Id: T0607100097
Action Type: Other
Date: 04/03/1986
Action: Leak Discovery

Global Id: T0607100097
Action Type: ENFORCEMENT
Date: 06/27/1988
Action: Closure/No Further Action Letter

Global Id: T0607100097
Action Type: Other
Date: 04/14/1986
Action: Leak Reported

LUST:
Global Id: T0607100097
Status: Open - Case Begin Date
Status Date: 04/03/1986

Global Id: T0607100097
Status: Completed - Case Closed
Status Date: 06/27/1988

HIST UST:
Name: ZAK AND FATIMA R * ; HAGG AG
Address: 505 ORANGE SHOW RD
City,State,Zip: SAN BERNARDINO, CA 92408
File Number: 0002A644
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A644.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

TEXACO SERVICE STATION (Continued) **1005441159**

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CERS:

Name:	SHELL SERVICE STATION
Address:	505 ORANGE SHOW ROAD
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	229951
CERS ID:	T0607195783
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - 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:	9517824495,

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	THERESA CONGDON - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Name:	SHELL SERVICE STATION
Address:	505 ORANGE SHOW RD
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	221893
CERS ID:	T0607100097
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - 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:	9517824495,

D11 **HOME LUMBER COMPANY INC** **HIST UST** **U001576055**
West **24345 PIONEER STREET** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92403**
0.229 mi.
1209 ft. **Site 3 of 4 in cluster D**

Relative: **Lower**
Actual: **1023 ft.**

HIST UST:

Name:	HOME LUMBER COMPANY INC
Address:	24345 PIONEER STREET
City,State,Zip:	SAN BERNARDINO, CA 92403
File Number:	00029FCC
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029FCC.pdf
Region:	STATE
Facility ID:	00000044864
Facility Type:	Other
Other Type:	LUMBER & PLYWOOD SAL
Contact Name:	MILTON E. JOHNSON
Telephone:	7143811771
Owner Name:	HOME LUMBER COMPANY, INC.
Owner Address:	24345 PIONEER STREET
Owner City,St,Zip:	SAN BERNARDINO, CA 92408
Total Tanks:	0002
Tank Num:	001
Container Num:	#3
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	#4
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test

Click here for Geo Tracker PDF:

D12 **HOME LUMBER COMPANY, INC.** **SWEEPS UST** **S101619513**
West **24345 PIONEER ST** **CA FID UST** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92408**
0.229 mi.
1209 ft. **Site 4 of 4 in cluster D**

Relative: **Lower**
Actual: **1023 ft.**

SWEEPS UST:

Name:	HOME LUMBER COMPANY, INC.
Address:	24345 PIONEER ST
City:	SAN BERNARDINO
Status:	Active
Comp Number:	44864
Number:	9
Board Of Equalization:	44-021062
Referral Date:	09-11-91
Action Date:	09-11-91
Created Date:	02-29-88

HOME LUMBER COMPANY, INC. (Continued) **S101619513**

Owner Tank Id: #3
SWRCB Tank Id: 36-000-044864-000001
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Name: HOME LUMBER COMPANY, INC.
Address: 24345 PIONEER ST
City: SAN BERNARDINO
Status: Active
Comp Number: 44864
Number: 9
Board Of Equalization: 44-021062
Referral Date: 09-11-91
Action Date: 09-11-91
Created Date: 02-29-88
Owner Tank Id: #4
SWRCB Tank Id: 36-000-044864-000002
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36009024
Regulated By: UTNKA
Regulated ID: 00044864
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN BERNARDINO 92408
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

13
SW
1/8-1/4
0.233 mi.
1230 ft.

RAUB WELL 4R
RIVERSIDE, CA

PFAS **S127520343**
N/A

Relative:
Lower

Actual:
1024 ft.

PFAS:

Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	HFPA-DA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/15/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported

RAUB WELL 4R (Continued) **S127520343**

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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	10
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	10
Units:	NG/L
Date:	4/26/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<

RAUB WELL 4R (Continued) **S127520343**

Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/2/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 4R
Address:	Not reported

RAUB WELL 4R (Continued) **S127520343**

City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	10
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/2/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

RAUB WELL 4R (Continued) **S127520343**

Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	5.6
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/2/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	11
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/20/2020

RAUB WELL 4R (Continued) **S127520343**

Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/20/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported

RAUB WELL 4R (Continued) **S127520343**

Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	10
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	8/9/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid

RAUB WELL 4R (Continued) **S127520343**

Chemical:	PFOA
Qualifier:	=
Value:	5.2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	8/9/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 4R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-177
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	2.3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/30/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076792
Longitude:	-117.271456
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

RAUB WELL 4R (Continued) **S127520343**

Click this hyperlink while viewing on your computer to access
134 additional CA PFAS: record(s) in the EDR Site Report.

E14 **GAGE WELL 98-1** **PFAS** **S127520341**
SE **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.295 mi.
1555 ft. **Site 1 of 2 in cluster E**

Relative: PFAS:
Higher

Actual: Name: GAGE WELL 98-1
1044 ft. Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-128
Matrix: Liquid
Chemical: PFNA
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/22/2021
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.076679
Longitude: -117.263338
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 98-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported

GAGE WELL 98-1 (Continued) **S127520341**

Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals

GAGE WELL 98-1 (Continued) **S127520341**

Location ID:	3310031-128
Matrix:	Liquid
Chemical:	NMEFOSAA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	PFNDCA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338

GAGE WELL 98-1 (Continued) **S127520341**

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	PFDOA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported

GAGE WELL 98-1 (Continued) **S127520341**

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: All PFAS Chemicals
Location ID: 3310031-128
Matrix: Liquid
Chemical: PFHA
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/22/2021
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.076679
Longitude: -117.263338
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 98-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-128
Matrix: Liquid
Chemical: PFTEDA
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported

GAGE WELL 98-1 (Continued) **S127520341**

Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	PFTRIDA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported

GAGE WELL 98-1 (Continued) **S127520341**

Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	PFUNDCA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 98-1 (Continued) **S127520341**

RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	HFPA-DA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076679
Longitude:	-117.263338
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 98-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-128
Matrix:	Liquid
Chemical:	9ClPF3ONS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well

GAGE WELL 98-1 (Continued) **S127520341**

Latitude: 34.076679
Longitude: -117.263338
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
148 additional CA PFAS: record(s) in the EDR Site Report.

E15 **TIPPECANOE WELL** **PFAS** **S127520344**
SE **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.305 mi.
1611 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
1044 ft.

PFAS:
Name: TIPPECANOE WELL
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-154
Matrix: Liquid
Chemical: PFOS
Qualifier: =
Value: 5.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/9/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.077029
Longitude: -117.262585
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: TIPPECANOE WELL
Address: Not reported
City,State,Zip: RIVERSIDE, CA

TIPPECANOE WELL (Continued) **S127520344**

Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	TIPPECANOE WELL
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

TIPPECANOE WELL (Continued) **S127520344**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	3.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	TIPPECANOE WELL
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	2.9
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells

TIPPECANOE WELL (Continued) **S127520344**

Site Type: DDW Well
Latitude: 34.077029
Longitude: -117.262585
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: TIPPECANOE WELL
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-154
Matrix: Liquid
Chemical: PFOS
Qualifier: =
Value: 2.8
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: 0.7
Units: NG/L
Date: 10/23/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.077029
Longitude: -117.262585
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: TIPPECANOE WELL
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
Facility Region: Not reported

TIPPECANOE WELL (Continued) **S127520344**

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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	2.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	0.7
Units:	NG/L
Date:	10/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	TIPPECANOE WELL
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=

TIPPECANOE WELL (Continued) **S127520344**

Value:	3.2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	1.5
Units:	NG/L
Date:	1/7/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	TIPPECANOE WELL
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	2.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	1.4
Units:	NG/L
Date:	1/7/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	TIPPECANOE WELL
Address:	Not reported

TIPPECANOE WELL (Continued) **S127520344**

City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	3.1
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	8/15/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	TIPPECANOE WELL
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

TIPPECANOE WELL (Continued) **S127520344**

Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	2.4
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	8/15/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	TIPPECANOE WELL
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-154
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	2.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/23/2019

TIPPECANOE WELL (Continued) **S127520344**

Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077029
Longitude:	-117.262585
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
184 additional CA PFAS: record(s) in the EDR Site Report.

16
SW
1/4-1/2
0.305 mi.
1611 ft.

RAUB WELL 07 **PFAS** **S127520340**
RIVERSIDE, CA **N/A**

Relative:
Lower

Actual:
1023 ft.

PFAS:

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/30/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

RAUB WELL 07 (Continued) **S127520340**

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	13
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	3.25
Units:	NG/L
Date:	10/21/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

RAUB WELL 07 (Continued) **S127520340**

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: All PFAS Chemicals
Location ID: 3310031-167
Matrix: Liquid
Chemical: PFOA
Qualifier: =
Value: 7.4
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: 1.85
Units: NG/L
Date: 10/21/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.076122
Longitude: -117.272563
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: RAUB WELL 07
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-167
Matrix: Liquid
Chemical: PFOS
Qualifier: =
Value: 13
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: 6.5

RAUB WELL 07 (Continued) **S127520340**

Units:	NG/L
Date:	1/15/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	7.3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	3.68
Units:	NG/L
Date:	1/15/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported

RAUB WELL 07 (Continued) **S127520340**

Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	12
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/17/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals

RAUB WELL 07 (Continued) **S127520340**

Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	5.3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/17/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	12
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	9.5
Units:	NG/L
Date:	4/2/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563

RAUB WELL 07 (Continued) **S127520340**

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	6.5
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	5.3
Units:	NG/L
Date:	4/2/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported

RAUB WELL 07 (Continued) **S127520340**

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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	8.9
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/3/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 07
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-167
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	4.5
Reporting Limit:	Not reported
Detection Limit:	Not reported

RAUB WELL 07 (Continued) **S127520340**

Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/3/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076122
Longitude:	-117.272563
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
130 additional CA PFAS: record(s) in the EDR Site Report.

17
SE
1/4-1/2
0.322 mi.
1698 ft.

GAGE WELL 51-1 **PFAS** **S127520339**
RIVERSIDE, CA **N/A**

Relative:
Higher

Actual:
1045 ft.

PFAS:

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well

GAGE WELL 51-1 (Continued) **S127520339**

Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFNA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported
Lead Agency:	Not reported

GAGE WELL 51-1 (Continued) **S127520339**

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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	NMEFOSAA
Qualifier:	<
Value:	2

GAGE WELL 51-1 (Continued) **S127520339**

Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFNDCA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA

GAGE WELL 51-1 (Continued) **S127520339**

Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFDOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 51-1 (Continued) **S127520339**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFHA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFTEDA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells

GAGE WELL 51-1 (Continued) **S127520339**

Site Type: DDW Well
Latitude: 34.075813
Longitude: -117.264025
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 51-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-036
Matrix: Liquid
Chemical: PFTRIDA
Qualifier: <
Value: 2
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/26/2019
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.075813
Longitude: -117.264025
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 51-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
Facility Region: Not reported

GAGE WELL 51-1 (Continued) **S127520339**

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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	PFUNDCA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 51-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-036
Matrix:	Liquid
Chemical:	9ClPF3ONS
Qualifier:	<

GAGE WELL 51-1 (Continued) **S127520339**

Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/15/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.075813
Longitude:	-117.264025
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
112 additional CA PFAS: record(s) in the EDR Site Report.

F18 **EAST VALLEY RECYCLING & TRANSFER** **PROC** **S112283553**
East **1150 S TIPPECANOE AVE** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.336 mi.
1776 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**
Actual: **1045 ft.**

PROC:

Name:	EAST VALLEY RECYCLING & TRANSFER
Address:	1150 S TIPPECANOE AVE
City,State,Zip:	SAN BERNARDINO, CA 92408
Reg Id:	160638
Cert Id:	PR160638.001
Organization Id:	Not reported
Organization Name:	Burrtec Waste Industries Inc
Mailing Address:	1830 Agua Mansa Rd
Mailing City:	Riverside
Mailing State:	CA
Mailing Zip Code:	92509
Website:	Not reported
Email:	debbie@burrtec.com
Phone Number:	(909) 429-4200
Rural:	N/A
Operation Begin Date:	10/16/2012
Aluminium:	Not reported
Glass:	Not reported
Plastic:	Not reported
Bimetal:	Not reported
Hours of Operation:	Mon - Fri Unknown; Sat - Sun Closed

---

19 **GAGE WELL 26-1** **PFAS** **S127520333**
SSE **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.367 mi.
1938 ft.

Relative: **Higher**
Actual: **1046 ft.**

PFAS:

Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA

GAGE WELL 26-1 (Continued) **S127520333**

Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	PFNDCA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 26-1 (Continued) **S127520333**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	PFDOA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	PFHA
Qualifier:	=
Value:	2.5
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells

GAGE WELL 26-1 (Continued) **S127520333**

Site Type: DDW Well
Latitude: 34.074963
Longitude: -117.264249
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 26-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-027
Matrix: Liquid
Chemical: PFTEDA
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/10/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.074963
Longitude: -117.264249
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 26-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
Facility Region: Not reported

GAGE WELL 26-1 (Continued) **S127520333**

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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	PFTRIDA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	PFUNDCA
Qualifier:	<

GAGE WELL 26-1 (Continued) **S127520333**

Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	HFPA-DA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 26-1
Address:	Not reported

GAGE WELL 26-1 (Continued) **S127520333**

City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	9ClPF3ONS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 26-1 (Continued) **S127520333**

Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	11ClPF3OUDS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	ADONA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/10/2020

GAGE WELL 26-1 (Continued) **S127520333**

Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 26-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-027
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	2.6
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/30/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.074963
Longitude:	-117.264249
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
112 additional CA PFAS: record(s) in the EDR Site Report.

F20
East
1/4-1/2
0.371 mi.
1958 ft.

EAST VALLEY RECYCLING & TRANSFER
1150 & 1250 SOUTH TIPPECANOE AVE.
SAN BERNARDINO, CA 92408

Site 2 of 2 in cluster F

SWF/LF **S111828195**
CERS **N/A**

Relative:
Higher

Actual:
1046 ft.

SWF/LF (SWIS):

Name:	EAST VALLEY RECYCLING & TRANSFER
Address:	1150 & 1250 SOUTH TIPPECANOE AVE.
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	STATE
Facility ID:	36-AA-0453
SWIS Number:	36-AA-0453
Point of Contact:	Megan Emslander
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Active
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	San Bernardino
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Permitted

Activity:

SWIS Number:	36-AA-0453
Site Name:	East Valley Recycling & Transfer
Activity:	Large Volume Transfer/Processing Facility
Activity Is Archived:	No
Category:	Transfer/Processing
Activity Classification:	Solid Waste Facility
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Monthly
Throughput:	1500
Throughput Units:	Tons per day
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	328500
Capacity Units:	Tons per year
Total Acreage:	6.1
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Megan Emslander
Site Operational Status:	Active
Site Regulatory Status:	Permitted
Site Is Archived:	No

EAST VALLEY RECYCLING & TRANSFER (Continued) **S111828195**

Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	San Bernardino
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	San Bernardino
Street Address:	1150 & 1250 South Tippecanoe Ave.
City:	San Bernardino
State:	CA
ZIP Code:	92408
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services

Operator:

SWIS Number:	36-AA-0453
Site Name:	East Valley Recycling & Transfer
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Permitted
Latitude:	34.07944
Longitude:	-117.26008
Is Archived:	No
Operator:	Burrtec Waste Industries, Inc.
Started On:	Not reported
Contact Name:	David Brischke
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(909) 429-4200
Street Address:	9400 Cherry Ave Ste C
Operator City:	Fontana
Operator State:	CA
Operator Zip:	92335

Owner:

SWIS Number:	36-AA-0453
Owner:	Burrtec Waste Industries, Inc.
Owner Address:	9400 Cherry Ave Ste C
Owner City:	Fontana
Owner State:	CA
Owner Zip:	92335
Site Name:	East Valley Recycling & Transfer
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Permitted
Latitude:	34.07944
Longitude:	-117.26008
Is Archived:	No
Started On:	Not reported
Contact Name:	David Brischke

EAST VALLEY RECYCLING & TRANSFER (Continued) **S111828195**

Contact Title: Not reported
Contact Email: Not reported
Contact Phone: (909) 429-4200

Waste:

SWIS Number: 36-AA-0453
Site Name: East Valley Recycling & Transfer
Activity: Large Volume Transfer/Processing Facility
Waste Type: Construction/demolition
Site Is Archived: No
Site Operational Status: Active
Site Regulatory Status: Permitted
Site Type: Non-Disposal Only
Point of Contact: Megan Emslander
Activity Is Archived: No
Activity Operational Status: Active
Activity Regulatory Status: Permitted
Activity Category: Transfer/Processing
Activity Classification: Solid Waste Facility

SWIS Number: 36-AA-0453
Site Name: East Valley Recycling & Transfer
Activity: Large Volume Transfer/Processing Facility
Waste Type: Food Wastes
Site Is Archived: No
Site Operational Status: Active
Site Regulatory Status: Permitted
Site Type: Non-Disposal Only
Point of Contact: Megan Emslander
Activity Is Archived: No
Activity Operational Status: Active
Activity Regulatory Status: Permitted
Activity Category: Transfer/Processing
Activity Classification: Solid Waste Facility

SWIS Number: 36-AA-0453
Site Name: East Valley Recycling & Transfer
Activity: Large Volume Transfer/Processing Facility
Waste Type: Mixed municipal
Site Is Archived: No
Site Operational Status: Active
Site Regulatory Status: Permitted
Site Type: Non-Disposal Only
Point of Contact: Megan Emslander
Activity Is Archived: No
Activity Operational Status: Active
Activity Regulatory Status: Permitted
Activity Category: Transfer/Processing
Activity Classification: Solid Waste Facility

SWIS Number: 36-AA-0453
Site Name: East Valley Recycling & Transfer
Activity: Large Volume Transfer/Processing Facility
Waste Type: Other designated
Site Is Archived: No
Site Operational Status: Active
Site Regulatory Status: Permitted

EAST VALLEY RECYCLING & TRANSFER (Continued) **S111828195**

Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Permitted
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Facility

CERS:

Name:	EAST VALLEY RECYCLING & TRANSFER
Address:	1150 & 1250 SOUTH TIPPECANOE AVE.
City,State,Zip:	SAN BERNARDINO, CA
Site ID:	508394
CERS ID:	36-AA-0453
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Operator
Entity Name:	Burrtec Waste Industries, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	9094294200,

Affiliation Type Desc:	Legal Owner
Entity Name:	Burrtec Waste Industries, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	9094294200,

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21 **GAGE WELL 29-2** **PFAS** **S127520348**
ESE **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.375 mi.
1982 ft.

Relative: Higher

Actual: 1050 ft.

PFAS:

Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported
Lead Agency:	Not reported

GAGE WELL 29-2 (Continued) **S127520348**

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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	5.9
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/24/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	=
Value:	1.9

GAGE WELL 29-2 (Continued) **S127520348**

Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/24/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	=
Value:	18
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/24/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA

GAGE WELL 29-2 (Continued) **S127520348**

Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFNA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/24/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 29-2 (Continued) **S127520348**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	3.1
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	5/23/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	5/23/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells

GAGE WELL 29-2 (Continued) **S127520348**

Site Type: DDW Well
Latitude: 34.077954
Longitude: -117.260395
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 29-2
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-031
Matrix: Liquid
Chemical: PFHXSA
Qualifier: =
Value: 8.5
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 5/23/2019
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.077954
Longitude: -117.260395
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 29-2
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
Facility Region: Not reported

GAGE WELL 29-2 (Continued) **S127520348**

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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	10
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	=

GAGE WELL 29-2 (Continued) **S127520348**

Value:	2.5
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-2
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	=
Value:	23
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-2
Address:	Not reported

GAGE WELL 29-2 (Continued) **S127520348**

City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-031
Matrix:	Liquid
Chemical:	PFNA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.077954
Longitude:	-117.260395
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
148 additional CA PFAS: record(s) in the EDR Site Report.

22
NNW
1/4-1/2
0.381 mi.
2010 ft.

NORTH SAN BERNARDINO AREA **RESPONSE** **S100184135**
BUNKER HILL GROUNDWATER BASIN **ENVIROSTOR** **N/A**
SAN BERNARDINO, CA 92401

Relative:
Lower

Actual:
1034 ft.

RESPONSE:

Name:	NORTH SAN BERNARDINO AREA
Address:	BUNKER HILL GROUNDWATER BASIN
City,State,Zip:	SAN BERNARDINO, CA 92401
Facility ID:	36990001
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	US EPA

NORTH SAN BERNARDINO AREA (Continued) **S100184135**

Lead Agency Description:	US EPA
Project Manager:	Not reported
Supervisor:	* Greg Holmes
Division Branch:	Cleanup Cypress
Site Code:	400106
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	40
Senate:	23
Special Program Status:	Not reported
Status:	Refer: Other Agency
Status Date:	09/25/1995
Restricted Use:	NO
Funding:	* Unknown
Latitude:	34.08666
Longitude:	-117.2716
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC :	* HALOGENATED SOLVENTS
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	BUNKER HILL GROUNDWATER BASIN
Alias Type:	Alternate Name
Alias Name:	MUSCOY AREA
Alias Type:	Alternate Name
Alias Name:	NEWMARK
Alias Type:	Alternate Name
Alias Name:	110033611937
Alias Type:	EPA (FRS #)
Alias Name:	P41053
Alias Type:	PCode
Alias Name:	400106
Alias Type:	Project Code (Site Code)
Alias Name:	36990001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Constructed: Operating Properly & Successfully
Completed Date:	08/17/1993
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/17/1993
Comments:	Removal Action (19th Street). An 8.6 million gallon per day capacity granular activitated carbon (GAC) wellhead treat- ment system was constructed on 19th Street in the City of San Bernardino. This GAC System will be operated by the City of San Bernardino Municipal Water Department. The system will function to help stop the migration of a TCE and PCE contaminated groundwater plume and to provide safe water to residents of the City of San Bernardino. The removal was initiated in June 1992 and completed on August 13, 1993 at a cost of approximately $1.9 million.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

NORTH SAN BERNARDINO AREA (Continued) **S100184135**

Completed Document Type: Removal Action Completion Report
Completed Date: 08/30/1990
Comments: Removal Action (17&S): 17th & Sierra gw pump/treat online. DTSC and the City of San Bernardino entered into an agree- ment on 10/31/1986, amended on 04/22/1988, to construct three treatment systems: Waterman, Newmark, and 17th & Sierra. The completion date for the removal action is 08/30/1990 when all three systems were online. The Newmark System is described in the Newmark Groundwater Contamination Site (ID# 36990002).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/30/1989
Comments: Removal Action (WATER): Waterman gw pump/treat online

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 06/26/1989
Comments: Site Inspection Done: Preliminary Assessment/Site Investi- gation prepared by DHS TSCP; ongoing IRM Implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 11/30/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/30/1986
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

ENVIROSTOR:
Name: NORTH SAN BERNARDINO AREA
Address: BUNKER HILL GROUNDWATER BASIN
City,State,Zip: SAN BERNARDINO, CA 92401
Facility ID: 36990001
Status: Refer: Other Agency
Status Date: 09/25/1995
Site Code: 400106
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO

NORTH SAN BERNARDINO AREA (Continued) **S100184135**

Regulatory Agencies: US EPA
Lead Agency: US EPA
Program Manager: Not reported
Supervisor: * Greg Holmes
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: * Unknown
Latitude: 34.08666
Longitude: -117.2716
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: BUNKER HILL GROUNDWATER BASIN
Alias Type: Alternate Name
Alias Name: MUSCOY AREA
Alias Type: Alternate Name
Alias Name: NEWMARK
Alias Type: Alternate Name
Alias Name: 110033611937
Alias Type: EPA (FRS #)
Alias Name: P41053
Alias Type: PCode
Alias Name: 400106
Alias Type: Project Code (Site Code)
Alias Name: 36990001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 08/17/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/17/1993
Comments: Removal Action (19th Street). An 8.6 million gallon per day capacity granular activitated carbon (GAC) wellhead treat- ment system was constructed on 19th Street in the City of San Bernardino. This GAC System will be operated by the City of San Bernardino Municipal Water Department. The system will function to help stop the migration of a TCE and PCE contaminated groundwater plume and to provide safe water to residents of the City of San Bernardino. The removal was initiated in June 1992 and completed on August 13, 1993 at a cost of approximately $1.9 million.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/30/1990

NORTH SAN BERNARDINO AREA (Continued) **S100184135**

Comments:	Removal Action (17&S): 17th & Sierra gw pump/treat online. DTSC and the City of San Bernardino entered into an agree- ment on 10/31/1986, amended on 04/22/1988, to construct three treatment systems: Waterman, Newmark, and 17th & Sierra. The completion date for the removal action is 08/30/1990 when all three systems were online. The Newmark System is described in the Newmark Groundwater Contamination Site (ID# 36990002).
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/30/1989
Comments:	Removal Action (WATER): Waterman gw pump/treat online
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Site Inspection (SI) Report
Completed Date:	06/26/1989
Comments:	Site Inspection Done: Preliminary Assessment/Site Investi- gation prepared by DHS TSCP; ongoing IRM Implementation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Participation Plan / Community Relations Plan
Completed Date:	11/30/1987
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	11/30/1986
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

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23 **RAUB WELL 5R** **PFAS** **S127520342**
WSW **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.391 mi.
2067 ft.

Relative: **Lower**

Actual: **1020 ft.**

PFAS:

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported

RAUB WELL 5R (Continued) **S127520342**

Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	7.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/17/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178

RAUB WELL 5R (Continued) **S127520342**

Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	4.5
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/17/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	13
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	3.25
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

RAUB WELL 5R (Continued) **S127520342**

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	7.3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	1.83
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

RAUB WELL 5R (Continued) **S127520342**

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: All PFAS Chemicals
Location ID: 3310031-178
Matrix: Liquid
Chemical: PFOS
Qualifier: =
Value: 5.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 8/16/2019
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.076778
Longitude: -117.275381
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: RAUB WELL 5R
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-178
Matrix: Liquid
Chemical: PFOA
Qualifier: =
Value: 2.9
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported

RAUB WELL 5R (Continued) **S127520342**

Units:	NG/L
Date:	8/16/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	10
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/24/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported

RAUB WELL 5R (Continued) **S127520342**

Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	5.1
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/24/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals

RAUB WELL 5R (Continued) **S127520342**

Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	8.6
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	5/22/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	=
Value:	5.3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	5/22/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381

RAUB WELL 5R (Continued) **S127520342**

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 5R
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-178
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	2.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	3.93
Units:	NG/L
Date:	1/29/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.076778
Longitude:	-117.275381

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
116 additional CA PFAS: record(s) in the EDR Site Report.

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24 **CSCO SCREW COMPANY** **ENVIROSTOR** **S106797656**
North **775 UNIT 6-7 S. GIFFORD STREET** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.400 mi.
2113 ft.

Relative:
Higher

Actual:
1042 ft.

ENVIROSTOR:

Name:	CSCO SCREW COMPANY
Address:	775 UNIT 6-7 S. GIFFORD STREET
City,State,Zip:	SAN BERNARDINO, CA 92408
Facility ID:	36340067
Status:	Refer: 1248 Local Agency

CSCO SCREW COMPANY (Continued) **S106797656**

Status Date:	06/28/2001
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	SAN BERNARDINO COUNTY
Lead Agency:	SAN BERNARDINO COUNTY
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	62
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	34.08707
Longitude:	-117.2684
APN:	0280091460000
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	0280091460000
Alias Type:	APN
Alias Name:	36340067
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:	06/26/2001
Comments:	SB 1248 San Bernardino County
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

G25 **RAUB WELL 06** **PFAS** **S127520350**
WSW **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.421 mi.
2223 ft. **Site 1 of 2 in cluster G**

Relative: PFAS:
Lower

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported

Actual:
1016 ft.

RAUB WELL 06 (Continued) **S127520350**

Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	4.1
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

RAUB WELL 06 (Continued) **S127520350**

RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	=
Value:	8.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well

RAUB WELL 06 (Continued) **S127520350**

Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	PFNA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported
Lead Agency:	Not reported

RAUB WELL 06 (Continued) **S127520350**

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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	NMEFOSAA
Qualifier:	<
Value:	1.7

RAUB WELL 06 (Continued) **S127520350**

Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	9ClPF3ONS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA

RAUB WELL 06 (Continued) **S127520350**

Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	11ClPF3OUDS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

RAUB WELL 06 (Continued) **S127520350**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	ADONA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	PFNDCA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells

RAUB WELL 06 (Continued) **S127520350**

Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 06
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-077
Matrix:	Liquid
Chemical:	PFDOA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	10/16/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.078548
Longitude:	-117.277194
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
166 additional CA PFAS: record(s) in the EDR Site Report.

G26 **RAUB WELL 08** **PFAS** **S127520352**
West **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.424 mi.
2240 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
1017 ft.

PFAS:

Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	PFTEDA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/3/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported

RAUB WELL 08 (Continued) **S127520352**

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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	PFTRIDA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/3/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	PFUNDCA
Qualifier:	<

RAUB WELL 08 (Continued) **S127520352**

Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/3/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	HFPA-DA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/3/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 08
Address:	Not reported

RAUB WELL 08 (Continued) **S127520352**

City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	9ClPF3ONS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/3/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

RAUB WELL 08 (Continued) **S127520352**

Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: 3310031-115
Matrix: Liquid
Chemical: 11ClPF3OUDS
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 6/3/2021
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.079161
Longitude: -117.277461
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: RAUB WELL 08
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-115
Matrix: Liquid
Chemical: ADONA
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 6/3/2021

RAUB WELL 08 (Continued) **S127520352**

Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	=
Value:	2.3
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	2.3
Units:	NG/L
Date:	7/16/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported

RAUB WELL 08 (Continued) **S127520352**

Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/16/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid

RAUB WELL 08 (Continued) **S127520352**

Chemical:	PFHXSA
Qualifier:	=
Value:	6.5
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/16/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	RAUB WELL 08
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-115
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/16/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079161
Longitude:	-117.277461
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

RAUB WELL 08 (Continued) **S127520352**

Click this hyperlink while viewing on your computer to access
202 additional CA PFAS: record(s) in the EDR Site Report.

H27 **S AND G ROOFING SUPPLY INC.** **LUST** **S102436129**
ESE **1444 TIPPECANOE AVE** **Cortese** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408** **HIST CORTESE**
0.446 mi. **CERS**
2356 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
1057 ft.

LUST:

Name:	S AND G ROOFING SUPPLY INC.
Address:	1444 TIPPECANOE AVE
City,State,Zip:	SAN BERNARDINO, CA 92408
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100204
Global Id:	T0607100204
Latitude:	34.0740361
Longitude:	-117.259953
Status:	Completed - Case Closed
Status Date:	03/06/1996
Case Worker:	Not reported
RB Case Number:	083601727T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	90141
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100204
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0607100204
Action Type:	Other
Date:	08/31/1990
Action:	Leak Discovery
Global Id:	T0607100204
Action Type:	Other
Date:	11/28/1990
Action:	Leak Reported
Global Id:	T0607100204
Action Type:	ENFORCEMENT
Date:	03/06/1996
Action:	Closure/No Further Action Letter
Global Id:	T0607100204
Action Type:	Other

S AND G ROOFING SUPPLY INC. (Continued) **S102436129**

Date: 08/31/1990
Action: Leak Stopped

LUST:
Global Id: T0607100204
Status: Open - Case Begin Date
Status Date: 08/31/1990

Global Id: T0607100204
Status: Open - Site Assessment
Status Date: 08/31/1990

Global Id: T0607100204
Status: Open - Site Assessment
Status Date: 11/28/1990

Global Id: T0607100204
Status: Completed - Case Closed
Status Date: 03/06/1996

LUST REG 8:

Name:	S AND G ROOFING SUPPLY INC.
Address:	1444 TIPPECANOE AVE
City:	SAN BERNARDINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083601727T
Local Case Num:	90141
Case Type:	Soil only
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	VICTORIA
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100204
How Stopped Date:	8/31/1990
Enter Date:	12/16/1990
Date Confirmation of Leak Began:	8/31/1990
Date Preliminary Assessment Began:	11/28/1990
Discover Date:	8/31/1990
Enforcement Date:	1/1/1965
Close Date:	3/6/1996
Date Prelim Assessment Workplan Submitted:	11/28/1990
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/16/1990

S AND G ROOFING SUPPLY INC. (Continued) **S102436129**

GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0740361
Longitude:	-117.259953
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	BM7
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary: DIESEL ALSO	

CORTESE:

Name:	S AND G ROOFING SUPPLY INC.
Address:	1444 TIPPECANOE AVE
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100204
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

HIST CORTESE:

edr_fname:	S AND G ROOFING SUPPLY IN
edr_fadd1:	1444 TIPPECANOE
City,State,Zip:	SAN BERNARDINO, CA 92408

S AND G ROOFING SUPPLY INC. (Continued) **S102436129**

Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083601727T

CERS:
Name: S AND G ROOFING SUPPLY INC.
Address: 1444 TIPPECANOE AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 226467
CERS ID: T0607100204
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - 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: 9517824903,

I28 **GAGE WELL 92-1** **PFAS** **S127520353**
East **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.455 mi.
2401 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
1052 ft.

PFAS:
Name: GAGE WELL 92-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-111
Matrix: Liquid
Chemical: HFPA-DA

GAGE WELL 92-1 (Continued) **S127520353**

Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/22/2021
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.07925
Longitude: -117.258547
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 92-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-111
Matrix: Liquid
Chemical: 9ClPF3ONS
Qualifier: <
Value: 1.7
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/22/2021
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.07925
Longitude: -117.258547
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 92-1

GAGE WELL 92-1 (Continued) **S127520353**

Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	11ClPF3OUDS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 92-1 (Continued) **S127520353**

Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	ADONA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/22/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L

GAGE WELL 92-1 (Continued) **S127520353**

Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported

GAGE WELL 92-1 (Continued) **S127520353**

Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111

GAGE WELL 92-1 (Continued) **S127520353**

Matrix:	Liquid
Chemical:	PFNA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

GAGE WELL 92-1 (Continued) **S127520353**

Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	NMEFOSAA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 92-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 92-1 (Continued) **S127520353**

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:	All PFAS Chemicals
Location ID:	3310031-111
Matrix:	Liquid
Chemical:	PFNDCA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/9/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.07925
Longitude:	-117.258547
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
166 additional CA PFAS: record(s) in the EDR Site Report.

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29 **GAGE WELL 27-1** **PFAS** **S127520329**
SSE **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.464 mi.
2451 ft.

Relative:
Higher

Actual:
1043 ft.

PFAS:

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals

GAGE WELL 27-1 (Continued) **S127520329**

Location ID:	3310031-028
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344

GAGE WELL 27-1 (Continued) **S127520329**

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344

Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported

GAGE WELL 27-1 (Continued) **S127520329**

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: All PFAS Chemicals
Location ID: 3310031-028
Matrix: Liquid
Chemical: PFNA
Qualifier: <
Value: 1.8
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 1/23/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.073178
Longitude: -117.265344
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 27-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-028
Matrix: Liquid
Chemical: NETFOSAA
Qualifier: <
Value: 1.8
Reporting Limit: Not reported
Detection Limit: Not reported

GAGE WELL 27-1 (Continued) **S127520329**

Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	NMEFOSAA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported

GAGE WELL 27-1 (Continued) **S127520329**

Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	PFNDCA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 27-1 (Continued) **S127520329**

RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	PFDOA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 27-1
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	PFHA
Qualifier:	=
Value:	2.4
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well

GAGE WELL 27-1 (Continued) **S127520329**

Latitude: 34.073178
Longitude: -117.265344
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 27-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-028
Matrix: Liquid
Chemical: 11ClPF3OUDS
Qualifier: <
Value: 1.8
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 1/23/2020
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.073178
Longitude: -117.265344
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 27-1
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
Facility Region: Not reported
Lead Agency: Not reported

GAGE WELL 27-1 (Continued) **S127520329**

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:	All PFAS Chemicals
Location ID:	3310031-028
Matrix:	Liquid
Chemical:	ADONA
Qualifier:	<
Value:	1.8
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	1/23/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.073178
Longitude:	-117.265344
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
148 additional CA PFAS: record(s) in the EDR Site Report.

I30 **GAGE WELL 29-3** **PFAS** **S127520356**
East **N/A**
1/4-1/2 **RIVERSIDE, CA**
0.467 mi.
2468 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
1053 ft.

PFAS:

Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 29-3 (Continued) **S127520356**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	9ClPF3ONS
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	ADONA
Qualifier:	<
Value:	1.7
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	7/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells

GAGE WELL 29-3 (Continued) **S127520356**

Site Type: DDW Well
Latitude: 34.079726
Longitude: -117.258272
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 29-3
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-032
Matrix: Liquid
Chemical: PFBSA
Qualifier: <
Value: 2
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/26/2019
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.079726
Longitude: -117.258272
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 29-3
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
Facility Region: Not reported

GAGE WELL 29-3 (Continued) **S127520356**

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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	PFHPA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031
Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	PFHXSA
Qualifier:	<

GAGE WELL 29-3 (Continued) **S127520356**

Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	PFNA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-3
Address:	Not reported

GAGE WELL 29-3 (Continued) **S127520356**

City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	NETFOSAA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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

GAGE WELL 29-3 (Continued) **S127520356**

Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Location ID: 3310031-032
Matrix: Liquid
Chemical: NMEFOSAA
Qualifier: <
Value: 2
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/26/2019
Field Pt Class: PUBW
Site Use: Drinking Water Wells
Site Type: DDW Well
Latitude: 34.079726
Longitude: -117.258272
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name: GAGE WELL 29-3
Address: Not reported
City,State,Zip: RIVERSIDE, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603310031
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: All PFAS Chemicals
Location ID: 3310031-032
Matrix: Liquid
Chemical: PFNDCA
Qualifier: <
Value: 2
Reporting Limit: Not reported
Detection Limit: Not reported
Lab Notes: Not reported
Quarterly Running Annual Average: Not reported
Units: NG/L
Date: 4/26/2019

GAGE WELL 29-3 (Continued) **S127520356**

Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	PFDOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Name:	GAGE WELL 29-3
Address:	Not reported
City,State,Zip:	RIVERSIDE, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported

GAGE WELL 29-3 (Continued) **S127520356**

Global ID:	W0603310031
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:	All PFAS Chemicals
Location ID:	3310031-032
Matrix:	Liquid
Chemical:	PFHA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	4/26/2019
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	34.079726
Longitude:	-117.258272
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603310031

Click this hyperlink while viewing on your computer to access
58 additional CA PFAS: record(s) in the EDR Site Report.

H31 **SUPPORT SERVICES BUILDING** **LUST** **S102769999**
ESE **1333 TIPPECANOE AVE** **Cortese** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92410** **HIST CORTESE**
0.472 mi. **CERS**
2492 ft. **Site 2 of 2 in cluster H**

Relative: LUST:
Higher

Actual:
1058 ft.

Name:	SUPPORT SERVICES BUILDING
Address:	1333 TIPPECANOE AVE
City,State,Zip:	SAN BERNARDINO, CA 92410
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100085
Global Id:	T0607100085
Latitude:	34.075928
Longitude:	-117.258209
Status:	Completed - Case Closed
Status Date:	08/04/1989
Case Worker:	CR2
RB Case Number:	083600802T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	87059

SUPPORT SERVICES BUILDING (Continued) **S102769999**

Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100085
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100085
Contact Type: Regional Board Caseworker
Contact Name: PATRICIA HANNON
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: patricia.hannon@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607100085
Action Type: Other
Date: 04/10/1987
Action: Leak Discovery

Global Id: T0607100085
Action Type: ENFORCEMENT
Date: 08/04/1989
Action: Closure/No Further Action Letter

Global Id: T0607100085
Action Type: Other
Date: 05/07/1987
Action: Leak Reported

Global Id: T0607100085
Action Type: Other
Date: 04/10/1987
Action: Leak Stopped

LUST:
Global Id: T0607100085
Status: Open - Case Begin Date
Status Date: 04/10/1987

Global Id: T0607100085
Status: Open - Site Assessment
Status Date: 03/29/1988

Global Id: T0607100085
Status: Completed - Case Closed
Status Date: 08/04/1989

SUPPORT SERVICES BUILDING (Continued) **S102769999**

LUST REG 8:

Name:	SUPPORT SERVICES BUILDING
Address:	1333 TIPPECANOE AVE
City:	SAN BERNARDINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083600802T
Local Case Num:	87059
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	SAN BERNARDINO
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Overfill
Leak Source:	Piping
Global ID:	T0607100085
How Stopped Date:	4/10/1987
Enter Date:	5/13/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/10/1987
Enforcement Date:	Not reported
Close Date:	8/4/1989
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	3/29/1988
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/13/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.076785
Longitude:	-117.259662
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	PAH
Staff Initials:	CR2
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported

SUPPORT SERVICES BUILDING (Continued) **S102769999**

Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

CORTESE:
Name: SUPPORT SERVICES BUILDING
Address: 1333 TIPPECANOE AVE
City,State,Zip: SAN BERNARDINO, CA 92410
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100085
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

HIST CORTESE:
edr_fname: SUPPORT SERVICES BUILDING
edr_fadd1: 1333 TIPPECANOE
City,State,Zip: SAN BERNARDINO, CA 92410
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083600802T

CERS:
Name: SUPPORT SERVICES BUILDING
Address: 1333 TIPPECANOE AVE
City,State,Zip: SAN BERNARDINO, CA 92410
Site ID: 250029
CERS ID: T0607100085
CERS Description: Leaking Underground Storage Tank Cleanup 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

SUPPORT SERVICES BUILDING (Continued) **S102769999**

Affiliation Phone: ,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9093868419,

J32 **FRANK'S FENCE** **LUST S103968654**
West **1145** **HIST CORTESE N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.477 mi.
2521 ft. **Site 1 of 4 in cluster J**

Relative: LUST REG 8:
Lower

Actual:
1016 ft.

Name: FRANK'S FENCE
Address: 1145 WATERMAN AVE
City: SAN BERNARDINO
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083601117T
Local Case Num: 90004
Case Type: Aquifer affected
Substance: Unleaded Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: ENNIS
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: Piping
Global ID: T0607100126
How Stopped Date: 11/29/1988
Enter Date: 1/4/1989
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 11/29/1988
Enforcement Date: Not reported
Close Date: 11/20/1998
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: 1/4/1989
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported
Enter Date: 1/4/1989
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported

FRANK'S FENCE (Continued) **S103968654**

Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0808717
Longitude:	-117.2786417
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	3
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	CB5
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	THREE GROUNDWATER MONITORING WELLS INSTALLED 4/22/91. GROUNDWATER CONTAMINATION FOUND.

HIST CORTESE:

edr_fname:	FRANK'S FENCE
edr_fadd1:	1145
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083601117T

J33 **FRANK'S FENCE** **LUST** **S109285213**
West **1145 S WATERMAN AVE** **Cortese** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408** **CERS**
0.477 mi.
2521 ft. **Site 2 of 4 in cluster J**

Relative: **Lower**

Actual: **1016 ft.**

LUST:

Name:	FRANK'S FENCE
Address:	1145 S WATERMAN AVE
City,State,Zip:	SAN BERNARDINO, CA 92408
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100126
Global Id:	T0607100126
Latitude:	34.0803993
Longitude:	-117.278594
Status:	Completed - Case Closed
Status Date:	11/20/1998
Case Worker:	CB
RB Case Number:	083601117T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	90004
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline

FRANK'S FENCE (Continued) **S109285213**

Site History: Not reported

LUST:
Global Id: T0607100126
Contact Type: Local Agency Caseworker
Contact Name: CURTIS BRUNDAGE
Organization Name: SAN BERNARDINO COUNTY
Address: 620 S. E STREET
City: SAN BERNARDINO
Email: cbrundage@sbcfire.org
Phone Number: Not reported

Global Id: T0607100126
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0607100126
Action Type: Other
Date: 11/29/1988
Action: Leak Discovery

Global Id: T0607100126
Action Type: ENFORCEMENT
Date: 12/12/1988
Action: Notice of Responsibility

Global Id: T0607100126
Action Type: ENFORCEMENT
Date: 04/26/1993
Action: Notice to Comply

Global Id: T0607100126
Action Type: ENFORCEMENT
Date: 10/05/1998
Action: LOP Case Closure Summary to RB

Global Id: T0607100126
Action Type: ENFORCEMENT
Date: 11/20/1998
Action: Closure/No Further Action Letter

Global Id: T0607100126
Action Type: Other
Date: 11/12/1988
Action: Leak Reported

Global Id: T0607100126
Action Type: REMEDIATION
Date: 03/18/1998
Action: Soil Vapor Extraction (SVE)

FRANK'S FENCE (Continued) **S109285213**

Global Id: T0607100126
Action Type: REMEDIATION
Date: 11/28/1988
Action: Excavation

Global Id: T0607100126
Action Type: Other
Date: 11/29/1988
Action: Leak Stopped

Global Id: T0607100126
Action Type: RESPONSE
Date: 08/04/1998
Action: Monitoring Report - Quarterly

Global Id: T0607100126
Action Type: RESPONSE
Date: 11/28/1988
Action: Unauthorized Release Form

LUST:
Global Id: T0607100126
Status: Open - Case Begin Date
Status Date: 11/12/1988

Global Id: T0607100126
Status: Open - Site Assessment
Status Date: 01/04/1989

Global Id: T0607100126
Status: Completed - Case Closed
Status Date: 11/20/1998

CORTESE:
Name: FRANK'S FENCE
Address: 1145 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100126
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

FRANK'S FENCE (Continued) **S109285213**

Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: FRANK'S FENCE
Address: 1145 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 230648
CERS ID: T0607100126
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - 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: 9517824903,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: CURTIS BRUNDAGE - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 S. E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

J34 **NTI FUELING STATION WATERMAN** **LUST** **S104568635**
West **1195 SOUTH WATERMAN AVENUE** **Cortese** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408** **HAZNET**
0.479 mi. **NPDES**
2531 ft. **Site 3 of 4 in cluster J** **San Bern. Co. Permit**
CERS

Relative:
Lower

Actual:
1016 ft.

LUST:
Name: VALLEY GAS / AUTO REPAIR
Address: 1195 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100624
Global Id: T0607100624
Latitude: 34.0798159
Longitude: -117.278586
Status: Completed - Case Closed
Status Date: 01/04/2001
Case Worker: JC
RB Case Number: 083603599T
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 99133

NTI FUELING STATION WATERMAN (Continued) **S104568635**

Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100624
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

Global Id: T0607100624
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

LUST:
Global Id: T0607100624
Action Type: Other
Date: 09/30/1999
Action: Leak Discovery

Global Id: T0607100624
Action Type: Other
Date: 11/01/1999
Action: Leak Reported

Global Id: T0607100624
Action Type: Other
Date: 09/30/1999
Action: Leak Stopped

LUST:
Global Id: T0607100624
Status: Open - Case Begin Date
Status Date: 09/30/1999

Global Id: T0607100624
Status: Open - Site Assessment
Status Date: 09/30/1999

Global Id: T0607100624
Status: Open - Remediation
Status Date: 08/14/2000

Global Id: T0607100624
Status: Open - Remediation
Status Date: 09/28/2000

Global Id: T0607100624

NTI FUELING STATION WATERMAN (Continued) **S104568635**

Status: Completed - Case Closed
Status Date: 01/04/2001

CORTESE:
Name: VALLEY GAS / AUTO REPAIR
Address: 1195 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100624
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

HAZNET:
Name: PANNIPA PORNPHONGPAN
Address: 1195 SOUTH WATERMAN AVE.
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 923541381
Contact: PAT P.
Telephone: 9512033775
Mailing Name: Not reported
Mailing Address: P.O. BOX 1381

Year: 2019
Gepaid: CAC003014458
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.15500

NPDES:
Name: NTI FUELING STATION OIL AND WATER WATERMAN
Address: 1195 SOUTH WATERMAN AVENUE
City,State,Zip: SAN BERNARDINO, CA 92408
Facility Status: Not reported
NPDES Number: Not reported

NTI FUELING STATION WATERMAN (Continued) **S104568635**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C385914
Regulatory Measure Type:	Construction
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:	Active
Status Date:	02/04/2019
Operator Name:	LK Management
Operator Address:	2139 1st Ave Ste 100
Operator City:	San Diego
Operator State:	California
Operator Zip:	92101

Name:	NTI FUELING STATION WATERMAN
Address:	1195 SOUTH WATERMAN AVENUE
City,State,Zip:	SAN BERNARDINO, CA 92408
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:	8 36C385037
Regulatory Measure Type:	Construction
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:	Active
Status Date:	10/26/2018
Operator Name:	Gas Station
Operator Address:	2139 1st Avenue
Operator City:	San Diego
Operator State:	California
Operator Zip:	92101

Name:	NTI FUELING STATION OIL AND WATER WATERMAN
Address:	1195 SOUTH WATERMAN AVENUE

NTI FUELING STATION WATERMAN (Continued) **S104568635**

City,State,Zip:	SAN BERNARDINO, CA 92408
Facility Status:	Active
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	505394
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C385914
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/04/2019
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2139 1st Ave Ste 100
Discharge Name:	LK Management
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92101
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	NTI FUELING STATION WATERMAN
Address:	1195 SOUTH WATERMAN AVENUE
City,State,Zip:	SAN BERNARDINO, CA 92408
Facility Status:	Active
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	502932
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C385037
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/26/2018
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2139 1st Avenue
Discharge Name:	Gas Station
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92101
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NTI FUELING STATION WATERMAN (Continued) **S104568635**

San Bern. Co. Permit:
Name: CHEN-LA AUTO REPAIR
Address: 1195 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0001875
Owner: JAMES KEO
Permit Number: PT0001108
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 01/31/2020

Name: CHEN-LA AUTO REPAIR
Address: 1195 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0001875
Owner: JAMES KEO
Permit Number: PT0001109
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 01/31/2016

CERS:
Name: VALLEY GAS / AUTO REPAIR
Address: 1195 S WATERMAN AVE
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 198796
CERS ID: T0607100624
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - 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: 9513206375,

J35 **VALLEY GAS / AUTO REPAIR** **LUST** **S103625053**
West **1195** **HIST CORTESE** **N/A**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.479 mi.
2531 ft. **Site 4 of 4 in cluster J**

Relative: **Lower**

Actual: **1016 ft.**

LUST REG 8:

Name:	VALLEY GAS / AUTO REPAIR
Address:	1195 WATERMAN AVE
City:	SAN BERNARDINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603599T
Local Case Num:	99133
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	E. ORANGE SHOW ROAD
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100624
How Stopped Date:	9/30/1999
Enter Date:	1/26/2000
Date Confirmation of Leak Began:	9/30/1999
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/30/1999
Enforcement Date:	Not reported
Close Date:	1/4/2001
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	8/14/2000
Date Remedial Action Underway:	9/28/2000
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/26/2000
GW Qualifies:	Not reported
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.079983
Longitude:	-117.278433
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	129
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	JC3
Lead Agency:	Local Agency

VALLEY GAS / AUTO REPAIR (Continued) **S103625053**

Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

HIST CORTESE:
edr_fname: VALLEY GAS / AUTO REPAIR
edr_fadd1: 1195
City,State,Zip: SAN BERNARDINO, CA 92408
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083603599T

36
ESE
1/2-1
0.743 mi.
3921 ft.

FOAMEX INTERNATIONAL INC **HWP** **S108214342**
1400 E VICTORIA AVE **N/A**
SAN BERNARDINO, CA 92408

Relative:
Higher

Actual:
1071 ft.

HWP:
EPA ID: CAT000646190
Name: FOAMEX INTERNATIONAL INC
Address: 1400 E VICTORIA AVE
Cleanup Status: PROTECTIVE FILER
Latitude: 34.07439
Longitude: -117.2561
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Supervisor: Not reported
Site Code: Not reported
Senate District: 23
Assembly District: 40
Public Information Officer: Not reported
Commercial Offsite Facility Types: Not reported
Quarterly Update: Not reported
Project Manager Lead: Not reported
Project Manager: Not reported
Permit Type: Not reported
Permit Effective Date: Not reported
Permit Expiration Date: Not reported
Calenviroscreen Score: 96-100% (highest scores)
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: Not reported

Activities:
EPA ID: CAT000646190
Facility Type: Historical - Non-Operating
Facility Name: FOAMEX INTERNATIONAL INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: PROTECTIVE FILER
Activity Type: Protective Filer Status

FOAMEX INTERNATIONAL INC (Continued) **S108214342**

Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	Not reported
Type:	Not reported
Title Description:	Protective Filer
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1
Event Description:	Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date:	08/04/1981

K37 **NORTON AIR FORCE BASE** **FUDS** **1024903601**
NE **N/A**
1/2-1 **SAN BERNARDINO, CA**
0.850 mi.
4486 ft. **Site 1 of 3 in cluster K**

Relative: **Higher**
Actual: **1063 ft.**

FUDS:

EPA Region:	9
Installation ID:	CA99799F553500
Congressional District Number:	31
Name:	NORTON AIR FORCE BASE
FUDS Number:	J09CA0514
City:	SAN BERNARDINO
State:	CA
County:	SAN BERNARDINO
Object ID:	699
USACE Division:	SPD
USACE District:	Los Angeles District (SPL)
Status:	Properties without projects
Current Owner:	Not reported
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=61130
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not on the NPL
Property History:	The Army Air Corps acquired over 2500 acres for use as an Air Corps Supply Depot. The Air Force established Norton Air Force Base on the property in 1950. The 152.12 acres disposed between 1946 and 1970 were acquired in the 1940s by license, easement, leasehold, fee, and permit. These parcels were used for water and sewer pipeline rights-of-way, navigation line-up lights, portable airway flight aid lights, living quarters and storage space. There were three properties disposed between 1971 and 1986. In March 1945, 69.69 acres located south of the Base and in the path of one of the runways, was encumbered with an avigation easement to eliminate height obstructions. The owner continued to use the property for agricultural purposes. A 4.52 acre easement was acquired in 1945 for flood control purposes and was quitclaimed in 1981. A total of 19.41 acres were acquired in fee in 1950 and 1951 in order to eliminate height obstructions along the approach to one of the runways. There is no evidence to suggest that the properties were used for any other purpose. The properties were disposed in 1985 and 1986 since the runway requiring elimination of height obstructions was closed. Norton AFB was closed 31 March 1994 as a result of BRAC I. The Base is a Superfund Site and is currently undergoing remediation as part of the closure and disposal. The 89.1 acres described in the previous paragraph are not effected by the groundwater contamination plume

NORTON AIR FORCE BASE (Continued) **1024903601**

originating from the center of the Base.

Project Required: No
Feature Description: Not reported
Latitude: 34.09166667
Longitude: -117.25833333

K38 **SAN BERNARDINO AAF** **ENVIROSTOR** **S107737217**
NE **N/A**
1/2-1 **SAN BERNARDINO, CA**
0.850 mi.
4489 ft. **Site 2 of 3 in cluster K**

Relative:
Higher

Actual:
1063 ft.

ENVIROSTOR:
Name: SAN BERNARDINO AAF
Address: Not reported
City,State,Zip: SAN BERNARDINO, CA
Facility ID: 80000729
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.09166
Longitude: -117.2583
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: Explosives (UXO, MEC
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F805900
Alias Type: Federal Facility ID
Alias Name: J09CA7005
Alias Type: INPR
Alias Name: 80000729
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: 09/29/1994
Comments: Not reported

Future Area Name: Not reported

SAN BERNARDINO AAF (Continued) **S107737217**

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

K39 **NORTON AFB - FUDS** **ENVIROSTOR** **S109348603**
NE **N/A**
1/2-1 **SAN BERNARDINO, CA**
0.850 mi.
4489 ft. **Site 3 of 3 in cluster K**

Relative:
Higher

Actual:
1063 ft.

ENVIROSTOR:
Name: NORTON AFB - FUDS
Address: Not reported
City,State,Zip: SAN BERNARDINO, CA
Facility ID: 80000333
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.09166
Longitude: -117.2583
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F553500
Alias Type: Federal Facility ID
Alias Name: J09CA0514
Alias Type: INPR
Alias Name: 80000333
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: 09/21/1999
Comments: Not reported

NORTON AFB - FUDS (Continued) **S109348603**

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

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40 **EOD FACILITY** **UXO** **1024718728**
North **N/A**
1/2-1 **SAN BERNARDINO, CA**
0.955 mi.
5041 ft.

Relative: **Higher**

Actual: **1040 ft.**

UXO:

DoD Component:	Air Force
Installation Name:	NORTON
Name:	EOD FACILITY
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA
Site ID:	XU403
Site Type:	Unexploded Munitions and Ordnance Area
Latitude:	34.095109
Longitude:	-117.269215

---

41 **BENEDICT PROPERTIES** **ENVIROSTOR** **S106797651**
WNW **101 BENEDICT ROAD** **N/A**
1/2-1 **SAN BERNARDINO, CA 92408**
0.987 mi.
5211 ft.

Relative: **Lower**

Actual: **998 ft.**

ENVIROSTOR:

Name:	BENEDICT PROPERTIES
Address:	101 BENEDICT ROAD
City,State,Zip:	SAN BERNARDINO, CA 92408
Facility ID:	36000013
Status:	Refer: 1248 Local Agency
Status Date:	10/25/2001
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	SAN BERNARDINO COUNTY
Lead Agency:	SAN BERNARDINO COUNTY
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	47
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

BENEDICT PROPERTIES (Continued) **S106797651**

Funding: Not Applicable
Latitude: 34.08377
Longitude: -117.2871
APN: 014128204, 14128204
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 014128204
Alias Type: APN
Alias Name: 14128204
Alias Type: APN
Alias Name: 36000013
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

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
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: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
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: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
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: 11/08/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 80

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

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 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 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 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 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 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: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

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

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 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

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 12/01/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 03/02/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

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

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: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
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: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
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: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
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: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 12

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
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: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

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

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: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
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: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 07/18/2022
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: 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.

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

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: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

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: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

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

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: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

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: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 12/31/2021
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
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: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
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: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
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: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

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: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
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: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
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: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/18/2022
Next Scheduled EDR Contact: 05/30/2022
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: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2022
Next Scheduled EDR Contact: 08/01/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 06/13/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 05/16/2022
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: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
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: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
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: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
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: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
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: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
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: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
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: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 07/11/2022
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: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
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: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

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: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/22/2022
Next Scheduled EDR Contact: 06/06/2022
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: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

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

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: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
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: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
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: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

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: 11/17/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
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: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
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: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Financial 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: 11/18/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 80

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
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: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
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: 01/03/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 11/18/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/27/2022
Number of Days to Update: 79
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
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: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 12/13/2021
Date Data Arrived at EDR: 12/14/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 79
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/09/2022
Next Scheduled EDR Contact: 06/26/2022
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/03/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

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: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

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: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 79

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 12/01/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 03/24/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 83

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
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: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/23/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/13/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
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: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/24/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/11/2022
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: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
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: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/01/2022
Date Made Active in Reports: 04/18/2022
Number of Days to Update: 76

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 05/16/2022
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: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
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: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
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: 08/02/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 11/02/2021
Number of Days to Update: 90

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 77

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
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: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
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: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
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: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 79

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
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: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
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: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 77
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
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: 02/24/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
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: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
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: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 05/16/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
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: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
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: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 81

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 11/29/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
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: 12/27/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2022
Date Data Arrived at EDR: 01/27/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 77
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
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: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
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: 04/07/2022
Next Scheduled EDR Contact: 07/18/2022
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: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
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: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
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: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
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 and 2010 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

GATEWAY SOUTH BUILDING 9 ASSEMBLAGE
707 EAST NORMAN ROAD
SAN BERNARDINO, CA 92408

TARGET PROPERTY COORDINATES

Latitude (North):	34.080581 - 34ˆ 4’ 50.09’’
Longitude (West):	117.267997 - 117ˆ 16’ 4.79’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	475273.9
UTM Y (Meters):	3770928.5
Elevation:	1037 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12016021 SAN BERNARDINO SOUTH, CA
Version Date:	2018
East Map:	12014994 REDLANDS, CA
Version Date:	2018

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).

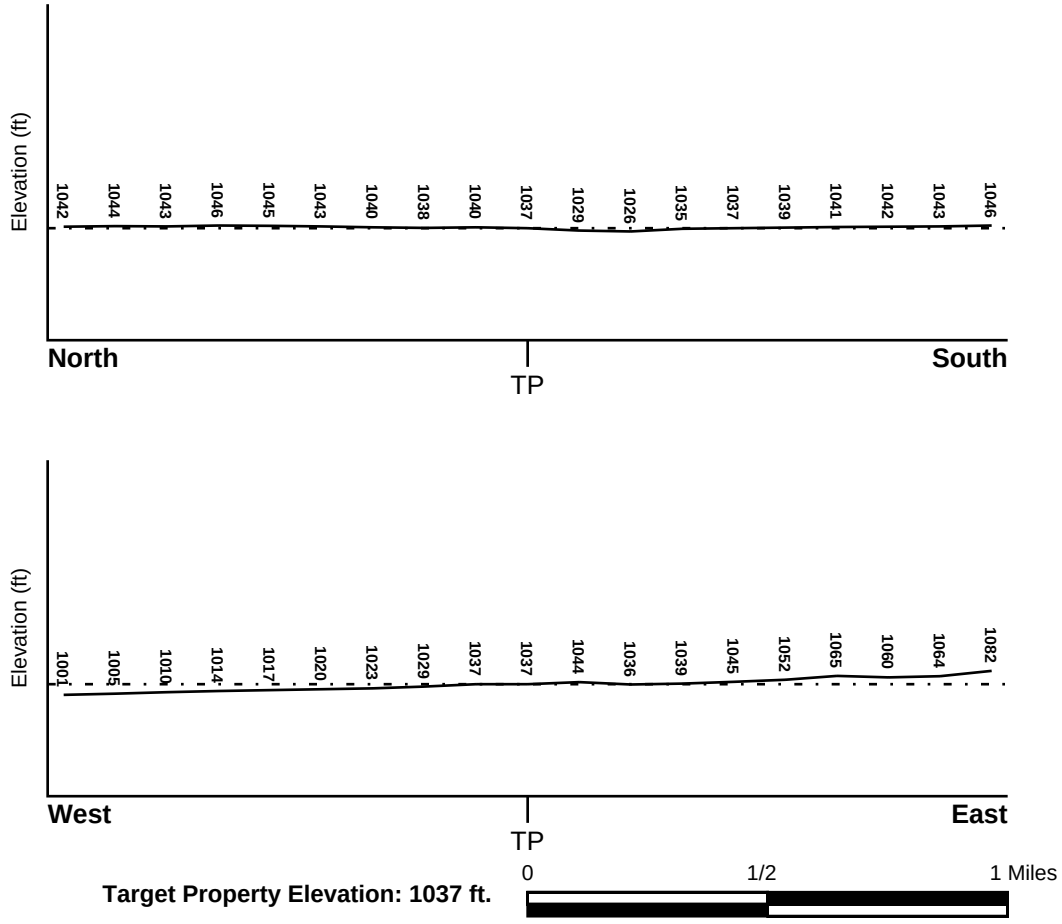
TOPOGRAPHIC INFORMATION

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 SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1037 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
06071C8684H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8682H	FEMA FIRM Flood data
06071C8683H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	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
Status:	Not found

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
133	1/2 - 1 Mile West	WSW
AN206	1/2 - 1 Mile North	SSE
1G	1/2 - 1 Mile North	SSE
2G	1/2 - 1 Mile West	WSW

For additional site information, refer to Physical Setting Source Map Findings.

* ©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

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

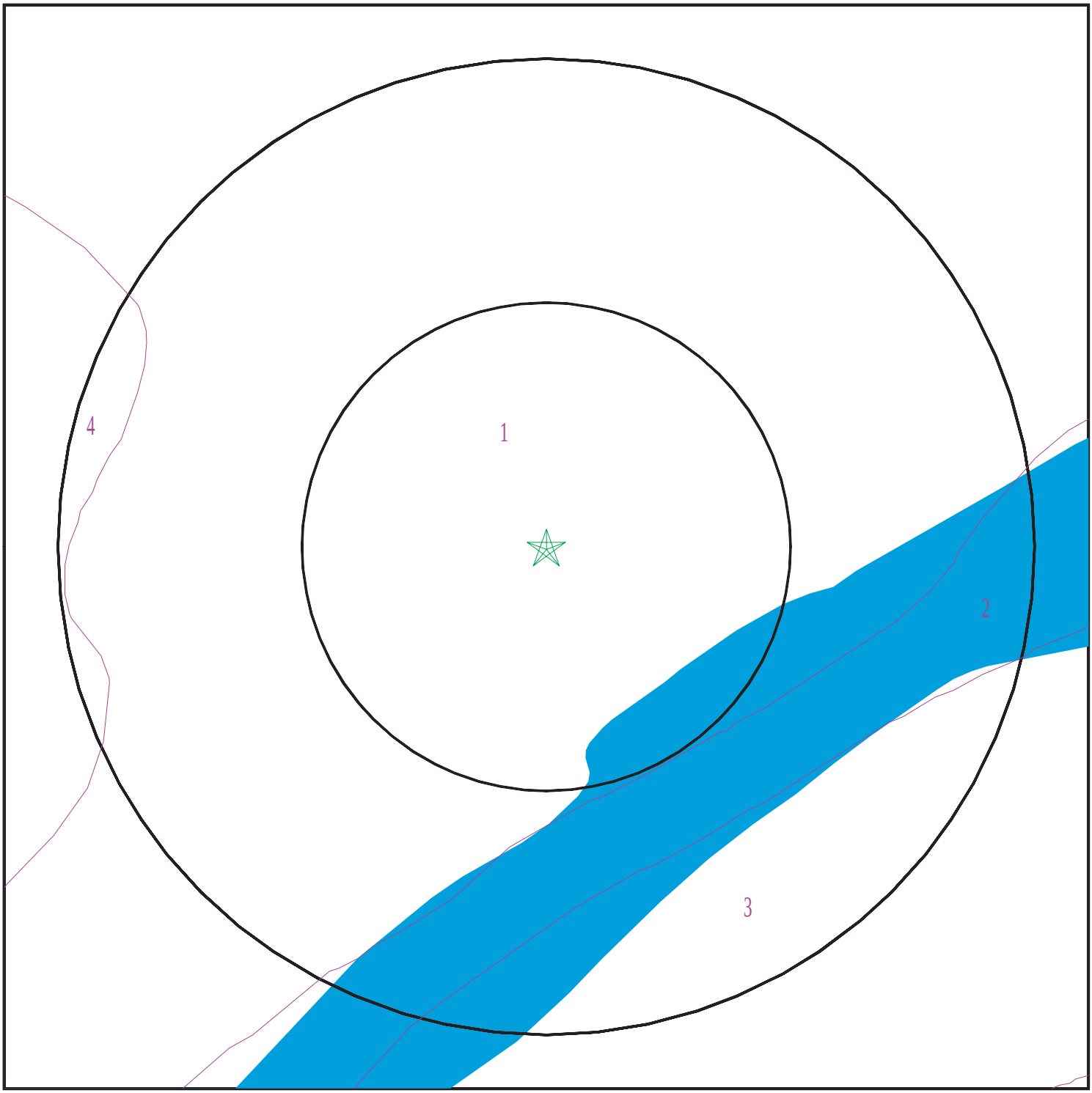
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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 - 6958905.2s



SITE NAME:	Gateway South Building 9 Assemblage	CLIENT:	GeoSyntec Consultants
ADDRESS:	707 East Norman Road San Bernardino CA 92408	CONTACT:	Jackie Hyman
		INQUIRY #:	6958905.2s
LAT/LONG:	34.080581 / 117.267997	DATE:	April 28, 2022 8:55 am

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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: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: FLUVENTS

Soil Surface Texture: gravelly sand

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 excessively drained

Hydric Status: Partially 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	9 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	9 inches	29 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	29 inches	59 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 3

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 4

Soil Component Name: Hanford

Soil Surface Texture: sandy 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: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	11 inches	59 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6

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.

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
4	USGS40000140741	1/8 - 1/4 Mile WNW
A7	USGS40000140737	1/8 - 1/4 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C11	USGS40000140707	1/4 - 1/2 Mile WSW
C13	USGS40000140694	1/4 - 1/2 Mile SW
C15	USGS40000140703	1/4 - 1/2 Mile WSW
C16	USGS40000140702	1/4 - 1/2 Mile WSW
23	USGS40000140800	1/4 - 1/2 Mile North
F24	USGS40000140751	1/4 - 1/2 Mile ENE
G26	USGS40000140798	1/4 - 1/2 Mile NNW
D29	USGS40000140638	1/4 - 1/2 Mile SSE
I40	USGS40000140790	1/4 - 1/2 Mile NW
K43	USGS40000140667	1/4 - 1/2 Mile WSW
J52	USGS40000140649	1/4 - 1/2 Mile SW
I54	USGS40000140791	1/4 - 1/2 Mile NW
L55	USGS40000140704	1/4 - 1/2 Mile WSW
O58	USGS40000140617	1/4 - 1/2 Mile SSE
N59	USGS40000140695	1/4 - 1/2 Mile ESE
M67	USGS40000140606	1/4 - 1/2 Mile SSE
Q69	USGS40000140639	1/4 - 1/2 Mile SW
R72	USGS40000140797	1/4 - 1/2 Mile NE
S74	USGS40000140833	1/2 - 1 Mile NNW
Q81	USGS40000140650	1/2 - 1 Mile SW
U87	USGS40000140579	1/2 - 1 Mile SSE
V89	USGS40000140821	1/2 - 1 Mile NW
W91	USGS40000140723	1/2 - 1 Mile East
W107	USGS40000140720	1/2 - 1 Mile East
108	USGS40000140605	1/2 - 1 Mile SE
Y111	USGS40000140796	1/2 - 1 Mile NE
T115	USGS40000140802	1/2 - 1 Mile NW
T116	USGS40000140801	1/2 - 1 Mile NW
T117	USGS40000140805	1/2 - 1 Mile NW
T118	USGS40000140806	1/2 - 1 Mile NW
T119	USGS40000140803	1/2 - 1 Mile NW
T120	USGS40000140804	1/2 - 1 Mile NW
AA135	USGS40000140554	1/2 - 1 Mile South
136	USGS40000140854	1/2 - 1 Mile North
138	USGS40000140626	1/2 - 1 Mile SW
AC144	USGS40000140832	1/2 - 1 Mile NE
AA146	USGS40000140544	1/2 - 1 Mile South
147	USGS40000140640	1/2 - 1 Mile WSW
AD148	USGS40000140736	1/2 - 1 Mile East
AD150	USGS40000140740	1/2 - 1 Mile East
153	USGS40000140584	1/2 - 1 Mile SW
AH159	USGS40000140782	1/2 - 1 Mile ENE
AH168	USGS40000140789	1/2 - 1 Mile ENE
AE170	USGS40000140659	1/2 - 1 Mile WSW
173	USGS40000140871	1/2 - 1 Mile NNW
AI177	USGS40000140514	1/2 - 1 Mile South
AH187	USGS40000140788	1/2 - 1 Mile ENE
AF188	USGS40000140820	1/2 - 1 Mile ENE
190	USGS40000140569	1/2 - 1 Mile SW
191	USGS40000140828	1/2 - 1 Mile NE
AJ194	USGS40000140607	1/2 - 1 Mile SW
AM201	USGS40000140594	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AL202	USGS40000140815	1/2 - 1 Mile ENE
AP211	USGS40000140641	1/2 - 1 Mile WSW
212	USGS40000140727	1/2 - 1 Mile East
AJ214	USGS40000140595	1/2 - 1 Mile SW
218	USGS40000140604	1/2 - 1 Mile ESE
220	USGS40000140917	1/2 - 1 Mile North
AR228	USGS40000140562	1/2 - 1 Mile SW
AR229	USGS40000140563	1/2 - 1 Mile SW
AT231	USGS40000140676	1/2 - 1 Mile WSW
AS234	USGS40000140461	1/2 - 1 Mile South
AU235	USGS40000140881	1/2 - 1 Mile NE
236	USGS40000140637	1/2 - 1 Mile ESE
238	USGS40000140746	1/2 - 1 Mile West
AW241	USGS40000140693	1/2 - 1 Mile ESE
245	USGS40000140783	1/2 - 1 Mile WNW
AY246	USGS40000140618	1/2 - 1 Mile WSW
248	USGS40000140726	1/2 - 1 Mile East
AZ252	USGS40000140921	1/2 - 1 Mile NNE
AY256	USGS40000140619	1/2 - 1 Mile WSW
AU258	USGS40000140895	1/2 - 1 Mile NNE
AU259	USGS40000140890	1/2 - 1 Mile NE
BC263	USGS40000140449	1/2 - 1 Mile South
BA267	USGS40000140635	1/2 - 1 Mile WSW
BD269	USGS40000140677	1/2 - 1 Mile WSW
270	USGS40000140866	1/2 - 1 Mile NE
271	USGS40000140907	1/2 - 1 Mile NNE
BB281	USGS40000140799	1/2 - 1 Mile ENE
286	USGS40000140896	1/2 - 1 Mile NW
BF293	USGS40000140795	1/2 - 1 Mile ENE
BD294	USGS40000140660	1/2 - 1 Mile WSW
BG295	USGS40000140611	1/2 - 1 Mile ESE
BG296	USGS40000140612	1/2 - 1 Mile ESE

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
A1	CADWR9000006678	1/8 - 1/4 Mile ENE
B2	906	1/8 - 1/4 Mile North
B3	907	1/8 - 1/4 Mile North
B5	CADDW0000019295	1/8 - 1/4 Mile NNE
A6	CADWR0000028966	1/8 - 1/4 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A8	CAUSGSN00005082	1/8 - 1/4 Mile ENE
9	CADPR0000001175	1/4 - 1/2 Mile SSW
C10	CADWR0000002979	1/4 - 1/2 Mile SW
C12	911	1/4 - 1/2 Mile SW
C14	CAUSGSN00002692	1/4 - 1/2 Mile WSW
C17	CADDW0000018822	1/4 - 1/2 Mile SW
C18	CADWR9000006671	1/4 - 1/2 Mile WSW
C19	CADWR9000006669	1/4 - 1/2 Mile WSW
D20	931	1/4 - 1/2 Mile SE
E21	CAPFAS000001329	1/4 - 1/2 Mile SW
E22	CADDW0000006893	1/4 - 1/2 Mile SW
F25	CAUSGSN00008476	1/4 - 1/2 Mile ENE
H27	CADDW0000008870	1/4 - 1/2 Mile SE
H28	CAPFAS000000234	1/4 - 1/2 Mile SE
D30	CAUSGSN00005877	1/4 - 1/2 Mile SSE
H31	CAPFAS000001279	1/4 - 1/2 Mile SE
H32	CADDW0000009733	1/4 - 1/2 Mile SE
D33	CAPFAS000000071	1/4 - 1/2 Mile SE
D34	CADWR0000020818	1/4 - 1/2 Mile SE
D35	CADDW0000020231	1/4 - 1/2 Mile SE
E36	CAPFAS000000954	1/4 - 1/2 Mile SW
E37	CADDW0000018162	1/4 - 1/2 Mile SW
38	CADWR0000031565	1/4 - 1/2 Mile SSW
I39	CAUSGSN00002270	1/4 - 1/2 Mile NW
J41	CADDW0000015046	1/4 - 1/2 Mile SW
K42	CADDW0000018833	1/4 - 1/2 Mile SW
G44	CADWR0000021826	1/4 - 1/2 Mile NNW
G45	CADWR0000028971	1/4 - 1/2 Mile NNW
L46	CADWR0000017480	1/4 - 1/2 Mile WSW
L47	CADWR0000002873	1/4 - 1/2 Mile WSW
I48	CADWR0000029361	1/4 - 1/2 Mile NW
K49	CAUSGSN00009296	1/4 - 1/2 Mile WSW
M50	930	1/4 - 1/2 Mile SSE
J51	CAUSGSN00002847	1/4 - 1/2 Mile SW
N53	CADWR0000008631	1/4 - 1/2 Mile ESE
O56	CADDW0000012992	1/4 - 1/2 Mile SSE
O57	CAPFAS000000127	1/4 - 1/2 Mile SSE
I60	CADWR9000006700	1/4 - 1/2 Mile NW
P61	CADPR0000003057	1/4 - 1/2 Mile South
N62	CAUSGSN00008035	1/4 - 1/2 Mile ESE
O63	CADWR0000021749	1/4 - 1/2 Mile SE
O64	CADWR0000012253	1/4 - 1/2 Mile SE
N65	CADDW0000008501	1/4 - 1/2 Mile ESE
N66	CAPFAS000001552	1/4 - 1/2 Mile ESE
M68	CAUSGSN00015583	1/4 - 1/2 Mile SSE
Q70	CAPFAS000000480	1/4 - 1/2 Mile WSW
Q71	CADDW0000016328	1/4 - 1/2 Mile WSW
S73	CAUSGSN00012784	1/4 - 1/2 Mile NNW
N75	937	1/2 - 1 Mile ESE
T76	CADWR9000006701	1/2 - 1 Mile NW
U77	935	1/2 - 1 Mile SSE
S78	CADWR0000013505	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
79	932	1/2 - 1 Mile SW
R80	CADWR9000006702	1/2 - 1 Mile NE
Q82	CAUSGSN00018556	1/2 - 1 Mile SW
Q83	933	1/2 - 1 Mile WSW
84	910	1/2 - 1 Mile WSW
85	CADDW0000015965	1/2 - 1 Mile South
86	CADWR9000006718	1/2 - 1 Mile NNW
U88	CAUSGSN00000208	1/2 - 1 Mile SSE
P90	924	1/2 - 1 Mile South
U92	CADDW0000010686	1/2 - 1 Mile SSE
U93	CAPFAS000000687	1/2 - 1 Mile SSE
W94	CAUSGSN00016647	1/2 - 1 Mile East
X95	CADDW0000007822	1/2 - 1 Mile WSW
X96	CAPFAS000000627	1/2 - 1 Mile WSW
Q97	CADWR0000037884	1/2 - 1 Mile SW
Q98	CADWR0000031933	1/2 - 1 Mile SW
X99	CADDW0000008767	1/2 - 1 Mile WSW
X100	CADDW0000009474	1/2 - 1 Mile West
X101	CAPFAS000000849	1/2 - 1 Mile West
W102	CADDW0000011501	1/2 - 1 Mile East
W103	CAPFAS000000019	1/2 - 1 Mile East
T104	CADWR0000009005	1/2 - 1 Mile NW
W105	902	1/2 - 1 Mile East
X106	908	1/2 - 1 Mile WSW
Y109	CAUSGSN00004483	1/2 - 1 Mile NE
W110	CAUSGSN00008036	1/2 - 1 Mile East
Y112	CADWR0000024908	1/2 - 1 Mile NE
W113	CADDW0000021590	1/2 - 1 Mile East
W114	CAPFAS000000033	1/2 - 1 Mile East
V121	CADWR9000006715	1/2 - 1 Mile NW
T122	CADWR9000006706	1/2 - 1 Mile NW
T123	CADWR9000006705	1/2 - 1 Mile NW
T124	CADWR9000006704	1/2 - 1 Mile NW
T125	CADWR9000006709	1/2 - 1 Mile NW
T126	CADWR9000006708	1/2 - 1 Mile NW
T127	CADWR9000006707	1/2 - 1 Mile NW
Z128	CADWR0000001434	1/2 - 1 Mile ESE
Z129	CADWR0000031395	1/2 - 1 Mile ESE
Z130	CADWR0000027775	1/2 - 1 Mile ESE
Z131	CADWR0000028529	1/2 - 1 Mile ESE
AA132	CADWR0000037718	1/2 - 1 Mile South
AA134	CADWR0000001813	1/2 - 1 Mile South
AA137	CAUSGSN00015734	1/2 - 1 Mile South
AB139	CADWR0000008171	1/2 - 1 Mile North
AB140	CADWR0000005718	1/2 - 1 Mile North
AA141	CADDW0000009805	1/2 - 1 Mile South
AA142	CAPFAS000001365	1/2 - 1 Mile South
AA143	900	1/2 - 1 Mile South
AC145	CAUSGSN00005704	1/2 - 1 Mile NE
AD149	CAUSGSN00000158	1/2 - 1 Mile East
AD151	CAUSGSN00009752	1/2 - 1 Mile East
AE152	CADWR0000008023	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

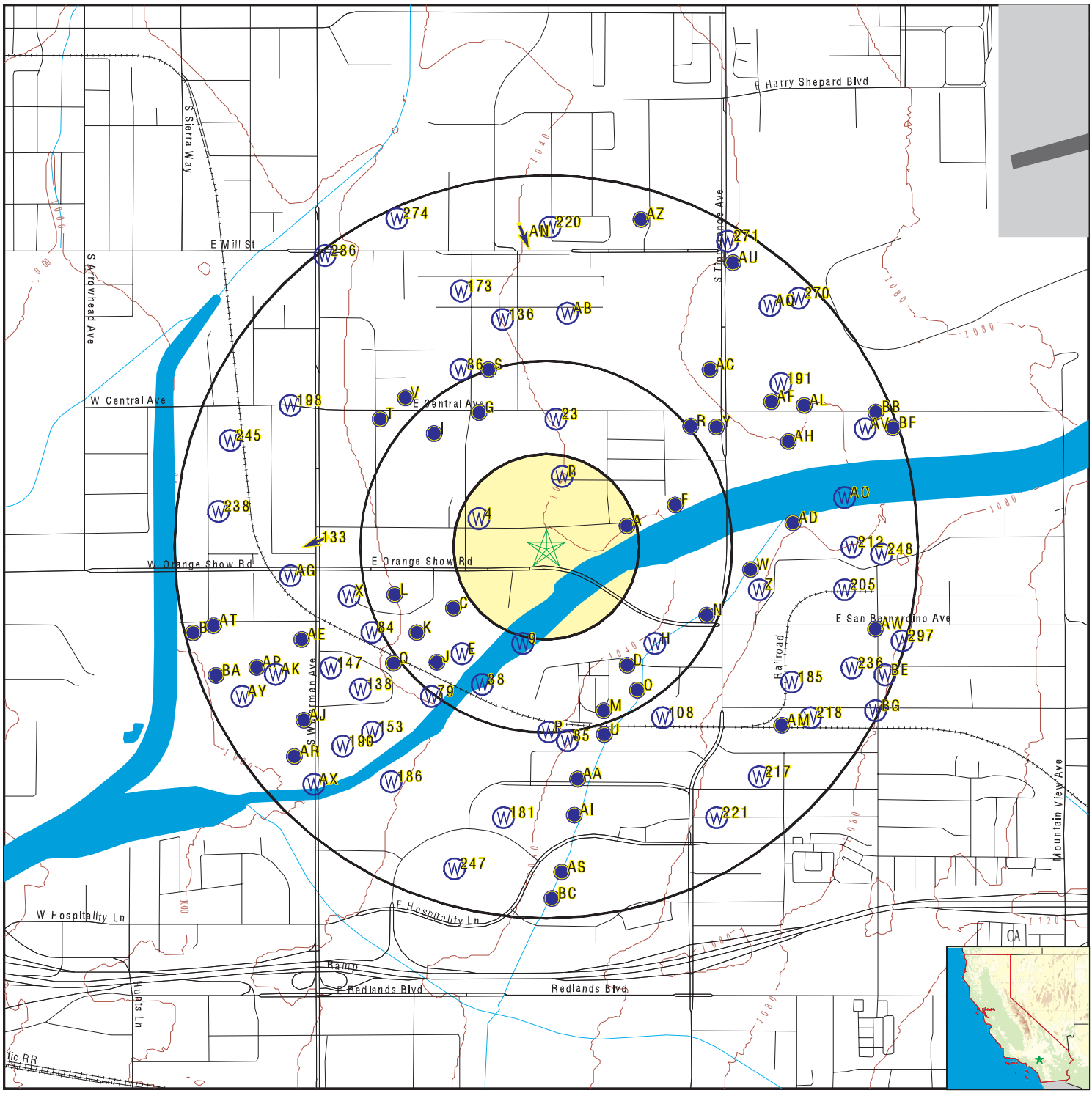
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AF154	CADWR0000004962	1/2 - 1 Mile ENE
AF155	CADWR0000012317	1/2 - 1 Mile ENE
AF156	CADWR0000019436	1/2 - 1 Mile ENE
AG157	CADDW0000005151	1/2 - 1 Mile West
AH158	CADWR0000026656	1/2 - 1 Mile ENE
AH160	CADDW0000006130	1/2 - 1 Mile ENE
AH161	CAPFAS000000434	1/2 - 1 Mile ENE
AH162	CADDW0000001857	1/2 - 1 Mile ENE
AH163	CAUSGSN00001413	1/2 - 1 Mile ENE
AG164	CADWR0000024291	1/2 - 1 Mile West
AF165	CADWR9000006714	1/2 - 1 Mile NE
AH166	CADWR0000012252	1/2 - 1 Mile ENE
AE167	CAUSGSN00018148	1/2 - 1 Mile WSW
AH169	CADDW0000012555	1/2 - 1 Mile ENE
AH171	CAUSGSN00005708	1/2 - 1 Mile ENE
AI172	936	1/2 - 1 Mile South
AI174	CADDW0000016725	1/2 - 1 Mile South
AI175	CAPFAS000000950	1/2 - 1 Mile South
AE176	CADWR9000006652	1/2 - 1 Mile WSW
AI178	CAUSGSN00017599	1/2 - 1 Mile South
AH179	893	1/2 - 1 Mile ENE
AF180	CADWR9000006713	1/2 - 1 Mile ENE
181	CADWR0000017605	1/2 - 1 Mile South
AH182	CAPFAS000001280	1/2 - 1 Mile ENE
AH183	CADDW0000009735	1/2 - 1 Mile ENE
AF184	CADWR0000029047	1/2 - 1 Mile ENE
185	940	1/2 - 1 Mile ESE
186	929	1/2 - 1 Mile SSW
AF189	CAUSGSN00000788	1/2 - 1 Mile ENE
AJ192	CAUSGSN00000930	1/2 - 1 Mile SW
AJ193	CADDW0000016346	1/2 - 1 Mile SW
AJ195	CADWR0000029470	1/2 - 1 Mile SW
AK196	CADWR0000027471	1/2 - 1 Mile WSW
AL197	CADWR0000026646	1/2 - 1 Mile ENE
198	CADWR0000021772	1/2 - 1 Mile WNW
AJ199	926	1/2 - 1 Mile SW
AJ200	927	1/2 - 1 Mile SW
AL203	CAUSGSN00019038	1/2 - 1 Mile ENE
AM204	CAUSGSN00003868	1/2 - 1 Mile SE
205	CADWR0000015869	1/2 - 1 Mile East
AO207	CADWR0000012322	1/2 - 1 Mile East
AO208	CADWR0000035691	1/2 - 1 Mile East
AK209	CADWR0000023183	1/2 - 1 Mile WSW
AK210	CAUSGSN00016370	1/2 - 1 Mile WSW
AJ213	CAUSGSN00015705	1/2 - 1 Mile SW
AJ215	CADDW0000004249	1/2 - 1 Mile SW
AJ216	CADWR0000010293	1/2 - 1 Mile SW
217	CADWR0000009889	1/2 - 1 Mile SE
AQ219	CADWR0000034974	1/2 - 1 Mile NE
221	CADWR0000037287	1/2 - 1 Mile SSE
AN222	CADWR9000006754	1/2 - 1 Mile North
AP223	CADWR9000006649	1/2 - 1 Mile WSW

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AR224	CADDW0000017993	1/2 - 1 Mile SW
AS225	CADWR0000000464	1/2 - 1 Mile South
AS226	CADWR0000002738	1/2 - 1 Mile South
AR227	CAUSGSN00008406	1/2 - 1 Mile SW
AR230	928	1/2 - 1 Mile SW
AS232	CADDW0000002471	1/2 - 1 Mile South
AS233	CAPFAS000001074	1/2 - 1 Mile South
AR237	CADWR0000022355	1/2 - 1 Mile SW
AV239	CAPFAS000001075	1/2 - 1 Mile ENE
AV240	CADDW0000022484	1/2 - 1 Mile ENE
AU242	CADWR9000006740	1/2 - 1 Mile NNE
AX243	CAPFAS000000426	1/2 - 1 Mile SW
AX244	CADDW0000010486	1/2 - 1 Mile SW
247	CAEDF0000128121	1/2 - 1 Mile SSW
AU249	CADWR9000006743	1/2 - 1 Mile NNE
AZ250	CADWR9000006757	1/2 - 1 Mile NNE
AQ251	CADWR9000006734	1/2 - 1 Mile NE
AU253	CADWR0000015866	1/2 - 1 Mile NE
AR254	CADWR0000037734	1/2 - 1 Mile SW
BA255	CADWR0000007693	1/2 - 1 Mile WSW
AU257	CAUSGSN00013589	1/2 - 1 Mile NE
BA260	CADDW0000021837	1/2 - 1 Mile WSW
AW261	941	1/2 - 1 Mile ESE
BB262	894	1/2 - 1 Mile ENE
AT264	CADWR0000032990	1/2 - 1 Mile WSW
AT265	CADWR9000006662	1/2 - 1 Mile WSW
BC266	CAUSGSN00011472	1/2 - 1 Mile South
BD268	CAUSGSN00005954	1/2 - 1 Mile WSW
BC272	934	1/2 - 1 Mile South
AV273	895	1/2 - 1 Mile ENE
274	CADWR0000015862	1/2 - 1 Mile NNW
BE275	CADDW0000014976	1/2 - 1 Mile ESE
BE276	CAPFAS000000766	1/2 - 1 Mile ESE
BE277	CADDW0000003819	1/2 - 1 Mile ESE
BE278	CADDW0000012728	1/2 - 1 Mile ESE
BA279	920	1/2 - 1 Mile WSW
BA280	921	1/2 - 1 Mile WSW
BF282	CADDW0000021753	1/2 - 1 Mile ENE
BF283	CAPFAS000000221	1/2 - 1 Mile ENE
BF284	CAUSGSN00011115	1/2 - 1 Mile ENE
BF285	CADPR0000001623	1/2 - 1 Mile ENE
BF287	CAUSGSN00016453	1/2 - 1 Mile ENE
BD288	CAPFAS000001615	1/2 - 1 Mile WSW
BD289	CADDW0000014252	1/2 - 1 Mile WSW
BD290	CAUSGS000002748	1/2 - 1 Mile WSW
BD291	CAUSGSN00013623	1/2 - 1 Mile WSW
BF292	CADDW0000007042	1/2 - 1 Mile ENE
297	CADDW0000014572	1/2 - 1 Mile ESE
BF298	CAPFAS000000777	1/2 - 1 Mile ENE
BF299	CADDW0000002044	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 6958905.2s



- 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

0 1/4 1/2 1 Miles

- 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:	Gateway South Building 9 Assemblage	CLIENT:	GeoSyntec Consultants
ADDRESS:	707 East Norman Road San Bernardino CA 92408	CONTACT:	Jackie Hyman
LAT/LONG:	34.080581 / 117.267997	INQUIRY #:	6958905.2s
		DATE:	April 28, 2022 8:55 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
ENE
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR9000006678**

State Well #:	01S04W14J003S	Station ID:	2495
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

B2
North
1/8 - 1/4 Mile
Higher

CA WELLS **906**

Seq:	906	Prim sta c:	01S/04W-14H03 S
Frds no:	3610067002	County:	36
District:	13	User id:	TAN
System no:	3610067	Water type:	G
Source nam:	SUNNYSIDE WELL - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340500.0	Longitude:	1171600.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610067	System nam:	South San Bernardino Cwd - North
Hqname:	SOUTH SAN BERNARDINO CWD	Address:	882 S TIPPECANOE AVE
City:	SAN BERNARDINO	State:	Not Reported
Zip:	92408	Zip ext:	Not Reported
Pop serv:	600	Connection:	191
Area serve:	SOUTH SAN BERNARDINO		

B3
North
1/8 - 1/4 Mile
Higher

CA WELLS **907**

Seq:	907	Prim sta c:	01S/04W-14J05 S
Frds no:	3610067001	County:	36
District:	13	User id:	TAN
System no:	3610067	Water type:	G
Source nam:	NORMAN ROAD WELL - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340500.0	Longitude:	1171600.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610067	System nam:	South San Bernardino Cwd - North
Hqname:	SOUTH SAN BERNARDINO CWD	Address:	882 S TIPPECANOE AVE
City:	SAN BERNARDINO	State:	Not Reported
Zip:	92408	Zip ext:	Not Reported
Pop serv:	600	Connection:	191
Area serve:	SOUTH SAN BERNARDINO		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

4
WNW
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000140741**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14P00AS	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19500101	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-09-14
Feet below surface:	37.50	Feet to sea level:	Not Reported
Note:	Not Reported		

B5
NNE
1/8 - 1/4 Mile
Higher

CA WELLS **CADDW0000019295**

Well ID:	3610067-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	NORMAN ROAD WELL - INACTIVE		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610067-001&store_num=		
GeoTracker Data:	Not Reported		

A6
ENE
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR0000028966**

Well ID:	01S04W14J003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14J003S	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=01S04W14J003S&store_num=		
GeoTracker Data:	Not Reported		

A7
ENE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000140737**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14J003S	Type:	Well

Description:	Not Reported	HUC:	18070203
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:	19550101	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	183
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1955-01-18
Feet below surface:	46.00	Feet to sea level:	Not Reported
Note:	Not Reported		

A8
ENE **CA WELLS** **CAUSGSN00005082**
1/8 - 1/4 Mile
Higher

Well ID:	USGS-340453117154701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340453117154701	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-340453117154701&store_num=		
GeoTracker Data:	Not Reported		

9
SSW **CA WELLS** **CADPR0000001175**
1/4 - 1/2 Mile
Lower

Well ID:	84209	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84209	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84209&store_num=		
GeoTracker Data:	Not Reported		

C10
SW **CA WELLS** **CADWR0000002979**
1/4 - 1/2 Mile
Lower

Well ID:	01S04W14P006S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14P006S	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=01S04W14P006S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C11
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140707**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14P001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19500101	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	121
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-09-14
Feet below surface:	28.00	Feet to sea level:	Not Reported
Note:	Not Reported		

C12
SW
1/4 - 1/2 Mile
Lower

CA WELLS **911**

Seq:	911	Prim sta c:	01S/04W-14P06 S
Frds no:	3310031079	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	RAUB WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340439.7	Longitude:	1171614.0
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

C13
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140694**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14P003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19520101	Well Depth:	687
Well Depth Units:	ft	Well Hole Depth:	690
Well Hole Depth Units:	ft		

C14
WSW **CA WELLS** **CAUSGSN00002692**
1/4 - 1/2 Mile
Lower

Well ID:	USGS-340442117161802	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340442117161802	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-340442117161802&store_num=		
GeoTracker Data:	Not Reported		

C15
WSW **FED USGS** **USGS40000140703**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14P006S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19520101	Well Depth:	691
Well Depth Units:	ft	Well Hole Depth:	691
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	280	Level reading date:	1970-03-31
Feet below surface:	122.50	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1969-11-26	Feet below surface:	107.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-01	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-03	Feet below surface:	111.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-03	Feet below surface:	122.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-30	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-11	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-07-07	Feet below surface:	134.00

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-02	Feet below surface:	117.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-05	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-31	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-03	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-03	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-06	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-02	Feet below surface:	126.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-04	Feet below surface:	136.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-07	Feet below surface:	130.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-30	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-12	Feet below surface:	143.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-29	Feet below surface:	143.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-24	Feet below surface:	131.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-20	Feet below surface:	120.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-15	Feet below surface:	121.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-11	Feet below surface:	103.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-11	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-14	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-24	Feet below surface:	92.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-26	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-10-22	Feet below surface:	127.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-10	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-18	Feet below surface:	149.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-05-14	Feet below surface:	99.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-16	Feet below surface:	78.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-02	Feet below surface:	87.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-19	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-05	Feet below surface:	107.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-19	Feet below surface:	110.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-05	Feet below surface:	101.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-15	Feet below surface:	82.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-02	Feet below surface:	87.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-18	Feet below surface:	103.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-04	Feet below surface:	98.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-20	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-06	Feet below surface:	111.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-23	Feet below surface:	110.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-25	Feet below surface:	121.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-14	Feet below surface:	127.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-07-17	Feet below surface:	149.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-19	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1964-05-15	Feet below surface:	130.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-01	Feet below surface:	102.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-10	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-13	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-14	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-10	Feet below surface:	129.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-13	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	79.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-15	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-01	Feet below surface:	88.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-18	Feet below surface:	97.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-04	Feet below surface:	88.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-13	Feet below surface:	141.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-30	Feet below surface:	143.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-16	Feet below surface:	140.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-01	Feet below surface:	141.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-12	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-21	Feet below surface:	101.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-07	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-24	Feet below surface:	91.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-10	Feet below surface:	80.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-04-26	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-29	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-15	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-01	Feet below surface:	76.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-08	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-26	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-21	Feet below surface:	84.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-08	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-23	Feet below surface:	82.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-09	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-26	Feet below surface:	125.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-12	Feet below surface:	127.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-28	Feet below surface:	88.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	130.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-31	Feet below surface:	131.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-17	Feet below surface:	130.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-03	Feet below surface:	128.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-20	Feet below surface:	123.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-29	Feet below surface:	120.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-15	Feet below surface:	70.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-01	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-05-18	Feet below surface:	62.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-04	Feet below surface:	102.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-13	Feet below surface:	101.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-30	Feet below surface:	42.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-16	Feet below surface:	42.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-02	Feet below surface:	52.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-22	Feet below surface:	46.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-02	Feet below surface:	67.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01-05	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-22	Feet below surface:	51.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-08	Feet below surface:	54.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-17	Feet below surface:	77.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-03	Feet below surface:	75.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-13	Feet below surface:	103.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-29	Feet below surface:	104.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-15	Feet below surface:	88.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-08	Feet below surface:	108.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-04	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-14	Feet below surface:	107.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-30	Feet below surface:	110.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-16	Feet below surface:	105.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1961-06-02	Feet below surface:	72.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-12	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-05	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-14	Feet below surface:	69.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-31	Feet below surface:	53.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-16	Feet below surface:	50.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-03	Feet below surface:	93.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-02-17	Feet below surface:	59.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-03	Feet below surface:	39.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-20	Feet below surface:	93.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-01-06	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-23	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-25	Feet below surface:	58.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-11	Feet below surface:	40.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-28	Feet below surface:	66.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-14	Feet below surface:	50.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-30	Feet below surface:	62.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-14	Feet below surface:	69.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-02	Feet below surface:	75.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-19	Feet below surface:	101.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-05	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1960-07-15	Feet below surface:	100.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-01	Feet below surface:	99.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-22	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-10	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-27	Feet below surface:	102.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-20	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-29	Feet below surface:	48.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-15	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-01	Feet below surface:	95.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-18	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-04	Feet below surface:	17.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-19	Feet below surface:	78.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-01-29	Feet below surface:	28.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-15	Feet below surface:	24.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-03	Feet below surface:	30.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-18	Feet below surface:	58.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-04	Feet below surface:	96.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-13	Feet below surface:	54.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-02	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-19	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-02	Feet below surface:	91.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1959-09-25	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-18	Feet below surface:	59.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-11	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-04	Feet below surface:	88.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-28	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-21	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-14	Feet below surface:	89.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-07	Feet below surface:	103.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-31	Feet below surface:	98.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-24	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-17	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-03	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-26	Feet below surface:	72.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-19	Feet below surface:	70.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-12	Feet below surface:	64.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-05	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-22	Feet below surface:	87.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-15	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-08	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-01	Feet below surface:	55.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-24	Feet below surface:	51.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-04-17	Feet below surface:	45.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-10	Feet below surface:	41.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-27	Feet below surface:	47.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-13	Feet below surface:	19.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-20	Feet below surface:	13.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-06	Feet below surface:	44.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-23	Feet below surface:	29.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-02	Feet below surface:	35.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-19	Feet below surface:	46.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-05	Feet below surface:	82.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-21	Feet below surface:	83.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-07	Feet below surface:	83.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-24	Feet below surface:	34.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-17	Feet below surface:	90.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-10	Feet below surface:	49.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-26	Feet below surface:	90.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-19	Feet below surface:	92.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-13	Feet below surface:	53.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-05	Feet below surface:	87.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-29	Feet below surface:	81.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-22	Feet below surface:	85.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-08-16	Feet below surface:	43.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-08	Feet below surface:	93.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-01	Feet below surface:	87.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-25	Feet below surface:	91.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-18	Feet below surface:	89.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-11	Feet below surface:	92.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-04	Feet below surface:	88.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-27	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-20	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-13	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-06	Feet below surface:	86.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-30	Feet below surface:	60.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-23	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-16	Feet below surface:	84.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-09	Feet below surface:	82.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-25	Feet below surface:	30.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-10	Feet below surface:	60.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	3.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	4.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-21	Feet below surface:	13.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-07	Feet below surface:	16.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-01-24	Feet below surface:	34.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-13	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-27	Feet below surface:	22.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-13	Feet below surface:	28.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-29	Feet below surface:	37.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-15	Feet below surface:	22.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-01	Feet below surface:	29.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-18	Feet below surface:	39.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-04	Feet below surface:	67.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-28	Feet below surface:	112.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-20	Feet below surface:	61.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-13	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-06	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-30	Feet below surface:	66.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-25	Feet below surface:	65.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-23	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-16	Feet below surface:	99.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-09	Feet below surface:	98.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-02	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	102.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-19	Feet below surface:	100.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-07-12	Feet below surface:	100.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-05	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-29	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-28	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-21	Feet below surface:	93.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-12	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-25	Feet below surface:	23.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-10	Feet below surface:	77.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-08	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-28	Feet below surface:	67.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-26	Feet below surface:	18.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-17	Feet below surface:	39.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-12	Feet below surface:	31.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-01	Feet below surface:	74.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-03-15	Feet below surface:	60.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-03-01	Feet below surface:	12.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-15	Feet below surface:	69.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-02-04	Feet below surface:	16.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-21	Feet below surface:	11.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-04	Feet below surface:	33.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-14	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1956-11-30	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-16	Feet below surface:	42.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-02	Feet below surface:	37.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-19	Feet below surface:	44.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-05	Feet below surface:	45.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-21	Feet below surface:	93.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-07	Feet below surface:	97.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-24	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-10	Feet below surface:	95.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-27	Feet below surface:	51.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-13	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-29	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-15	Feet below surface:	90.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-05	Feet below surface:	84.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-05-07	Feet below surface:	80.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-01	Feet below surface:	2.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-01	Feet below surface:	3.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-10-01	Feet below surface:	6.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-02	Feet below surface:	8.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-01	Feet below surface:	24.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-30	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C16
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140702**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14P002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19120101	Well Depth:	580
Well Depth Units:	ft	Well Hole Depth:	580
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	403	Level reading date:	1970-03-31
Feet below surface:	89.40	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1969-11-26	Feet below surface:	104.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-01	Feet below surface:	100.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-03	Feet below surface:	105.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-03	Feet below surface:	118.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-30	Feet below surface:	94.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-08	Feet below surface:	130.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-11	Feet below surface:	133.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-07-07	Feet below surface:	127.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-02	Feet below surface:	115.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-05	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-01	Feet below surface:	104.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-03	Feet below surface:	113.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-03	Feet below surface:	87.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-01-06	Feet below surface:	89.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-02	Feet below surface:	122.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-28	Feet below surface:	134.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-07	Feet below surface:	127.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-16	Feet below surface:	136.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-20	Feet below surface:	136.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-15	Feet below surface:	134.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-17	Feet below surface:	128.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-20	Feet below surface:	115.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-15	Feet below surface:	115.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-11	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-04	Feet below surface:	84.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-07	Feet below surface:	86.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-10	Feet below surface:	92.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-12	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-08	Feet below surface:	124.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-10	Feet below surface:	122.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-25	Feet below surface:	119.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-11	Feet below surface:	121.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-21	Feet below surface:	123.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-07	Feet below surface:	98.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-04-23	Feet below surface:	85.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-09	Feet below surface:	78.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-26	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-12	Feet below surface:	96.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-20	Feet below surface:	107.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-12	Feet below surface:	101.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-29	Feet below surface:	91.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-08	Feet below surface:	82.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-25	Feet below surface:	98.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-11	Feet below surface:	104.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-27	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-12	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-30	Feet below surface:	110.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-09	Feet below surface:	116.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-25	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-11	Feet below surface:	124.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-28	Feet below surface:	122.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-14	Feet below surface:	121.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-07-31	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-07-10	Feet below surface:	121.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-19	Feet below surface:	110.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1964-05-15	Feet below surface:	100.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-01	Feet below surface:	99.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-10	Feet below surface:	83.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-13	Feet below surface:	95.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-14	Feet below surface:	85.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-10	Feet below surface:	96.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-12-13	Feet below surface:	79.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-15	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-01	Feet below surface:	86.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-18	Feet below surface:	96.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-04	Feet below surface:	89.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-13	Feet below surface:	108.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-30	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-16	Feet below surface:	111.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-01	Feet below surface:	112.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-07-12	Feet below surface:	108.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-21	Feet below surface:	101.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-07	Feet below surface:	92.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-24	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-10	Feet below surface:	83.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-04-26	Feet below surface:	71.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-29	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-15	Feet below surface:	71.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-01	Feet below surface:	73.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-08	Feet below surface:	85.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-26	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-21	Feet below surface:	79.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-08	Feet below surface:	83.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-23	Feet below surface:	82.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-09	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-26	Feet below surface:	107.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-12	Feet below surface:	96.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-28	Feet below surface:	88.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	99.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-08-31	Feet below surface:	100.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-08-17	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-08-03	Feet below surface:	97.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-07-20	Feet below surface:	92.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-29	Feet below surface:	92.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-15	Feet below surface:	71.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-01	Feet below surface:	71.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-05-18	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-04	Feet below surface:	80.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04-13	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-30	Feet below surface:	46.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-16	Feet below surface:	46.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-02	Feet below surface:	52.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-22	Feet below surface:	49.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-02	Feet below surface:	65.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01-05	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-22	Feet below surface:	53.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-08	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-17	Feet below surface:	79.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-03	Feet below surface:	78.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-13	Feet below surface:	89.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-29	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-15	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-01	Feet below surface:	93.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-18	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-04	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-14	Feet below surface:	91.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-30	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1961-06-16	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-02	Feet below surface:	72.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-12	Feet below surface:	75.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-05	Feet below surface:	66.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-14	Feet below surface:	71.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-31	Feet below surface:	55.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-16	Feet below surface:	56.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-03	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-17	Feet below surface:	54.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-03	Feet below surface:	43.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-20	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-06	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-23	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-25	Feet below surface:	58.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-11	Feet below surface:	45.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-28	Feet below surface:	67.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-14	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-30	Feet below surface:	66.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-14	Feet below surface:	69.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-02	Feet below surface:	74.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-19	Feet below surface:	78.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-08-05	Feet below surface:	77.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-15	Feet below surface:	75.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-01	Feet below surface:	73.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-24	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-10	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-27	Feet below surface:	69.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-20	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-29	Feet below surface:	47.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-15	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-01	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-18	Feet below surface:	43.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-04	Feet below surface:	21.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-19	Feet below surface:	27.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-29	Feet below surface:	30.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-15	Feet below surface:	28.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-03	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-18	Feet below surface:	60.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-04	Feet below surface:	67.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-13	Feet below surface:	55.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-02	Feet below surface:	61.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-19	Feet below surface:	73.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-10-02	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-25	Feet below surface:	60.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-18	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-11	Feet below surface:	58.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-04	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-28	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-21	Feet below surface:	67.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-14	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-07	Feet below surface:	67.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-31	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-24	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-17	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-10	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-03	Feet below surface:	66.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-19	Feet below surface:	66.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-12	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-05	Feet below surface:	58.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-22	Feet below surface:	54.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-15	Feet below surface:	42.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-08	Feet below surface:	57.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-01	Feet below surface:	52.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-04-24	Feet below surface:	47.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-17	Feet below surface:	44.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-10	Feet below surface:	37.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-27	Feet below surface:	39.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-13	Feet below surface:	19.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-20	Feet below surface:	15.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-06	Feet below surface:	41.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-23	Feet below surface:	29.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-02	Feet below surface:	41.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-19	Feet below surface:	44.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-05	Feet below surface:	46.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-21	Feet below surface:	46.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-07	Feet below surface:	44.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-24	Feet below surface:	35.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-17	Feet below surface:	56.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-10	Feet below surface:	49.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-26	Feet below surface:	50.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-19	Feet below surface:	55.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-13	Feet below surface:	33.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-05	Feet below surface:	51.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-29	Feet below surface:	49.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-08-22	Feet below surface:	53.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-16	Feet below surface:	43.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-08	Feet below surface:	58.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-01	Feet below surface:	57.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-25	Feet below surface:	56.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-18	Feet below surface:	55.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-11	Feet below surface:	65.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-04	Feet below surface:	54.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-27	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-20	Feet below surface:	54.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-13	Feet below surface:	52.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-06	Feet below surface:	46.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-30	Feet below surface:	48.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-23	Feet below surface:	41.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-16	Feet below surface:	40.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-09	Feet below surface:	34.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-25	Feet below surface:	25.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-10	Feet below surface:	2.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	2.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	6.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-21	Feet below surface:	14.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-02-07	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-24	Feet below surface:	33.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-13	Feet below surface:	24.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-27	Feet below surface:	23.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-13	Feet below surface:	28.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-29	Feet below surface:	41.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-15	Feet below surface:	24.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-01	Feet below surface:	31.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-18	Feet below surface:	40.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-04	Feet below surface:	61.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-28	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-20	Feet below surface:	57.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-13	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-06	Feet below surface:	65.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-30	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-09	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-02	Feet below surface:	66.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-26	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-19	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-12	Feet below surface:	75.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-05	Feet below surface:	63.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-06-28	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-21	Feet below surface:	59.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-12	Feet below surface:	49.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-25	Feet below surface:	24.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-10	Feet below surface:	36.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-26	Feet below surface:	20.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-12	Feet below surface:	32.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-01	Feet below surface:	39.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-15	Feet below surface:	19.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-01	Feet below surface:	15.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-15	Feet below surface:	20.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-04	Feet below surface:	10.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-21	Feet below surface:	14.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-04	Feet below surface:	34.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-14	Feet below surface:	42.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-30	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-16	Feet below surface:	43.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-02	Feet below surface:	39.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-14	Feet below surface:	45.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-05	Feet below surface:	47.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-21	Feet below surface:	60.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-09-07	Feet below surface:	61.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-24	Feet below surface:	61.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-10	Feet below surface:	60.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-27	Feet below surface:	47.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-13	Feet below surface:	66.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-15	Feet below surface:	54.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-29	Feet below surface:	57.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-06-01	Feet below surface:	21.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-05-03	Feet below surface:	2.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-01	Feet below surface:	4.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-01	Feet below surface:	0.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-01	Feet below surface:	1.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-01-04	Feet below surface:	8.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-01	Feet below surface:	5.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-02	Feet below surface:	26.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-01	Feet below surface:	31.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-09-01	Feet below surface:	37.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-08-03	Feet below surface:	24.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-01	Feet below surface:	28.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-06-02	Feet below surface:	12.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-05-01	Feet below surface:	2.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1953-04-01	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-02	Feet below surface:	14.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-02	Feet below surface:	21.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-05	Feet below surface:	23.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-01	Feet below surface:	15.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-10-01	Feet below surface:	10.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-02	Feet below surface:	13.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-08-01	Feet below surface:	22.40
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1952-07-02	Feet below surface:	9.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-02	Feet below surface:	21.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-09-01	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-08-02	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-07-01	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-06-01	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-05-01	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-11-01	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-10-01	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-09-02	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-08-01	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-07-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-06-02	Feet below surface:	0.60

Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-05-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-04-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-03-03	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1947-02-15	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-10-01	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-09-03	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-08-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-07-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-06-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-05-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-11-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-10-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-09-04	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-08-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-07-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-06-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-05-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-11-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-10-02	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-09-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1944-08-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-07-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-06-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-05-17	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-04-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-12-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-10-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-09-15	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-08-13	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-07-15	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-06-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-05-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-04-02	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-03-02	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-02-01	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-01-15	Feet below surface:	0.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-16	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-11-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-10-16	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-09-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-08-03	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1942-07-02	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-06-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-05-15	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-11-18	Feet below surface:	50.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-05	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-09-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-08-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-07-18	Feet below surface:	18.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-06-15	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-05-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1941-03-11	Feet below surface:	59.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-30	Feet below surface:	55.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-20	Feet below surface:	48.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-10-05	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-09-03	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-08-05	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-07-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-06-03	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-05-01	Feet below surface:	38.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1940-03-29	Feet below surface:	40.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-01	Feet below surface:	57.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-31	Feet below surface:	56.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-03	Feet below surface:	38.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-12-05	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-11-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-10-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-09-02	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-08-01	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-07-15	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-06-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-05-02	Feet below surface:	31.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-30	Feet below surface:	40.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-04	Feet below surface:	52.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-07	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1938-09-06	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1938-08-02	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1938-07-01	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1938-06-15	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1937-08-02	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1937-07-01	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1916-04-15	Feet below surface:	65.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1916-03-22	Feet below surface:	71.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1916-02-24	Feet below surface:	70.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1916-01-14	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-12-23	Feet below surface:	62.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-11-24	Feet below surface:	44.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-10-19	Feet below surface:	38.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-09-13	Feet below surface:	37.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-08-17	Feet below surface:	34.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-06-02	Feet below surface:	57.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-04-26	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported

C17
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000018822**

Well ID:	3310031-079	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 03 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-079&store_num=		
GeoTracker Data:	Not Reported		

C18
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000006671**

State Well #:	01S04W14P001S	Station ID:	2496
Well Name:	Not Reported	Basin Name:	San Bernardino
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
CA WELLS	**CADWR9000006669**

C19
WSW
1/4 - 1/2 Mile
Lower

State Well #:	01S04W14P002S	Station ID:	26987
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

D20
SE
1/4 - 1/2 Mile
Higher

CA WELLS **931**

Seq:	931	Prim sta c:	01S/04W-23A05 S
Frds no:	3310031036	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 51-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340436.6	Longitude:	1171550.4
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	02-MAR-18	Finding:	8.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	02-MAR-18	Finding:	2.5e-003
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)	Report units:	UG/L
Dlr:	0.		

Sample date:	02-MAR-18	Finding:	8.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	07-FEB-18	Finding:	8.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	07-FEB-18	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	29-JAN-18	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	29-JAN-18	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	8.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-JAN-18	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	72.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	9.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	29-JAN-18	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-JAN-18	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	29-JAN-18	Finding:	3.4
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	5.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	29-JAN-18	Finding:	0.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	0.39
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	29-JAN-18	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-JAN-18	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-JAN-18	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	5.7e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	8.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-JAN-18	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	0.87
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	1.2
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	530.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	29-JAN-18	Finding:	330.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	324.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	29-JAN-18	Finding:	0.491
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-18	Finding:	0.21
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-DEC-17	Finding:	8.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-NOV-17	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	2.2
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-NOV-17	Finding:	6.8e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	71.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	9.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	29-NOV-17	Finding:	0.44
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-NOV-17	Finding:	22.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	2.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	29-NOV-17	Finding:	3.2
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	5.5
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	29-NOV-17	Finding:	8.5e-003
Chemical:	LITHIUM	Report units:	UG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	6.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	29-NOV-17	Finding:	1.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	5.4
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	29-NOV-17	Finding:	0.73
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-NOV-17	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-NOV-17	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	29-NOV-17	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	29-NOV-17	Finding:	5.9e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	8.6
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-NOV-17	Finding:	2.7
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	0.26
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	0.83
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	2.
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	1.02
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	0.444
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	287.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-NOV-17	Finding:	278.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-OCT-17	Finding:	7.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-OCT-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-SEP-17	Finding:	8.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	27-SEP-17	Finding:	8.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-AUG-17	Finding:	9.72
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-AUG-17	Finding:	2.41
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	5.47
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	25-AUG-17	Finding:	0.979
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	0.63
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	2.87
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	1.39
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	1.39
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	262.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	273.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	25-AUG-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-AUG-17	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	9.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	26.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	47.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-AUG-17	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-AUG-17	Finding:	2.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	25-AUG-17	Finding:	3.1
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	5.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	25-AUG-17	Finding:	0.17
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-AUG-17	Finding:	8.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-17	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	25-AUG-17	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	2.1e-003
Chemical:	N-NITROSODI-N-BUTYLAMINE (NDBA)	Report units:	UG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	6.2e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	8.4
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-AUG-17	Finding:	21.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-AUG-17	Finding:	0.37
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-AUG-17	Finding:	0.73
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JUL-17	Finding:	8.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-17	Finding:	7.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAY-17	Finding:	0.2
Chemical:	DCPA (TOTAL DI & MONO ACID DEGRADATES)		
Report units:	UG/L	Dlr:	0.
Sample date:	19-MAY-17	Finding:	0.27
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-MAY-17	Finding:	6.3e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	0.461
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	1.02
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	19-MAY-17	Finding:	271.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	285.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-MAY-17	Finding:	0.12
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	75.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	49.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-MAY-17	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	19-MAY-17	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	19-MAY-17	Finding:	3.
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	5.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	19-MAY-17	Finding:	5.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	19-MAY-17	Finding:	0.79
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	4.2
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	19-MAY-17	Finding:	0.42
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-MAY-17	Finding:	7.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-MAY-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	8.4
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-MAY-17	Finding:	2.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	0.37
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	0.76
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	1.2
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	19-MAY-17	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAY-17	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-APR-17	Finding:	8.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-17	Finding:	9.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-APR-17	Finding:	0.52
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-17	Finding:	8.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAR-17	Finding:	9.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	45.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-FEB-17	Finding:	3.1
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	5.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	09-FEB-17	Finding:	7.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-FEB-17	Finding:	0.83
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	4.9
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	09-FEB-17	Finding:	0.54
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	09-FEB-17	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-FEB-17	Finding:	10.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	6.2e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	8.5
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-FEB-17	Finding:	41.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-FEB-17	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	0.34
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	0.76
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	1.5
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	0.217
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	0.472
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	309.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-FEB-17	Finding:	317.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	3.4
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	8.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-FEB-17	Finding:	6.8e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	75.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-17	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-DEC-16	Finding:	2.2
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	0.791
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	02-DEC-16	Finding:	264.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	267.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	72.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	48.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-DEC-16	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-DEC-16	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	02-DEC-16	Finding:	2.5
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	5.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	02-DEC-16	Finding:	4.5
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	02-DEC-16	Finding:	0.73
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	0.15
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-DEC-16	Finding:	6.3e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	8.6
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-DEC-16	Finding:	0.32
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	0.79
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-DEC-16	Finding:	0.344
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-16	Finding:	10.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-OCT-16	Finding:	46.
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	28-OCT-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-OCT-16	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-16	Finding:	0.52
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-16	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-SEP-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-SEP-16	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-16	Finding:	44.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-SEP-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-SEP-16	Finding:	4.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	66.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	14.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	48.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	28-JUL-16	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	28-JUL-16	Finding:	2.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	28-JUL-16	Finding:	2.9
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	5.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	28-JUL-16	Finding:	8.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-JUL-16	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	5.9
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	28-JUL-16	Finding:	1.9
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	0.2
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	28-JUL-16	Finding:	1.2
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	28-JUL-16	Finding:	0.55
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-16	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-16	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	1.9
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L

Dlr:	0.		
Sample date:	28-JUL-16	Finding:	5.3e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	7.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-JUL-16	Finding:	47.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	28-JUL-16	Finding:	21.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JUL-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	0.38
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	0.57
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	1.5
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-JUL-16	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	28-JUL-16	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	28-JUL-16	Finding:	267.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	0.382
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	0.151
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-JUL-16	Finding:	153.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JAN-16	Finding:	5.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JAN-16	Finding:	8.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-DEC-15	Finding:	1.7
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-DEC-15	Finding:	0.28
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	0.449
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	342.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	364.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	10-DEC-15	Finding:	580.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

Dlr:	0.		
Sample date:	10-DEC-15	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	2.2
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-DEC-15	Finding:	6.8e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	240.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	78.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	64.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	10-DEC-15	Finding:	0.86
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	2.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	10-DEC-15	Finding:	3.
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	5.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	10-DEC-15	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	8.3
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	10-DEC-15	Finding:	2.2
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	0.12
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-DEC-15	Finding:	9.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-DEC-15	Finding:	7.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-DEC-15	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-15	Finding:	3.1e-003
Chemical:	N-NITROSODI-N-BUTYLAMINE (NDBA)	Report units:	UG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	9.5e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	10-DEC-15	Finding:	7.e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported

Dlr:	0.		
Sample date:	10-DEC-15	Finding:	8600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-OCT-15	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	01-OCT-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-OCT-15	Finding:	8.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-SEP-15	Finding:	26.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	46.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-SEP-15	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-SEP-15	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-SEP-15	Finding:	3.
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	5.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	04-SEP-15	Finding:	9.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-SEP-15	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	1.8
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	04-SEP-15	Finding:	0.12
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-SEP-15	Finding:	0.553
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	315.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	340.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	0.1
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	73.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	8.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-SEP-15	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	04-SEP-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-SEP-15	Finding:	6.6e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	04-SEP-15	Finding:	8.2e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	04-SEP-15	Finding:	6.2e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	8800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-SEP-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	0.33
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	0.71
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-SEP-15	Finding:	1.5
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-15	Finding:	7.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-15	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-JUN-15	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUN-15	Finding:	6.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	18-JUN-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUN-15	Finding:	9.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-MAY-15	Finding:	23.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	45.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-MAY-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-MAY-15	Finding:	2.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-MAY-15	Finding:	2.8
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	5.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	21-MAY-15	Finding:	5.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-MAY-15	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	4.2
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	21-MAY-15	Finding:	1.6
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	21-MAY-15	Finding:	7.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-MAY-15	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-15	Finding:	6.e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	21-MAY-15	Finding:	6.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	21-MAY-15	Finding:	6.5e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	8700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAY-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	0.38
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	0.82
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	1.3
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	71.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	21-MAY-15	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	0.16
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	2.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	292.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	0.21
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	285.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	510.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	30-APR-15	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-15	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	66.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	30-APR-15	Finding:	9.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	22.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	14.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	30-APR-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	30-APR-15	Finding:	5.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	30-APR-15	Finding:	0.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-APR-15	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-APR-15	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-15	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-APR-15	Finding:	7.5e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	30-APR-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-15	Finding:	8200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	30-APR-15	Finding:	44.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-MAR-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAR-15	Finding:	6.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAR-15	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-MAR-15	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAR-15	Finding:	7.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	47.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-JAN-15	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-JAN-15	Finding:	5.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	08-JAN-15	Finding:	7.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JAN-15	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	08-JAN-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	9100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-JAN-15	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	75.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-DEC-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-DEC-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-DEC-14	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-DEC-14	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-DEC-14	Finding:	1.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	20-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	0.28
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	0.76
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	1.
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	8900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-NOV-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	6.6e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-NOV-14	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	6.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-NOV-14	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-NOV-14	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	1.2
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	4.2
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	20-NOV-14	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	20-NOV-14	Finding:	6.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	20-NOV-14	Finding:	5.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	20-NOV-14	Finding:	3.
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	20-NOV-14	Finding:	0.44
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	20-NOV-14	Finding:	108.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	0.176
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	2.7
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	76.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	20-NOV-14	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	20-NOV-14	Finding:	48.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-OCT-14	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	7.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-SEP-14	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-SEP-14	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	8.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-SEP-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-14	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-AUG-14	Finding:	2.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-AUG-14	Finding:	3.2
Chemical:	MOLYDBENDUM	Report units:	UG/L

Dlr:	0.		
Sample date:	21-AUG-14	Finding:	5.8
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	21-AUG-14	Finding:	4.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-AUG-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	4.8
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	21-AUG-14	Finding:	1.1
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-AUG-14	Finding:	5.6e-002
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	7.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-14	Finding:	6.e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	21-AUG-14	Finding:	6.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	21-AUG-14	Finding:	6.3e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	21-AUG-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	8800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-AUG-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.36
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.88
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.86
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	10-JUL-14	Finding:	3.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	7.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-14	Finding:	123.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	0.87
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	510.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	21-MAY-14	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	46.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-MAY-14	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-MAY-14	Finding:	2.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-MAY-14	Finding:	3.2
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	4.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	21-MAY-14	Finding:	4.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-MAY-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	4.6
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	21-MAY-14	Finding:	1.1
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	0.22
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-MAY-14	Finding:	7.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-MAY-14	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	21-MAY-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-14	Finding:	3000.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	6.e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	21-MAY-14	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	21-MAY-14	Finding:	6.4e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	9200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAY-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	0.41
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	0.87
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-14	Finding:	0.189
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	24-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	24-APR-14	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	67.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	9.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	23.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	45.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-APR-14	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-APR-14	Finding:	5.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	24-APR-14	Finding:	8.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	24-APR-14	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-APR-14	Finding:	7.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-14	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-APR-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	24-APR-14	Finding:	2300.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	24-APR-14	Finding:	5.3e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	24-APR-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-APR-14	Finding:	9100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-APR-14	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	0.15
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	1.4
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	6.e-002
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	7.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-FEB-14	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-FEB-14	Finding:	6.e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	14-FEB-14	Finding:	7.3e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-FEB-14	Finding:	5.3e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	14-FEB-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	9200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-FEB-14	Finding:	29.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	14-FEB-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	0.39
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	0.8
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	1.2
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	132.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	0.199
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	14-FEB-14	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	45.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-FEB-14	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-FEB-14	Finding:	2.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-FEB-14	Finding:	2.7
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	4.7
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	14-FEB-14	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-FEB-14	Finding:	4.3
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	14-FEB-14	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-JAN-14	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	03-JAN-14	Finding:	73.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	46.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-JAN-14	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-JAN-14	Finding:	4.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-JAN-14	Finding:	0.57
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JAN-14	Finding:	7.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JAN-14	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JAN-14	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-JAN-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JAN-14	Finding:	9400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	03-JAN-14	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-DEC-13	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-DEC-13	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-DEC-13	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-DEC-13	Finding:	4.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-DEC-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	5.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	14-NOV-13	Finding:	1.1
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	0.69
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	0.34
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	9000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	6.1e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	9.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	14-NOV-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-NOV-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	530.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	73.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-NOV-13	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-NOV-13	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	3.
Chemical:	MOLYDBENDUM	Report units:	UG/L

Dlr:	0.		
Sample date:	14-NOV-13	Finding:	8.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-NOV-13	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	1.4
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	0.12
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	7.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-13	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-OCT-13	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-OCT-13	Finding:	9.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-SEP-13	Finding:	9.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-SEP-13	Finding:	4.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-SEP-13	Finding:	7.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-SEP-13	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-SEP-13	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-JUL-13	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-JUL-13	Finding:	10.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-13	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-13	Finding:	7.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-13	Finding:	8.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUN-13	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	9400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-APR-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-APR-13	Finding:	0.79
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	26-APR-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-APR-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-APR-13	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	26-APR-13	Finding:	7.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-APR-13	Finding:	9.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-APR-13	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	9.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-APR-13	Finding:	4.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	26-APR-13	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	26-APR-13	Finding:	45.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	26-APR-13	Finding:	15.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	26.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	26-APR-13	Finding:	510.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	72.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	9200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-JAN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	5.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	31-JAN-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-JAN-13	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	6.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	31-JAN-13	Finding:	9.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-JAN-13	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	31-JAN-13	Finding:	5.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	31-JAN-13	Finding:	19.
Chemical:	NICKEL	Report units:	UG/L
Dlr:	10.		
Sample date:	31-JAN-13	Finding:	0.44
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	31-JAN-13	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	31-JAN-13	Finding:	15.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-DEC-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-DEC-12	Finding:	5.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-DEC-12	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-DEC-12	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-DEC-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	13-DEC-12	Finding:	6.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-OCT-12	Finding:	7.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-OCT-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	2.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	13-SEP-12	Finding:	4.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-SEP-12	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	9.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-SEP-12	Finding:	7.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-SEP-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-AUG-12	Finding:	6.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUL-12	Finding:	6.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-12	Finding:	5.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-12	Finding:	8.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-APR-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-APR-12	Finding:	5.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-MAR-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAR-12	Finding:	6.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-MAR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-MAR-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-MAR-12	Finding:	8.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-FEB-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-FEB-12	Finding:	8.e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	16-FEB-12	Finding:	0.6
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	16-FEB-12	Finding:	6.3e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	9200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	16-FEB-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	0.33
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	0.72
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	3.
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	132.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	0.192
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	510.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	3.4
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	7.6e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	71.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	9.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	23.
Chemical:	SODIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	16-FEB-12	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	13.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	43.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	16-FEB-12	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	16-FEB-12	Finding:	2.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	16-FEB-12	Finding:	3.1
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	5.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	16-FEB-12	Finding:	7.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-FEB-12	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	1.2
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-FEB-12	Finding:	5.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-FEB-12	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	1.6
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	11-JAN-12	Finding:	7.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	11-JAN-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

E21
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CAPFAS000001329**

Well ID:	3310031-177	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 4R	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-177&store_num=		
GeoTracker Data:	Not Reported		

E22
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000006893**

Well ID:	3310031-177	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 4R	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-177&store_num=		
GeoTracker Data:	Not Reported		

23
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000140800**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14G001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19420101	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	115
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F24
ENE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000140751**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23R003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	627
Well Depth Units:	ft	Well Hole Depth:	627
Well Hole Depth Units:	ft		

F25
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00008476**

Well ID:	USGS-340456117154001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340456117154001	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-340456117154001&store_num=		
GeoTracker Data:	Not Reported		

G26
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140798**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14F00AS	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19460101	Well Depth:	288
Well Depth Units:	ft	Well Hole Depth:	322
Well Hole Depth Units:	ft		

H27
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW0000008870**

Well ID:	3310031-128	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 98-1	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-128&store_num=
GeoTracker Data: Not Reported

H28
SE **CA WELLS** **CAPFAS000000234**
1/4 - 1/2 Mile
Higher

Well ID:	3310031-128	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 98-1	GAMA PFAS Testing:	Yes

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-128&store_num=
GeoTracker Data: Not Reported

D29
SSE **FED USGS** **USGS40000140638**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23A005S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19510101	Well Depth:	704
Well Depth Units:	ft	Well Hole Depth:	710
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	4	Level reading date:	1991-06-14
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Level reading date:	1989-10-25	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1989-04-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1988-10-14	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.

D30
SSE **CA WELLS** **CAUSGSN00005877**
1/4 - 1/2 Mile
Higher

Well ID:	USGS-340433117154801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340433117154801	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-340433117154801&store_num=

GeoTracker Data: Not Reported

H31
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CAPFAS000001279**

Well ID:	3310031-154	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	TIPPECANOE WELL	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-154&store_num=		
GeoTracker Data:	Not Reported		

H32
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW0000009733**

Well ID:	3310031-154	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	TIPPECANOE WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-154&store_num=		
GeoTracker Data:	Not Reported		

D33
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CAPFAS000000071**

Well ID:	3310031-036	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 51-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-036&store_num=		
GeoTracker Data:	Not Reported		

D34
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000020818**

Well ID:	01S04W23A005S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23A005S	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=01S04W23A005S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D35
SE **CA WELLS** **CADDW0000020231**
1/4 - 1/2 Mile
Higher

Well ID:	3310031-036	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 51-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-036&store_num=		
GeoTracker Data:	Not Reported		

E36
SW **CA WELLS** **CAPFAS000000954**
1/4 - 1/2 Mile
Lower

Well ID:	3310031-167	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 07	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-167&store_num=		
GeoTracker Data:	Not Reported		

E37
SW **CA WELLS** **CADDW0000018162**
1/4 - 1/2 Mile
Lower

Well ID:	3310031-167	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 07	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-167&store_num=		
GeoTracker Data:	Not Reported		

38
SSW **CA WELLS** **CADWR0000031565**
1/4 - 1/2 Mile
Lower

Well ID:	01S04W23C002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23C002S	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=01S04W23C002S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I39
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00002270**

Well ID:	USGS-340506117161901	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340506117161901	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-340506117161901&store_num=		
GeoTracker Data:	Not Reported		

I40
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140790**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14F009S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19510101	Well Depth:	118
Well Depth Units:	ft	Well Hole Depth:	128
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-07-26
Feet below surface:	27.00	Feet to sea level:	Not Reported
Note:	Not Reported		

J41
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000015046**

Well ID:	3310031-078	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 02 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-078&store_num=		
GeoTracker Data:	Not Reported		

K42
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000018833**

Well ID:	3310031-080	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 04 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-080&store_num=		

GeoTracker Data: Not Reported

K43
WSW **FED USGS** **USGS40000140667**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23C003S	Type:	Well
Description:	NAWQA DATA ENTRY COM + VER 06/21/2000		
HUC:	18070203	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:	Cenozoic Erathem	Aquifer Type:	Unconfined single aquifer
Construction Date:	19520101	Well Depth:	750
Well Depth Units:	ft	Well Hole Depth:	750
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	2004-06-30
Feet below surface:	137.6	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2000-04-05	Feet below surface:	82
Feet to sea level:	Not Reported	Note:	Not Reported

G44
NNW **CA WELLS** **CADWR0000021826**
1/4 - 1/2 Mile
Lower

Well ID:	01S04W14F016S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14F016S	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=01S04W14F016S&store_num=		
GeoTracker Data:	Not Reported		

G45
NNW **CA WELLS** **CADWR0000028971**
1/4 - 1/2 Mile
Lower

Well ID:	01S04W14F006S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14F006S	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=01S04W14F006S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L46
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000017480**

Well ID:	01S04W14N009S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14N009S	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=01S04W14N009S&store_num=		
GeoTracker Data:	Not Reported		

L47
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000002873**

Well ID:	01S04W14N003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14N003S	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=01S04W14N003S&store_num=		
GeoTracker Data:	Not Reported		

I48
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000029361**

Well ID:	01S04W14F009S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14F009S	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=01S04W14F009S&store_num=		
GeoTracker Data:	Not Reported		

K49
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00009296**

Well ID:	USGS-340438117162301	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340438117162301	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-340438117162301&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M50
SSE
1/4 - 1/2 Mile
Higher | **CA WELLS** | **930**

Seq:	930	Prim sta c:	01S/04W-23A02 S
Frds no:	3310031027	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 26-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340429.8	Longitude:	1171554.5
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	23-FEB-18	Finding:	11.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.

Sample date:	23-FEB-18	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	23-FEB-18	Finding:	6.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	23-FEB-18	Finding:	6.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	25-JAN-18	Finding:	0.96
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	25-JAN-18	Finding:	0.18
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JAN-18	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	25-JAN-18	Finding:	0.62
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JAN-18	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	25-JAN-18	Finding:	6.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-NOV-17	Finding:	0.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	4.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	0.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-17	Finding:	0.39
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-17	Finding:	0.69
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-17	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-OCT-17	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-OCT-17	Finding:	0.89
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-17	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	59.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	07-SEP-17	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-SEP-17	Finding:	0.54
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-SEP-17	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-AUG-17	Finding:	9.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-AUG-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	21-JUL-17	Finding:	0.13
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUL-17	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-JUL-17	Finding:	32.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUL-17	Finding:	5.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-17	Finding:	31.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-JUL-17	Finding:	0.69
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-MAY-17	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-MAY-17	Finding:	21.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-MAY-17	Finding:	0.37
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-APR-17	Finding:	14.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	27-APR-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-17	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-APR-17	Finding:	0.87
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-APR-17	Finding:	19.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-APR-17	Finding:	0.36
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	27-APR-17	Finding:	7.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-NOV-16	Finding:	3.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-NOV-16	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-NOV-16	Finding:	0.41
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-16	Finding:	52.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-NOV-16	Finding:	0.81
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-16	Finding:	5.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-NOV-16	Finding:	5.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-16	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-SEP-16	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-SEP-16	Finding:	0.39
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-SEP-16	Finding:	35.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-SEP-16	Finding:	0.66
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-SEP-16	Finding:	0.56
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-SEP-16	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-AUG-16	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	09-AUG-16	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-AUG-16	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-AUG-16	Finding:	0.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-AUG-16	Finding:	1.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-AUG-16	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-AUG-16	Finding:	0.43
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-AUG-16	Finding:	33.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-JUL-16	Finding:	5.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-16	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	42.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-JUL-16	Finding:	4.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUL-16	Finding:	0.95
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUL-16	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUL-16	Finding:	0.46
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUN-16	Finding:	5.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	21-JUN-16	Finding:	34.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-JUN-16	Finding:	36.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUN-16	Finding:	1.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-16	Finding:	5.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-JUN-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUN-16	Finding:	0.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-FEB-16	Finding:	5.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-FEB-16	Finding:	45.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-FEB-16	Finding:	0.48
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-FEB-16	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-FEB-16	Finding:	0.56
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-FEB-16	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-FEB-16	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-DEC-15	Finding:	5.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-DEC-15	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-DEC-15	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	17-DEC-15	Finding:	0.65
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-DEC-15	Finding:	0.75
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-DEC-15	Finding:	35.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-DEC-15	Finding:	0.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-DEC-15	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-DEC-15	Finding:	35.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-OCT-15	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-OCT-15	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-OCT-15	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-OCT-15	Finding:	0.62
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-OCT-15	Finding:	44.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-OCT-15	Finding:	0.43
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-OCT-15	Finding:	34.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-SEP-15	Finding:	36.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-SEP-15	Finding:	0.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-SEP-15	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-SEP-15	Finding:	0.92
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-15	Finding:	6.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-SEP-15	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-15	Finding:	0.58
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-15	Finding:	47.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-15	Finding:	0.48
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-15	Finding:	43.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	10-JUL-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	3.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	140.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	0.55
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-JUN-15	Finding:	3.4
Chemical:	VANADIUM	Report units:	UG/L

Dlr:	3.		
Sample date:	03-JUN-15	Finding:	0.39
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-JUN-15	Finding:	0.98
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	550.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-15	Finding:	7.9e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-JUN-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	6700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUN-15	Finding:	6.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-JUN-15	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	110.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	350.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	03-JUN-15	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	840.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-NOV-14	Finding:	0.68
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-NOV-14	Finding:	0.7
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	0.51
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-NOV-14	Finding:	0.53
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-OCT-14	Finding:	0.46
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	0.63
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-OCT-14	Finding:	0.71
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	49.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-SEP-14	Finding:	0.64
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-SEP-14	Finding:	0.76
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-SEP-14	Finding:	38.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	18-SEP-14	Finding:	0.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	0.22
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.36
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-AUG-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-14	Finding:	0.53
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	0.92
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	0.54
Chemical:	CHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.3e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	950.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	02-JUL-14	Finding:	650.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.76
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	36.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	0.46
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-JUL-14	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	02-JUL-14	Finding:	0.56
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	190.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	4.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	390.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.71
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	02-JUL-14	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-14	Finding:	5900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUL-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-SEP-13	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-SEP-13	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-13	Finding:	0.83
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-13	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-SEP-13	Finding:	4.33
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-13	Finding:	33.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-SEP-13	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-AUG-13	Finding:	4.69
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-AUG-13	Finding:	0.91
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-AUG-13	Finding:	0.53
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-AUG-13	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	07-AUG-13	Finding:	34.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-JUL-13	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-JUL-13	Finding:	3.13
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUL-13	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-JUN-13	Finding:	3.62
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	39.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-JUN-13	Finding:	0.85
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAY-13	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-MAY-13	Finding:	1.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	920.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	220.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	260.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	400.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	24-MAY-13	Finding:	40.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	3.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	32.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	200.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-MAY-13	Finding:	0.55
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-MAY-13	Finding:	99.
Chemical:	NICKEL	Report units:	UG/L
Dlr:	10.		
Sample date:	24-MAY-13	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	24-MAY-13	Finding:	46.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-MAY-13	Finding:	0.78
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAY-13	Finding:	630.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAY-13	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	24-MAY-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	5100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	17-JAN-13	Finding:	940.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	4000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-JAN-13	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	420.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	130.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	3.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	210.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	17-JAN-13	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	17-JAN-13	Finding:	3.5
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	17-JAN-13	Finding:	44.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-JAN-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-JAN-13	Finding:	640.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	17-JAN-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	0.11
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-JAN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-12	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-12	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-OCT-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-SEP-12	Finding:	0.61
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-SEP-12	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-SEP-12	Finding:	34.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-SEP-12	Finding:	1.25
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-12	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-SEP-12	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-SEP-12	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-AUG-12	Finding:	2.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	23-AUG-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-AUG-12	Finding:	43.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-AUG-12	Finding:	4.58
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-AUG-12	Finding:	39.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-JUL-12	Finding:	34.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-JUL-12	Finding:	2.33
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JUL-12	Finding:	43.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-JUL-12	Finding:	0.85
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-12	Finding:	0.84
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-12	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUN-12	Finding:	2.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	25-MAY-12	Finding:	0.65
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-MAY-12	Finding:	4.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	25-MAY-12	Finding:	510.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	25-MAY-12	Finding:	1.7
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-MAY-12	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	25-MAY-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	8600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-MAY-12	Finding:	800.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	3.1
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	340.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	110.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	40.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	3.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-MAY-12	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-MAY-12	Finding:	1.38
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-MAY-12	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-MAY-12	Finding:	8.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-MAY-12	Finding:	12.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	24-MAY-12	Finding:	0.76
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAY-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAY-12	Finding:	1.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAR-12	Finding:	3.83
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-MAR-12	Finding:	0.75
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAR-12	Finding:	0.94
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAR-12	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-MAR-12	Finding:	43.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-FEB-12	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	02-FEB-12	Finding:	0.82
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-FEB-12	Finding:	0.97
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-FEB-12	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-FEB-12	Finding:	1.09
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-FEB-12	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-JAN-12	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-JAN-12	Finding:	5900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	5.2e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-JAN-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JAN-12	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	630.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	0.65
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	42.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	11-JAN-12	Finding:	3.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-JAN-12	Finding:	0.59
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JAN-12	Finding:	200.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	3.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	40.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	130.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	410.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	290.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	910.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	35.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-JAN-12	Finding:	5.16
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J51
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00002847**

Well ID:	USGS-340434117162101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340434117162101	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-340434117162101&store_num=		
GeoTracker Data:	Not Reported		

J52
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140649**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23C002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19310101	Well Depth:	1188
Well Depth Units:	ft	Well Hole Depth:	1188
Well Hole Depth Units:	ft		

N53
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000008631**

Well ID:	01S04W13N001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13N001S	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=01S04W13N001S&store_num=		
GeoTracker Data:	Not Reported		

I54
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140791**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14L001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19500101	Well Depth:	196
Well Depth Units:	ft	Well Hole Depth:	225
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-07-31
Feet below surface:	24.00	Feet to sea level:	Not Reported
Note:	Not Reported		

L55
WSW **FED USGS** **USGS40000140704**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14N009S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	817
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O56
SSE **CA WELLS** **CADDW0000012992**
1/4 - 1/2 Mile
Higher

Well ID:	3310031-027	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 26-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-027&store_num=		
GeoTracker Data:	Not Reported		

O57
SSE **CA WELLS** **CAPFAS000000127**
1/4 - 1/2 Mile
Higher

Well ID:	3310031-027	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 26-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-027&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

O58
SSE **FED USGS** **USGS40000140617**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23A002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	390
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

N59
ESE **FED USGS** **USGS40000140695**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13N001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19290101	Well Depth:	325
Well Depth Units:	ft	Well Hole Depth:	325
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	239	Level reading date:	1991-04-23
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Level reading date:	1990-11-13	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-04-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-10-14	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-09-19	Feet below surface:	153.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-08-15	Feet below surface:	150.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-07-18	Feet below surface:	149.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-06-20	Feet below surface:	145.50

Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-05-09	Feet below surface:	118.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-18	Feet below surface:	121.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-22	Feet below surface:	127.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-14	Feet below surface:	120.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-09	Feet below surface:	125.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-13	Feet below surface:	132.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-15	Feet below surface:	139.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-18	Feet below surface:	157.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-27	Feet below surface:	157.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-21	Feet below surface:	158.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-13	Feet below surface:	155.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-06	Feet below surface:	151.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-30	Feet below surface:	149.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-23	Feet below surface:	150.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-16	Feet below surface:	152.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-09	Feet below surface:	150.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-04	Feet below surface:	147.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-02	Feet below surface:	133.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-26	Feet below surface:	133.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-19	Feet below surface:	132.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-07-13	Feet below surface:	131.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-05	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-28	Feet below surface:	132.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-21	Feet below surface:	148.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-14	Feet below surface:	147.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-07	Feet below surface:	147.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-29	Feet below surface:	144.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-24	Feet below surface:	143.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-16	Feet below surface:	111.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-09	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-03	Feet below surface:	123.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-26	Feet below surface:	141.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-04-19	Feet below surface:	122.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-12	Feet below surface:	121.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-05	Feet below surface:	122.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-23	Feet below surface:	121.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-15	Feet below surface:	136.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-08	Feet below surface:	136.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-01	Feet below surface:	130.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-02-22	Feet below surface:	110.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-15	Feet below surface:	111.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-02-08	Feet below surface:	111.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-01	Feet below surface:	114.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-25	Feet below surface:	114.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-18	Feet below surface:	113.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-11	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-04	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-28	Feet below surface:	118.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-21	Feet below surface:	119.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-14	Feet below surface:	120.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-08	Feet below surface:	121.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-30	Feet below surface:	124.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-23	Feet below surface:	126.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-16	Feet below surface:	129.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-09	Feet below surface:	154.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-25	Feet below surface:	153.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-17	Feet below surface:	150.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-06	Feet below surface:	151.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-29	Feet below surface:	153.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-21	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-16	Feet below surface:	130.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-09	Feet below surface:	128.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-08-31	Feet below surface:	137.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-08-24	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-18	Feet below surface:	140.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-11	Feet below surface:	145.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-03	Feet below surface:	135.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-27	Feet below surface:	141.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-19	Feet below surface:	141.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-13	Feet below surface:	139.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-06	Feet below surface:	140.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-03-20	Feet below surface:	114.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-22	Feet below surface:	133.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-01	Feet below surface:	129.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-16	Feet below surface:	128.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-04-13	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-24	Feet below surface:	109.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-16	Feet below surface:	125.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-02-17	Feet below surface:	122.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-02-03	Feet below surface:	102.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-13	Feet below surface:	126.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-16	Feet below surface:	118.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-04	Feet below surface:	102.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-11-22	Feet below surface:	110.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-15	Feet below surface:	124.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-10-02	Feet below surface:	105.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-20	Feet below surface:	110.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-10	Feet below surface:	121.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-15	Feet below surface:	124.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-07	Feet below surface:	123.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-18	Feet below surface:	118.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-23	Feet below surface:	88.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-10	Feet below surface:	84.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-18	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-23	Feet below surface:	96.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-12	Feet below surface:	119.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-12-30	Feet below surface:	90.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-11	Feet below surface:	118.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-27	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-08	Feet below surface:	104.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-08-24	Feet below surface:	116.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-21	Feet below surface:	104.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04-10	Feet below surface:	103.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-30	Feet below surface:	73.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-03-08	Feet below surface:	63.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-22	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-16	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-15	Feet below surface:	117.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-01	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-17	Feet below surface:	115.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-03	Feet below surface:	114.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-20	Feet below surface:	112.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-05-06	Feet below surface:	109.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-04-22	Feet below surface:	110.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-04-08	Feet below surface:	108.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-03-18	Feet below surface:	112.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-06	Feet below surface:	105.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-11	Feet below surface:	110.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-02-06	Feet below surface:	108.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-01-19	Feet below surface:	112.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-12-31	Feet below surface:	83.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-13	Feet below surface:	109.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-12-03	Feet below surface:	108.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-19	Feet below surface:	106.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-02	Feet below surface:	107.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1960-10-18	Feet below surface:	104.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-10-09	Feet below surface:	101.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-13	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-06	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-13	Feet below surface:	94.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-30	Feet below surface:	94.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-14	Feet below surface:	92.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-02	Feet below surface:	82.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-18	Feet below surface:	82.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-04	Feet below surface:	81.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-20	Feet below surface:	98.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-13	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-07	Feet below surface:	94.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-12	Feet below surface:	48.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-05	Feet below surface:	35.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-27	Feet below surface:	36.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-06	Feet below surface:	38.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-09	Feet below surface:	64.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-12	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-12-02	Feet below surface:	108.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-23	Feet below surface:	79.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-11-07	Feet below surface:	112.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-23	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-12	Feet below surface:	77.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-03	Feet below surface:	66.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-27	Feet below surface:	95.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-22	Feet below surface:	97.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-16	Feet below surface:	55.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-13	Feet below surface:	73.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-07	Feet below surface:	72.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-01	Feet below surface:	71.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-22	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-14	Feet below surface:	102.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-11	Feet below surface:	76.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-04	Feet below surface:	72.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-29	Feet below surface:	71.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-20	Feet below surface:	71.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-13	Feet below surface:	71.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-06	Feet below surface:	103.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-30	Feet below surface:	109.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-23	Feet below surface:	103.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-16	Feet below surface:	102.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-06-28	Feet below surface:	68.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-21	Feet below surface:	74.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-14	Feet below surface:	69.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-07	Feet below surface:	96.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-31	Feet below surface:	67.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-24	Feet below surface:	96.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-17	Feet below surface:	97.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-10	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-03	Feet below surface:	60.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-26	Feet below surface:	58.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-19	Feet below surface:	40.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-12	Feet below surface:	33.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-05	Feet below surface:	34.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	37.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-22	Feet below surface:	55.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-15	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-08	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-01	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-22	Feet below surface:	65.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-15	Feet below surface:	59.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-08	Feet below surface:	63.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-12-23	Feet below surface:	77.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-14	Feet below surface:	81.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-07	Feet below surface:	85.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-30	Feet below surface:	78.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-23	Feet below surface:	73.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-16	Feet below surface:	61.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-09	Feet below surface:	65.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-02	Feet below surface:	68.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-26	Feet below surface:	104.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-10-19	Feet below surface:	100.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-10-05	Feet below surface:	103.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-27	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-21	Feet below surface:	103.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-11	Feet below surface:	103.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-04	Feet below surface:	102.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-23	Feet below surface:	102.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-09	Feet below surface:	103.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	102.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-18	Feet below surface:	103.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-06	Feet below surface:	98.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-15	Feet below surface:	68.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-06-01	Feet below surface:	99.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-06	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-12-07	Feet below surface:	103.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-15	Feet below surface:	110.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-16	Feet below surface:	109.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-19	Feet below surface:	111.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-18	Feet below surface:	110.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-19	Feet below surface:	72.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-23	Feet below surface:	119.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-29	Feet below surface:	96.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-28	Feet below surface:	102.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-31	Feet below surface:	108.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-20	Feet below surface:	112.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-14	Feet below surface:	101.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-17	Feet below surface:	104.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-12	Feet below surface:	105.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-01	Feet below surface:	107.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-01	Feet below surface:	101.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-15	Feet below surface:	102.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-28	Feet below surface:	101.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-04	Feet below surface:	82.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1954-10-16	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported

I60
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000006700**

State Well #:	01S04W14F009S	Station ID:	2494
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

P61
South
1/4 - 1/2 Mile
Higher

CA WELLS **CADPR0000003057**

Well ID:	84211	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84211	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84211&store_num=		
GeoTracker Data:	Not Reported		

N62
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00008035**

Well ID:	USGS-340441117153501	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340441117153501	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-340441117153501&store_num=		
GeoTracker Data:	Not Reported		

O63
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000021749**

Well ID:	01S04W23A002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23A002S	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=01S04W23A002S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

O64
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000012253**

Well ID:	01S04W23A099S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23A099S	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=01S04W23A099S&store_num=		
GeoTracker Data:	Not Reported		

N65
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW0000008501**

Well ID:	3310031-031	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 29-2	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-031&store_num=		
GeoTracker Data:	Not Reported		

N66
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAPFAS000001552**

Well ID:	3310031-031	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 29-2	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-031&store_num=		
GeoTracker Data:	Not Reported		

M67
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000140606**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23A001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19010101	Well Depth:	602
Well Depth Units:	ft	Well Hole Depth:	602
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M68
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00015583**

Well ID:	USGS-340426117155101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340426117155101	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-340426117155101&store_num=		
GeoTracker Data:	Not Reported		

Q69
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000140639**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23D00AS	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19500101	Well Depth:	345
Well Depth Units:	ft	Well Hole Depth:	654
Well Hole Depth Units:	ft		

Q70
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CAPFAS000000480**

Well ID:	3310031-178	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 5R	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-178&store_num=		
GeoTracker Data:	Not Reported		

Q71
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000016328**

Well ID:	3310031-178	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 5R	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-178&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

R72
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000140797**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14H001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19450101	Well Depth:	136
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

S73
NNW
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00012784**

Well ID:	USGS-340515117161101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340515117161101	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-340515117161101&store_num=		
GeoTracker Data:	Not Reported		

S74
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000140833**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14F008S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19510101	Well Depth:	124
Well Depth Units:	ft	Well Hole Depth:	125
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-08-09
Feet below surface:	32.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation

Database: **CA WELLS** EDR ID Number: **937**

N75
ESE
1/2 - 1 Mile
Higher

Seq:	937	Prim sta c:	01S/04W-23K02 S
Frds no:	3310031030	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 29-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340439.9	Longitude:	1171533.9
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	29-MAR-18	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	29-MAR-18	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	25-JAN-18	Finding:	2.5
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	25-JAN-18	Finding:	1.4
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	25-JAN-18	Finding:	4.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	25-JAN-18	Finding:	5.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	25-JAN-18	Finding:	0.44
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JAN-18	Finding:	0.35
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JAN-18	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	25-JAN-18	Finding:	19.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	13-DEC-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-NOV-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-OCT-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-AUG-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	4.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	20-JUL-17	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-MAY-17	Finding:	8.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-MAY-17	Finding:	8.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-17	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-17	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-SEP-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	970.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	8600.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	03-AUG-16	Finding:	590.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	4.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-AUG-16	Finding:	0.77
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-AUG-16	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	61.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	100.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	26.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	72.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	290.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	330.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-AUG-16	Finding:	10.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	03-AUG-16	Finding:	270.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-JUL-16	Finding:	9.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-JUL-16	Finding:	4.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-JUL-16	Finding:	0.22
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JUL-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-JUL-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-JUN-16	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-MAY-16	Finding:	9.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	20-MAY-16	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-APR-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-APR-16	Finding:	2.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-APR-16	Finding:	9.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-APR-16	Finding:	4.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-APR-16	Finding:	5.3
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	22-MAR-16	Finding:	9.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-FEB-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-FEB-16	Finding:	9.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	26-FEB-16	Finding:	4.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-FEB-16	Finding:	0.24
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-FEB-16	Finding:	6.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-FEB-16	Finding:	9.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-DEC-15	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-DEC-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-DEC-15	Finding:	8.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	29-OCT-15	Finding:	4.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-OCT-15	Finding:	7.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	29-OCT-15	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-OCT-15	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-OCT-15	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	29-OCT-15	Finding:	0.26
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-SEP-15	Finding:	4.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-SEP-15	Finding:	0.24
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-SEP-15	Finding:	5.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	30-SEP-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-15	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAY-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAY-15	Finding:	9.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	16-APR-15	Finding:	0.25
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-APR-15	Finding:	6.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-APR-15	Finding:	0.61
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	16-APR-15	Finding:	5.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-APR-15	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-APR-15	Finding:	9.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	16-APR-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	16-APR-15	Finding:	0.73
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	21-NOV-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-NOV-14	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-OCT-14	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-OCT-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-SEP-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-14	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-SEP-14	Finding:	0.21
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-14	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-14	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUL-14	Finding:	4.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JUL-14	Finding:	0.23
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	09-MAY-14	Finding:	9100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-14	Finding:	9.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-MAY-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	940.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	290.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	2.4
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	290.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	72.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	27.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	92.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	51.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-MAY-14	Finding:	0.75
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	09-MAY-14	Finding:	2.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-MAY-14	Finding:	5.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	09-MAY-14	Finding:	0.19
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-MAY-14	Finding:	560.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAY-14	Finding:	3800.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	04-OCT-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-OCT-13	Finding:	9.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-SEP-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-AUG-13	Finding:	260.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	9.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-AUG-13	Finding:	9800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-AUG-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	09-AUG-13	Finding:	5.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-AUG-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-AUG-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	570.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	4.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	09-AUG-13	Finding:	0.72
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-AUG-13	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-AUG-13	Finding:	58.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	95.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	26.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	69.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	320.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	950.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-AUG-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported

Dlr:	0.		
Sample date:	03-JUL-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-13	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUN-13	Finding:	3.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-JUN-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-13	Finding:	3.78
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JUN-13	Finding:	0.553
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAY-13	Finding:	9.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-MAY-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAY-13	Finding:	3.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-MAY-13	Finding:	1.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-APR-13	Finding:	1.55
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	3.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-APR-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-APR-13	Finding:	9.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	10-JAN-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-DEC-12	Finding:	4.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-DEC-12	Finding:	1.77
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-DEC-12	Finding:	4.55
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-OCT-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-SEP-12	Finding:	4.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-SEP-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	4.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	3.57
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-AUG-12	Finding:	1.52
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-JUL-12	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-JUL-12	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-JUL-12	Finding:	0.967
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	17-MAY-12	Finding:	4.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-MAY-12	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAY-12	Finding:	0.874
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-MAR-12	Finding:	9.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-MAR-12	Finding:	2.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-MAR-12	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-MAR-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-MAR-12	Finding:	8.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

T76
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006701**

State Well #:	01S04W14L001S	Station ID:	26950
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

U77
SSE
1/2 - 1 Mile
Higher

CA WELLS **935**

Seq:	935	Prim sta c:	01S/04W-23H01 S
Frds no:	3310031028	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 27-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340425.1	Longitude:	1171552.6
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported

Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	28-FEB-18	Finding:	8.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	28-FEB-18	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-FEB-18	Finding:	0.84
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-FEB-18	Finding:	29.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	25-JAN-18	Finding:	1.9
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-JAN-18	Finding:	6.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	25-JAN-18	Finding:	2.9
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-18	Finding:	3.6
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-JAN-18	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JAN-18	Finding:	8.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-JAN-18	Finding:	6.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JAN-18	Finding:	1.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-NOV-17	Finding:	1.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-NOV-17	Finding:	13.

Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	01-NOV-17	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-17	Finding:	0.15
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-17	Finding:	0.67
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-17	Finding:	6.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-17	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-17	Finding:	15.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	05-OCT-17	Finding:	1.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-17	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-SEP-17	Finding:	17.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	15-SEP-17	Finding:	0.99
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-SEP-17	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-AUG-17	Finding:	6.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-AUG-17	Finding:	19.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	09-AUG-17	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-17	Finding:	0.14
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	21-JUL-17	Finding:	6.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-JUL-17	Finding:	22.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	21-JUL-17	Finding:	21.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUL-17	Finding:	0.59
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUL-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-17	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-17	Finding:	0.34
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-MAY-17	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-MAY-17	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-APR-17	Finding:	1.4
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	27-APR-17	Finding:	2.4
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	27-APR-17	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-APR-17	Finding:	0.35
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-APR-17	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-17	Finding:	26.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	27-APR-17	Finding:	4.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L

Dlr:	0.		
Sample date:	27-APR-17	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	27-APR-17	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-APR-17	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-16	Finding:	19.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	14-NOV-16	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-16	Finding:	37.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-NOV-16	Finding:	7.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-NOV-16	Finding:	4.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-NOV-16	Finding:	0.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-16	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-NOV-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-SEP-16	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-SEP-16	Finding:	0.34
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-SEP-16	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	15-SEP-16	Finding:	15.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	15-SEP-16	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-SEP-16	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-SEP-16	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-AUG-16	Finding:	5.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-AUG-16	Finding:	21.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	03-AUG-16	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-AUG-16	Finding:	0.37
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	6.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JUL-16	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JUL-16	Finding:	6.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-JUL-16	Finding:	19.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	08-JUL-16	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-JUL-16	Finding:	0.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	08-JUL-16	Finding:	6.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-JUL-16	Finding:	2.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUN-16	Finding:	0.38
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUN-16	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUN-16	Finding:	24.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-JUN-16	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-16	Finding:	20.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	09-JUN-16	Finding:	6.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-APR-16	Finding:	4.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-APR-16	Finding:	2.52
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-APR-16	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-APR-16	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-APR-16	Finding:	27.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	21-APR-16	Finding:	7.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	21-APR-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-16	Finding:	6.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-MAR-16	Finding:	22.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	03-MAR-16	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAR-16	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-MAR-16	Finding:	0.36
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAR-16	Finding:	6.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-16	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-OCT-15	Finding:	0.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-OCT-15	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-OCT-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-OCT-15	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-OCT-15	Finding:	20.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	01-OCT-15	Finding:	6.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-OCT-15	Finding:	1.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	0.36
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	09-SEP-15	Finding:	23.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-SEP-15	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-15	Finding:	26.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	09-SEP-15	Finding:	1.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	09-SEP-15	Finding:	7.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-SEP-15	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-15	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUL-15	Finding:	14.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	10-JUL-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-15	Finding:	1.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-15	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-15	Finding:	0.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-15	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	39.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	03-JUN-15	Finding:	97.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-JUN-15	Finding:	3.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-JUN-15	Finding:	0.35
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-JUN-15	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	500.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-15	Finding:	30.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	03-JUN-15	Finding:	8.1e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-JUN-15	Finding:	1.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	8600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUN-15	Finding:	7.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-JUN-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	03-JUN-15	Finding:	3.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	50.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	20.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	95.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	320.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	800.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-JUN-15	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-NOV-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-NOV-14	Finding:	18.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	21-NOV-14	Finding:	6.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-NOV-14	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-NOV-14	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-NOV-14	Finding:	0.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	21-NOV-14	Finding:	0.68
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-OCT-14	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	09-OCT-14	Finding:	0.38
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-OCT-14	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	09-OCT-14	Finding:	0.68
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-OCT-14	Finding:	6.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	09-OCT-14	Finding:	12.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.

Sample date:	09-OCT-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	18-SEP-14	Finding:	6.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	18-SEP-14	Finding:	14.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.

Sample date:	18-SEP-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	18-SEP-14	Finding:	0.49
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	18-SEP-14	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	18-SEP-14	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	18-SEP-14	Finding:	0.36
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	21-AUG-14	Finding:	0.22
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	21-AUG-14	Finding:	0.48
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-AUG-14	Finding:	0.65
Chemical:	CHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-14	Finding:	18.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	21-AUG-14	Finding:	6.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUL-14	Finding:	7.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUL-14	Finding:	20.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	10-JUL-14	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-14	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-14	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-14	Finding:	0.46
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	0.34
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	58.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	09-MAY-14	Finding:	3.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	43.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-MAY-14	Finding:	0.61
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-MAY-14	Finding:	3.8
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	09-MAY-14	Finding:	0.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	19.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-MAY-14	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-MAY-14	Finding:	550.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAY-14	Finding:	3900.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	17.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	09-MAY-14	Finding:	5.2e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-MAY-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	8800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	09-MAY-14	Finding:	8.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-MAY-14	Finding:	0.32
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	100.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	340.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	2.4
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	300.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAY-14	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	09-MAY-14	Finding:	920.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-JUL-13	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JUL-13	Finding:	14.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	18-JUL-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUL-13	Finding:	0.52
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	18-JUL-13	Finding:	3.67
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	18-JUL-13	Finding:	6.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	18-JUL-13	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	20-JUN-13	Finding:	6.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	20-JUN-13	Finding:	11.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.

Sample date:	20-JUN-13	Finding:	3.21
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	20-JUN-13	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	20-JUN-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	24-MAY-13	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	24-MAY-13	Finding:	0.69
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-MAY-13	Finding:	640.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	24-MAY-13	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	24-MAY-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	24-MAY-13	Finding:	18.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.

Sample date:	24-MAY-13	Finding:	0.16
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	24-MAY-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported

Dlr:	0.		
Sample date:	24-MAY-13	Finding:	7600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-MAY-13	Finding:	7.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-MAY-13	Finding:	0.54
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-MAY-13	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-MAY-13	Finding:	44.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	4.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	57.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	28.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	130.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	440.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	320.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	260.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	950.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	24-MAY-13	Finding:	1.22
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	24-MAY-13	Finding:	3.5
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	10-JAN-13	Finding:	12.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	10-JAN-13	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JAN-13	Finding:	0.72
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JAN-13	Finding:	1.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JAN-13	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JAN-13	Finding:	1.14
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-13	Finding:	34.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-OCT-12	Finding:	0.96
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-12	Finding:	0.57
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-12	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-OCT-12	Finding:	13.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	05-OCT-12	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-12	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-SEP-12	Finding:	13.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	21-SEP-12	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	21-SEP-12	Finding:	0.53
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-SEP-12	Finding:	6.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-SEP-12	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-SEP-12	Finding:	3.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-SEP-12	Finding:	1.01
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-12	Finding:	14.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	14-SEP-12	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-SEP-12	Finding:	0.59
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-SEP-12	Finding:	1.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-AUG-12	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-AUG-12	Finding:	3.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	23-AUG-12	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-AUG-12	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-AUG-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUL-12	Finding:	12.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.

Sample date:	26-JUL-12	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUL-12	Finding:	0.51
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUL-12	Finding:	1.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUL-12	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-JUL-12	Finding:	6.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUN-12	Finding:	3.63
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUN-12	Finding:	6.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUN-12	Finding:	15.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	14-JUN-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUN-12	Finding:	1.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-MAY-12	Finding:	8900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-MAY-12	Finding:	7.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-MAY-12	Finding:	9.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-MAY-12	Finding:	17.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	11-MAY-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	11-MAY-12	Finding:	1.7
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	570.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	21.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-MAY-12	Finding:	4.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-MAY-12	Finding:	0.63
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-MAY-12	Finding:	130.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-MAY-12	Finding:	45.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	53.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	24.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	110.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	370.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	3.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	320.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	260.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	11-MAY-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	3.16
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	890.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-MAY-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

S78
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000013505**

Well ID:	01S04W14F008S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14F008S	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=01S04W14F008S&store_num=		
GeoTracker Data:	Not Reported		

79
SW
1/2 - 1 Mile
Lower

CA WELLS **932**

Seq:	932	Prim sta c:	01S/04W-23C02 S
Frds no:	3310031078	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	RAUB WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340429.2	Longitude:	1171621.6
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

R80
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006702**

State Well #:	01S04W13E002S	Station ID:	2355
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Q81
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140650**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23D002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19500101	Well Depth:	714
Well Depth Units:	ft	Well Hole Depth:	744
Well Hole Depth Units:	ft		

Q82
SW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00018556**

Well ID:	USGS-340434117162801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340434117162801	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-340434117162801&store_num=		
GeoTracker Data:	Not Reported		

Q83
WSW
1/2 - 1 Mile
Lower

CA WELLS **933**

Seq:	933	Prim sta c:	01S/04W-23C03 S
Frds no:	3310031080	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	RAUB WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340435.7	Longitude:	1171629.0
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported

Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	22-JAN-15	Finding:	3.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-JAN-15	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JAN-15	Finding:	5.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-JAN-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JAN-15	Finding:	0.92
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JAN-15	Finding:	0.53
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-NOV-14	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-NOV-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-OCT-14	Finding:	5.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-OCT-14	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-OCT-14	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-OCT-14	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-OCT-14	Finding:	3.

Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-14	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-AUG-14	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-AUG-14	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-14	Finding:	4.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	10-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUL-14	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-14	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-14	Finding:	5.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-14	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-MAY-14	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	16-MAY-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-14	Finding:	4.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-APR-14	Finding:	5.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	03-APR-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-14	Finding:	2.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-APR-14	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-APR-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	5.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-MAR-14	Finding:	5.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-MAR-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-MAR-14	Finding:	2.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	13-FEB-14	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-FEB-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-14	Finding:	0.75
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JAN-14	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-14	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-JAN-14	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	6.9
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	09-JAN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	5.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-DEC-13	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-DEC-13	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-DEC-13	Finding:	6.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-NOV-13	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-NOV-13	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-NOV-13	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-OCT-13	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-OCT-13	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-OCT-13	Finding:	0.71
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-OCT-13	Finding:	6.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-OCT-13	Finding:	6.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	19-SEP-13	Finding:	2.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	19-SEP-13	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-SEP-13	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-SEP-13	Finding:	5.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-SEP-13	Finding:	2.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-SEP-13	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-AUG-13	Finding:	0.51
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-AUG-13	Finding:	0.87
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-AUG-13	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-AUG-13	Finding:	6.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-AUG-13	Finding:	2.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-JUL-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	11-JUL-13	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	68.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	82.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	11-JUL-13	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	63.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	7.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	41.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-JUL-13	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUL-13	Finding:	5.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-JUL-13	Finding:	5.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-JUL-13	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	5.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JUL-13	Finding:	3.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-JUL-13	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-13	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	11-JUL-13	Finding:	0.72
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUL-13	Finding:	0.63
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-JUL-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	6000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-13	Finding:	7.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-JUL-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	8.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-JUN-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUN-13	Finding:	0.93
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-13	Finding:	3.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	06-JUN-13	Finding:	5.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-13	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	3.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	3.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L

Dlr:	1.e-002		
Sample date:	11-APR-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-APR-13	Finding:	9.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-MAR-13	Finding:	9.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-MAR-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAR-13	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-MAR-13	Finding:	4.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	15-MAR-13	Finding:	6.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-MAR-13	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-MAR-13	Finding:	6.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	15-MAR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-OCT-12	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-OCT-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-OCT-12	Finding:	3.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	16-OCT-12	Finding:	5.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	16-OCT-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-OCT-12	Finding:	6.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-SEP-12	Finding:	4.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	13-SEP-12	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	7.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-SEP-12	Finding:	3.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	8.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-AUG-12	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	0.83
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	3.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	02-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	6.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-AUG-12	Finding:	6.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-JUN-12	Finding:	4.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-JUN-12	Finding:	9.4
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	07-JUN-12	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-MAY-12	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-MAY-12	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-MAY-12	Finding:	3.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-MAY-12	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-MAY-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-MAY-12	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-MAY-12	Finding:	8.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-MAR-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-FEB-12	Finding:	4.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-FEB-12	Finding:	9.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-FEB-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JAN-12	Finding:	9.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-JAN-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JAN-12	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	12-JAN-12	Finding:	4.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-JAN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-12	Finding:	5.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-JAN-12	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-12	Finding:	6.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

84
WSW
1/2 - 1 Mile
Lower

CA WELLS 910

Seq:	910	Prim sta c:	01S/04W-14N09 S
Frds no:	3310031081	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	RAUB WELL 05	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340438.5	Longitude:	1171631.1
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	19-MAR-15	Finding:	37.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	19-MAR-15	Finding:	0.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-15	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-15	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-MAR-15	Finding:	7.1

Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-15	Finding:	37.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-14	Finding:	7.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-14	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-14	Finding:	34.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-14	Finding:	0.56
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	0.35
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-MAY-14	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-MAY-14	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-MAY-14	Finding:	4.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-MAY-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-14	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-14	Finding:	0.99
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-14	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-APR-14	Finding:	9.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	14-MAR-14	Finding:	3.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-MAR-14	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-MAR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-FEB-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	9.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-JAN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-JAN-14	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-DEC-13	Finding:	4.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-DEC-13	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-DEC-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-NOV-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-NOV-13	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	21-NOV-13	Finding:	4.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-NOV-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-OCT-13	Finding:	5.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	22.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-OCT-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	5.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	37.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-SEP-13	Finding:	7.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-13	Finding:	2000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-AUG-13	Finding:	190.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-AUG-13	Finding:	9.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	21-AUG-13	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	9.9e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	16-AUG-13	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	550.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-AUG-13	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-AUG-13	Finding:	4.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	16-AUG-13	Finding:	120.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	16-AUG-13	Finding:	0.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	16-AUG-13	Finding:	34.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	370.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	16-AUG-13	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	800.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	16-AUG-13	Finding:	2.96
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-AUG-13	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	3.52
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-13	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-13	Finding:	9.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUN-13	Finding:	3.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-APR-13	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	19.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	15-MAR-13	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-MAR-13	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-MAR-13	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-MAR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-NOV-12	Finding:	9.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-NOV-12	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-NOV-12	Finding:	14.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-NOV-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-NOV-12	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-12	Finding:	0.51
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-OCT-12	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-OCT-12	Finding:	21.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	4.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	13-SEP-12	Finding:	1.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	3.81
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-12	Finding:	3.95
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-12	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-MAY-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-MAY-12	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-MAY-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-MAY-12	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-APR-12	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-APR-12	Finding:	16.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-APR-12	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-APR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAR-12	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-MAR-12	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-MAR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	16.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-FEB-12	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	16-FEB-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-FEB-12	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-12	Finding:	16.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-JAN-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

85
South
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000015965**

Well ID:	3310031-108	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	THORNE 06 - AGRICULTURAL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-108&store_num=		
GeoTracker Data:	Not Reported		

86
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006718**

State Well #:	01S04W14F008S	Station ID:	26949
Well Name:	Not Reported	Basin Name:	San Bernardino

Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

U87
SSE **FED USGS** **USGS40000140579**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23H001S	Type:	Well
Description:	NAWQA DATA ENTRY COM + VER 06/21/2000 SNHAMLIN		
HUC:	18070203	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:	Cenozoic Erathem	Aquifer Type:	Unconfined single aquifer
Construction Date:	Not Reported	Well Depth:	396
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	2004-04-27
Feet below surface:	102.6	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2000-04-26	Feet below surface:	67
Feet to sea level:	Not Reported	Note:	Not Reported

U88
SSE **CA WELLS** **CAUSGSN00000208**
1/2 - 1 Mile
Higher

Well ID:	USGS-340423117155201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340423117155201	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-340423117155201&store_num=		
GeoTracker Data:	Not Reported		

V89
NW **FED USGS** **USGS40000140821**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14F004S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	80
Well Depth Units:	ft	Well Hole Depth:	80
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1953
Feet below surface:	25.00	Feet to sea level:	Not Reported
Note:	Not Reported		

P90
South
1/2 - 1 Mile
Higher

CA WELLS **924**

Seq:	924	Prim sta c:	01S/04W-22G18 S
Frds no:	3310031108	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	THORNE 06 - AGRICULTURAL	Station ty:	WELL/AMBNT
Latitude:	340422.9	Longitude:	1171601.2
Precision:	1	Status:	AG
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

W91
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000140723**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13N005S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19560101	Well Depth:	1104
Well Depth Units:	ft	Well Hole Depth:	1126
Well Hole Depth Units:	ft		

U92
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000010686**

Well ID:	3310031-028	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 27-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-028&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

U93
SSE
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000687**

Well ID:	3310031-028	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 27-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-028&store_num=		
GeoTracker Data:	Not Reported		

W94
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00016647**

Well ID:	USGS-340448117152801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340448117152801	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-340448117152801&store_num=		
GeoTracker Data:	Not Reported		

X95
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000007822**

Well ID:	3310031-077	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 06	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-077&store_num=		
GeoTracker Data:	Not Reported		

X96
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAPFAS000000627**

Well ID:	3310031-077	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 06	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-077&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q97
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000037884**

Well ID:	01S04W23D003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23D003S	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=01S04W23D003S&store_num=		
GeoTracker Data:	Not Reported		

Q98
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000031933**

Well ID:	01S04W23D002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23D002S	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=01S04W23D002S&store_num=		
GeoTracker Data:	Not Reported		

X99
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000008767**

Well ID:	3310031-081	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 05 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-081&store_num=		
GeoTracker Data:	Not Reported		

X100
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000009474**

Well ID:	3310031-115	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 08	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-115&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

X101
West
1/2 - 1 Mile
Lower

CA WELLS **CAPFAS000000849**

Well ID:	3310031-115	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RAUB WELL 08	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-115&store_num=		
GeoTracker Data:	Not Reported		

W102
East
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000011501**

Well ID:	3310031-111	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 92-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-111&store_num=		
GeoTracker Data:	Not Reported		

W103
East
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000019**

Well ID:	3310031-111	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 92-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-111&store_num=		
GeoTracker Data:	Not Reported		

T104
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000009005**

Well ID:	01S04W14E007S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14E007S	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=01S04W14E007S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W105
East
1/2 - 1 Mile
Higher | **CA WELLS** | **902**

Seq:	902	Prim sta c:	01S/04W-13N07 S
Frds no:	3310031111	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 92-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340448.5	Longitude:	1171527.8
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	01-MAR-18	Finding:	4.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-FEB-18	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-18	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-JAN-18	Finding:	9.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-JAN-18	Finding:	0.46
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-18	Finding:	0.72
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-18	Finding:	0.93
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-DEC-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-NOV-17	Finding:	4.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-OCT-17	Finding:	0.76
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-OCT-17	Finding:	2.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	18-OCT-17	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-SEP-17	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-17	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-17	Finding:	0.95
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUL-17	Finding:	2.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	17-MAY-17	Finding:	2.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-MAY-17	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAY-17	Finding:	0.96
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-APR-17	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-FEB-17	Finding:	4.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	0.74
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-17	Finding:	9.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	20-OCT-16	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-OCT-16	Finding:	2.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	20-OCT-16	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	20-OCT-16	Finding:	5.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-16	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-OCT-16	Finding:	1.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-OCT-16	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-OCT-16	Finding:	8.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	15-SEP-16	Finding:	5.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-SEP-16	Finding:	0.97
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUL-16	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUL-16	Finding:	5.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-JUL-16	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	14-JUL-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	5.4
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-JUN-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	0.82
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-JUN-16	Finding:	2.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	15-JUN-16	Finding:	6.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	15-JUN-16	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	15-JUN-16	Finding:	14.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	37.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	6.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	46.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	140.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	15-JUN-16	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	440.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	15-JUN-16	Finding:	32.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	13-APR-16	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-APR-16	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-APR-16	Finding:	5.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-APR-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAR-16	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-16	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAR-16	Finding:	2.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-JAN-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JAN-16	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-JAN-16	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	07-JAN-16	Finding:	5.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-DEC-15	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-DEC-15	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-DEC-15	Finding:	2.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-DEC-15	Finding:	5.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-OCT-15	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-OCT-15	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-15	Finding:	3.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-OCT-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	2.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	17-SEP-15	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-SEP-15	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-JUL-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-JUL-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JUL-15	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JUL-15	Finding:	6.6
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	04-JUN-15	Finding:	2.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-JUN-15	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-APR-15	Finding:	3.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-MAR-15	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-MAR-15	Finding:	2.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-JAN-15	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-JAN-15	Finding:	2.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-JAN-15	Finding:	0.98
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JAN-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	5.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	08-JAN-15	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-JAN-15	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-14	Finding:	4.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-DEC-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-DEC-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-14	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-DEC-14	Finding:	2.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	30-DEC-14	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-SEP-14	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-SEP-14	Finding:	2.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-14	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-14	Finding:	2.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-JUL-14	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	10-JUL-14	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	9.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-APR-14	Finding:	4.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-APR-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-MAR-14	Finding:	2.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-MAR-14	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-14	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JAN-14	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-JAN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	8.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-DEC-13	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-DEC-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-DEC-13	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-DEC-13	Finding:	3.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-DEC-13	Finding:	5.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-DEC-13	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-SEP-13	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	2.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	05-SEP-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-13	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	06-JUN-13	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-13	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUN-13	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	06-JUN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	4500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	06-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	7.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-13	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	5.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-JUN-13	Finding:	0.76
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-JUN-13	Finding:	30.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-JUN-13	Finding:	13.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	5.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	41.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.3
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	06-JUN-13	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	410.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	06-JUN-13	Finding:	6.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	04-APR-13	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-APR-13	Finding:	2.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-APR-13	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-13	Finding:	6.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-FEB-13	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-13	Finding:	6.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-FEB-13	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-13	Finding:	3.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-JAN-13	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-DEC-12	Finding:	3.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	13-DEC-12	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	13-SEP-12	Finding:	1.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	13-SEP-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-SEP-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	3.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	26-JUL-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JUL-12	Finding:	6.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-JUL-12	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JUL-12	Finding:	4.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-JUN-12	Finding:	4.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-JUN-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUN-12	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-MAR-12	Finding:	5.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-MAR-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-MAR-12	Finding:	4.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	01-MAR-12	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAR-12	Finding:	3.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	02-FEB-12	Finding:	4.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-FEB-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-FEB-12	Finding:	6.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-FEB-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	4.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-JAN-12	Finding:	2.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

X106
WSW
1/2 - 1 Mile
Lower

CA WELLS 908

Seq:	908	Prim sta c:	01S/04W-14N01 S
Frds no:	3310031077	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	RAUB WELL 06	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340442.8	Longitude:	1171635.2
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	20-JUL-17	Finding:	2.

Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	0.54
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-APR-17	Finding:	2.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-APR-17	Finding:	0.52
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-17	Finding:	2.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-FEB-17	Finding:	0.66
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-OCT-16	Finding:	2.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-OCT-16	Finding:	0.59
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-OCT-16	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	29-SEP-16	Finding:	1.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-SEP-16	Finding:	7.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	29-SEP-16	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-SEP-16	Finding:	2.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	3.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	44.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	24-JUN-16	Finding:	47.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-JUN-16	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	0.86
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	2.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JUN-16	Finding:	37.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	2.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JUN-16	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	420.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	24-JUN-16	Finding:	2.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-APR-16	Finding:	2.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAR-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAR-16	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	17-MAR-16	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-DEC-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-DEC-15	Finding:	3.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-DEC-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-SEP-15	Finding:	4.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	24-SEP-15	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-SEP-15	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-SEP-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	2000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUN-15	Finding:	2100.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	6.2e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	12-JUN-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	9.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUN-15	Finding:	0.82
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	12-JUN-15	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	0.58
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-JUN-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	12-JUN-15	Finding:	420.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	37.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	3.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	44.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	15.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	50.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-JUN-15	Finding:	0.81
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-JUN-15	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	12-JUN-15	Finding:	140.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	12-JUN-15	Finding:	8.7
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	12-JUN-15	Finding:	5.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-JUN-15	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUN-15	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-15	Finding:	8.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-15	Finding:	0.59
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-MAR-15	Finding:	4.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-MAR-15	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-DEC-14	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-DEC-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-DEC-14	Finding:	4.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	31-DEC-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	3.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	18-SEP-14	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	3.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	18-SEP-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	420.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	37.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	3.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	47.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	1.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-JUN-14	Finding:	0.88
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-JUN-14	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	06-JUN-14	Finding:	170.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-JUN-14	Finding:	8.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	06-JUN-14	Finding:	3.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-JUN-14	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	2.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-14	Finding:	0.64
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-14	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	0.72
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	9.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUN-14	Finding:	2300.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	6.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	06-JUN-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-14	Finding:	2000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JUN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-MAR-14	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	14-MAR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-MAR-14	Finding:	2.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-DEC-13	Finding:	2.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-DEC-13	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-DEC-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-OCT-13	Finding:	9.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-SEP-13	Finding:	3.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-SEP-13	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-SEP-13	Finding:	5.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-JUN-13	Finding:	48.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	42.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-JUN-13	Finding:	0.86
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-JUN-13	Finding:	5.2
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	06-JUN-13	Finding:	140.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-JUN-13	Finding:	8.5
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	06-JUN-13	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-13	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	9.9e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	06-JUN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	3.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	36.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	100.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	2.2
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	06-JUN-13	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-13	Finding:	410.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	3.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-SEP-12	Finding:	2.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	22-JUN-12	Finding:	3.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-JUN-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUN-12	Finding:	2.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-JUN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-MAR-12	Finding:	2.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-MAR-12	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-MAR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	3.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-FEB-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	03-FEB-12	Finding:	3.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-FEB-12	Finding:	290.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	0.61
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-FEB-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	2400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	7.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-FEB-12	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-12	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-FEB-12	Finding:	0.83
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-FEB-12	Finding:	49.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-FEB-12	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	48.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	03-FEB-12	Finding:	4.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	39.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-12	Finding:	420.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

W107
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000140720**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13N002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	1929	Well Depth:	286
Well Depth Units:	ft	Well Hole Depth:	297
Well Hole Depth Units:	ft		

108
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140605**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	675

Well Depth Units:	ft	Well Hole Depth:	675
Well Hole Depth Units:	ft		

Y109
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00004483**

Well ID:	USGS-340507117153301	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340507117153301	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-340507117153301&store_num=		
GeoTracker Data:	Not Reported		

W110
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00008036**

Well ID:	USGS-340447117152701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340447117152701	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-340447117152701&store_num=		
GeoTracker Data:	Not Reported		

Y111
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140796**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13E002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19040101	Well Depth:	284
Well Depth Units:	ft	Well Hole Depth:	300
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1945-01-05
Feet below surface:	12.40	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1939-08-22	Feet below surface:	14.30
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Y112
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000024908**

Well ID:	01S04W13E002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13E002S	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=01S04W13E002S&store_num=		
GeoTracker Data:	Not Reported		

W113
East
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000021590**

Well ID:	3310031-032	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 29-3	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-032&store_num=		
GeoTracker Data:	Not Reported		

W114
East
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000033**

Well ID:	3310031-032	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 29-3	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-032&store_num=		
GeoTracker Data:	Not Reported		

T115
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140802**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14E009S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
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:	20030303	Well Depth:	810
Well Depth Units:	ft	Well Hole Depth:	818
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	18	Level reading date:	2005-01-27
Feet below surface:	101.52	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2005-01-06	Feet below surface:	113.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-11-22	Feet below surface:	115.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-10-23	Feet below surface:	113.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-15	Feet below surface:	142.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-08-11	Feet below surface:	149.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-16	Feet below surface:	148.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-16	Feet below surface:	139.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-05-12	Feet below surface:	135.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-22	Feet below surface:	98.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-08	Feet below surface:	107.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-23	Feet below surface:	121.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-03	Feet below surface:	83.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-20	Feet below surface:	103.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-05	Feet below surface:	101.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	100.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-12-16	Feet below surface:	106.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	107.39
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T116
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140801**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14E008S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
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:	20030210	Well Depth:	1165
Well Depth Units:	ft	Well Hole Depth:	1506
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	18	Level reading date:	2005-01-27
Feet below surface:	108.24	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2005-01-06	Feet below surface:	115.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-11-22	Feet below surface:	130.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-10-23	Feet below surface:	123.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-15	Feet below surface:	168.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-08-11	Feet below surface:	167.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-16	Feet below surface:	166.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-16	Feet below surface:	156.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-05-12	Feet below surface:	152.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-22	Feet below surface:	116.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-08	Feet below surface:	124.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-23	Feet below surface:	127.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-03	Feet below surface:	94.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-20	Feet below surface:	114.59
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2004-02-05	Feet below surface:	110.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	111.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-12-16	Feet below surface:	120.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	127.08
Feet to sea level:	Not Reported	Note:	Not Reported

T117
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140805**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14E012S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
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:	20030303	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	818
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	19	Level reading date:	2005-01-27
Feet below surface:	80.77	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2005-01-06	Feet below surface:	81.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-12-09	Feet below surface:	81.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-11-22	Feet below surface:	81.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-10-23	Feet below surface:	80.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-15	Feet below surface:	78.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-08-11	Feet below surface:	76.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-16	Feet below surface:	74.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-16	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-05-12	Feet below surface:	70.87
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2004-04-22	Feet below surface:	69.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-08	Feet below surface:	69.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-23	Feet below surface:	69.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-03	Feet below surface:	68.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-20	Feet below surface:	69.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-05	Feet below surface:	69.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	69.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-12-16	Feet below surface:	70.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	70.28
Feet to sea level:	Not Reported	Note:	Not Reported

T118
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140806**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14E013S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
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:	20030303	Well Depth:	55
Well Depth Units:	ft	Well Hole Depth:	818
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	18	Level reading date:	2005-01-27
Feet below surface:	46.25	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2005-01-06	Feet below surface:	46.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-11-22	Feet below surface:	46.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-10-23	Feet below surface:	46.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-15	Feet below surface:	46.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2004-08-11	Feet below surface:	46.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-16	Feet below surface:	46.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-16	Feet below surface:	46.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-05-12	Feet below surface:	46.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-22	Feet below surface:	46.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-08	Feet below surface:	46.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-23	Feet below surface:	46.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-03	Feet below surface:	46.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-20	Feet below surface:	46.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-05	Feet below surface:	46.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	46.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-12-16	Feet below surface:	46.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

T119
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140803**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14E010S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
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:	20030303	Well Depth:	480
Well Depth Units:	ft	Well Hole Depth:	818
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	18	Level reading date:	2005-01-27
Feet below surface:	89.93	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2005-01-06	Feet below surface:	96.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-11-22	Feet below surface:	99.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-10-23	Feet below surface:	98.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-15	Feet below surface:	115.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-08-11	Feet below surface:	117.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-16	Feet below surface:	116.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-16	Feet below surface:	110.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-05-12	Feet below surface:	106.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-22	Feet below surface:	84.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-08	Feet below surface:	87.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-23	Feet below surface:	95.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-03	Feet below surface:	74.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-20	Feet below surface:	87.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-05	Feet below surface:	86.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-12-16	Feet below surface:	89.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	89.43
Feet to sea level:	Not Reported	Note:	Not Reported

T120
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140804**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14E011S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
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:	20030303	Well Depth:	250
Well Depth Units:	ft	Well Hole Depth:	818
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	18	Level reading date:	2005-01-27
Feet below surface:	81.69	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2005-01-06	Feet below surface:	83.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-11-22	Feet below surface:	84.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-10-23	Feet below surface:	84.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-15	Feet below surface:	86.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-08-11	Feet below surface:	84.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-16	Feet below surface:	82.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-16	Feet below surface:	79.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-05-12	Feet below surface:	76.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-22	Feet below surface:	72.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-08	Feet below surface:	72.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-23	Feet below surface:	73.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-03	Feet below surface:	69.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-20	Feet below surface:	72.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-02-05	Feet below surface:	72.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	72.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-12-16	Feet below surface:	73.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	73.96
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

V121
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006715**

State Well #:	01S04W14F004S	Station ID:	2493
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

T122
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006706**

State Well #:	01S04W14E010S	Station ID:	38782
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

T123
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006705**

State Well #:	01S04W14E009S	Station ID:	25882
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

T124
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006704**

State Well #:	01S04W14E008S	Station ID:	25881
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

T125
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006709**

State Well #:	01S04W14E013S	Station ID:	25884
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T126
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006708**

State Well #:	01S04W14E012S	Station ID:	38783
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

T127
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006707**

State Well #:	01S04W14E011S	Station ID:	25883
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Z128
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000001434**

Well ID:	01S04W13N004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13N004S	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=01S04W13N004S&store_num=		
GeoTracker Data:	Not Reported		

Z129
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000031395**

Well ID:	01S04W13N002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13N002S	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=01S04W13N002S&store_num=		
GeoTracker Data:	Not Reported		

Z130
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000027775**

Well ID:	01S04W13N005S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13N005S	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=01S04W13N005S&store_num=
GeoTracker Data: Not Reported

Z131
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000028529**

Well ID: 01S04W13N006S Well Type: UNK
Source: Department of Water Resources
Other Name: 01S04W13N006S 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=01S04W13N006S&store_num=
GeoTracker Data: Not Reported

AA132
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000037718**

Well ID: 01S04W23G003 Well Type: UNK
Source: Department of Water Resources
Other Name: 01S04W23G003 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=01S04W23G003&store_num=
GeoTracker Data: Not Reported

133
West
1/2 - 1 Mile
Lower

Site ID: 083601117T
Groundwater Flow: WSW
Shallow Water Depth: 25 ft
Deep Water Depth: Not Reported
Average Water Depth: Not Reported
Date: 10/05/1998

AQUIFLOW **50208**

AA134
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000001813**

Well ID: 01S04W23G001S Well Type: UNK
Source: Department of Water Resources
Other Name: 01S04W23G001S 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=01S04W23G001S&store_num=
GeoTracker Data: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AA135
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000140554**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23G001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19000101	Well Depth:	576
Well Depth Units:	ft	Well Hole Depth:	576
Well Hole Depth Units:	ft		

136
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000140854**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14C003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19130101	Well Depth:	450
Well Depth Units:	ft	Well Hole Depth:	450
Well Hole Depth Units:	ft		

AA137
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00015734**

Well ID:	USGS-340418117155501	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340418117155501	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-340418117155501&store_num=		
GeoTracker Data:	Not Reported		

138
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140626**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23D004S	Type:	Well

Description:	Not Reported	HUC:	18070203
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:	70
Well Depth Units:	ft	Well Hole Depth:	70
Well Hole Depth Units:	ft		

AB139
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000008171**

Well ID:	01S04W14B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14B001S	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=01S04W14B001S&store_num=		
GeoTracker Data:	Not Reported		

AB140
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000005718**

Well ID:	01S04W14B002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W14B002S	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=01S04W14B002S&store_num=		
GeoTracker Data:	Not Reported		

AA141
South
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000009805**

Well ID:	3310031-038	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 66-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-038&store_num=		
GeoTracker Data:	Not Reported		

AA142
South
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000001365**

Well ID:	3310031-038	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 66-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-038&store_num=		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GeoTracker Data: Not Reported

AA143
South
1/2 - 1 Mile
Higher

CA WELLS **900**

Seq:	900	Prim sta c:	01S/04W-13N01 S
Frds no:	3310031031	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 29-2	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340417.9	Longitude:	1171556.0
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	01-MAR-18	Finding:	5.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	15-FEB-18	Finding:	5.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	19-JAN-18	Finding:	319.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	19-JAN-18	Finding:	328.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	19-JAN-18	Finding:	660.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	19-JAN-18	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	19-JAN-18	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	19-JAN-18	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	19-JAN-18	Finding:	5.2
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	19-JAN-18	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	89.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	95.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-JAN-18	Finding:	0.53
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-JAN-18	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	19-JAN-18	Finding:	3.6
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	3.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	19-JAN-18	Finding:	1.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	6.3
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	19-JAN-18	Finding:	0.59
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	19-JAN-18	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-JAN-18	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	5.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-18	Finding:	35.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	19-JAN-18	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	0.38
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	0.66
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	1.6
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	0.504
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JAN-18	Finding:	0.245
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.41
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.77
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	21-DEC-17	Finding:	1.4
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.175
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.453
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	320.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	333.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	21-DEC-17	Finding:	670.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	5.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-DEC-17	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	88.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	21-DEC-17	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	28.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	94.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-DEC-17	Finding:	0.54
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-DEC-17	Finding:	22.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-DEC-17	Finding:	3.2
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	21-DEC-17	Finding:	8.1e-003
Chemical:	LITHIUM	Report units:	UG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.97
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.56
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	20.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-DEC-17	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-DEC-17	Finding:	440.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	0.12
Chemical:	BROMIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	21-DEC-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-DEC-17	Finding:	5.6
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-DEC-17	Finding:	38.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	06-OCT-17	Finding:	6.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-17	Finding:	0.63
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-AUG-17	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	10-AUG-17	Finding:	3.5
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	3.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	10-AUG-17	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	10-AUG-17	Finding:	1.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	0.61
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-AUG-17	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-AUG-17	Finding:	460.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	10-AUG-17	Finding:	6.7e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	10-AUG-17	Finding:	0.13
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	6.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-17	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-AUG-17	Finding:	45.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	10-AUG-17	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	0.44
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	0.8
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	1.6
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	0.609
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	1.52
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	257.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	272.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	700.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported

Dlr:	0.		
Sample date:	10-AUG-17	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	6.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-17	Finding:	6.8e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	300.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	94.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	31.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	3.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-17	Finding:	2.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-MAR-17	Finding:	5.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	0.8
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	0.507
Chemical:	STRONTIUM - 90 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	292.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	08-FEB-17	Finding:	296.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	690.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	2.4
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	5.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	300.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	95.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	3.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	27.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-FEB-17	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-FEB-17	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L

Dlr:	1.		
Sample date:	08-FEB-17	Finding:	3.4
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	3.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	08-FEB-17	Finding:	0.37
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	7.4
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	08-FEB-17	Finding:	1.2
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	0.24
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-FEB-17	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-FEB-17	Finding:	450.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-FEB-17	Finding:	0.12
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	5.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	37.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		

Sample date:	08-FEB-17	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	0.49
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	0.99
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-17	Finding:	0.199
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-17	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-OCT-16	Finding:	5.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-16	Finding:	1.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-OCT-16	Finding:	2.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-OCT-16	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-OCT-16	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-SEP-16	Finding:	2.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-16	Finding:	1.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-16	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-SEP-16	Finding:	2.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	31-AUG-16	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	31-AUG-16	Finding:	0.12
Chemical:	BROMIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	31-AUG-16	Finding:	268.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-AUG-16	Finding:	282.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-AUG-16	Finding:	2.
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-AUG-16	Finding:	1.3
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-AUG-16	Finding:	3.1
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	31-AUG-16	Finding:	32.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	17-MAR-16	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAR-16	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-MAR-16	Finding:	4.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAR-16	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-MAR-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	0.59
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-FEB-16	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	24-FEB-16	Finding:	2.9
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	3.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		

Sample date:	24-FEB-16	Finding:	34.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	24-FEB-16	Finding:	0.41
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	7.2
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	24-FEB-16	Finding:	1.8
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-FEB-16	Finding:	3.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-FEB-16	Finding:	450.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	7.1e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	24-FEB-16	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	4.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-FEB-16	Finding:	26.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-FEB-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	0.25
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	0.75
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	24-FEB-16	Finding:	1.1
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-FEB-16	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	3.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	92.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	290.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-FEB-16	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	690.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	323.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	323.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	24-FEB-16	Finding:	312.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	312.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-FEB-16	Finding:	0.1
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JAN-16	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JAN-16	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-JAN-16	Finding:	0.39
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JAN-16	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	07-JAN-16	Finding:	1.7
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-DEC-15	Finding:	0.77
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	0.28
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	28.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	03-DEC-15	Finding:	4700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-DEC-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	03-DEC-15	Finding:	7.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-DEC-15	Finding:	4700.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-15	Finding:	296.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	311.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	690.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-DEC-15	Finding:	0.16
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	89.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	03-DEC-15	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	27.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	1.2
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-DEC-15	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-DEC-15	Finding:	3.1
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	34.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-DEC-15	Finding:	0.42
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	8.8
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	03-DEC-15	Finding:	1.8
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-DEC-15	Finding:	2.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-DEC-15	Finding:	470.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-DEC-15	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-OCT-15	Finding:	31.
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	23-OCT-15	Finding:	0.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-OCT-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-OCT-15	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-OCT-15	Finding:	2.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-SEP-15	Finding:	0.36
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-SEP-15	Finding:	4.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-SEP-15	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-SEP-15	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	5100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-AUG-15	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-AUG-15	Finding:	28.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	21-AUG-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	0.32
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	0.6
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	21-AUG-15	Finding:	1.5
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	0.311
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	319.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	340.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	670.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	5.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-AUG-15	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	84.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	27.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	21-AUG-15	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-AUG-15	Finding:	1.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-AUG-15	Finding:	3.1
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	3.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	21-AUG-15	Finding:	0.37
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	2.
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	0.14
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	0.32
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-AUG-15	Finding:	4.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-AUG-15	Finding:	450.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-AUG-15	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-15	Finding:	6.1e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	21-AUG-15	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	21-AUG-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	16.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	98.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	3.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	31.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-JUL-15	Finding:	0.62
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-JUL-15	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-JUL-15	Finding:	3.7
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	09-JUL-15	Finding:	32.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-JUL-15	Finding:	0.38
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	2.8
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-JUL-15	Finding:	8.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUL-15	Finding:	470.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	09-JUL-15	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	6.e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	09-JUL-15	Finding:	0.16
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-JUL-15	Finding:	0.15
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	6300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUL-15	Finding:	6.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-JUL-15	Finding:	40.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	09-JUL-15	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	0.4
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	0.87
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	1.8
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	0.505
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	332.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	343.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	09-JUL-15	Finding:	730.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	6.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUL-15	Finding:	310.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	32.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUN-15	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-APR-15	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-15	Finding:	1.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	23-APR-15	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-APR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-APR-15	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-15	Finding:	1.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	23-APR-15	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-APR-15	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	13-FEB-15	Finding:	0.127
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	1.6
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	310.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	317.
Chemical:	TRITIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	670.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	89.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	24.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	99.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	13-FEB-15	Finding:	0.43
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	13-FEB-15	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-15	Finding:	2.9
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	3.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	13-FEB-15	Finding:	3.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	9.6
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	13-FEB-15	Finding:	2.2
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-FEB-15	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-FEB-15	Finding:	7800.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	2.e-003
Chemical:	N-NITROSODIETHYLAMINE (NDEA)	Report units:	UG/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	5.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	13-FEB-15	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	13-FEB-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	5300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-15	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-FEB-15	Finding:	28.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	13-FEB-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	0.35
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	0.8
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-15	Finding:	34.
Chemical:	TRITIUM	Report units:	PCI/L
Dlr:	1000.		
Sample date:	09-JAN-15	Finding:	4.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-15	Finding:	7.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JAN-15	Finding:	8.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-JAN-15	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-DEC-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-14	Finding:	9.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	10-DEC-14	Finding:	10.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-DEC-14	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-DEC-14	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	6000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-NOV-14	Finding:	21.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	19-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	0.25
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	0.77
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	1.1
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	9.5e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-NOV-14	Finding:	3.e-003
Chemical:	N-NITROSODI-N-BUTYLAMINE (NDBA)	Report units:	UG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	19-NOV-14	Finding:	8.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-NOV-14	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-NOV-14	Finding:	0.15
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	1.7
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	7.8
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	19-NOV-14	Finding:	5.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	31.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	19-NOV-14	Finding:	2.8
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-NOV-14	Finding:	98.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-NOV-14	Finding:	120.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	0.186
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	680.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	19-NOV-14	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	290.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	92.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-14	Finding:	23.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-OCT-14	Finding:	4.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-14	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-OCT-14	Finding:	9.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-OCT-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-14	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-14	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-SEP-14	Finding:	9.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-SEP-14	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	19-SEP-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	28-AUG-14	Finding:	92.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	31.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	22.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	93.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	28-AUG-14	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	28-AUG-14	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	28-AUG-14	Finding:	2.8
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	3.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	28-AUG-14	Finding:	4.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	9.8
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	28-AUG-14	Finding:	1.5
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	0.13
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	28-AUG-14	Finding:	10.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-14	Finding:	450.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-AUG-14	Finding:	8.5e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	28-AUG-14	Finding:	9.4e-002
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	6000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-AUG-14	Finding:	8.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	28-AUG-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	0.34
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	0.7
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	1.
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	132.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	0.137
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	680.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

Dlr:	0.		
Sample date:	28-AUG-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	28-AUG-14	Finding:	290.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	8.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUL-14	Finding:	8.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-14	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-14	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	3.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	05-JUN-14	Finding:	0.97
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.5
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.36
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	21.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		

Sample date:	05-JUN-14	Finding:	7.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUN-14	Finding:	5700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.1
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	7.4e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-JUN-14	Finding:	6900.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	126.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.168
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	680.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	89.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	05-JUN-14	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	24.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	94.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-JUN-14	Finding:	0.59
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-JUN-14	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-JUN-14	Finding:	2.9
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	32.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JUN-14	Finding:	5.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	1.7
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.2
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.26
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-JUN-14	Finding:	9.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUN-14	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.96
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	05-JUN-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-14	Finding:	4.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-APR-14	Finding:	4.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-APR-14	Finding:	7.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-14	Finding:	6.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-MAR-14	Finding:	6.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAR-14	Finding:	24.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-MAR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-14	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	127.
Chemical:	TRITIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	0.278
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	660.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	13-FEB-14	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	88.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	24.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	92.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	13-FEB-14	Finding:	0.55
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	13-FEB-14	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-14	Finding:	2.6
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	4.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	1.7
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	0.16
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	0.32
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	13-FEB-14	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-FEB-14	Finding:	8.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-FEB-14	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-FEB-14	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	13-FEB-14	Finding:	0.1
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	5400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-14	Finding:	6.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-FEB-14	Finding:	25.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	13-FEB-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	0.41
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	0.61
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-14	Finding:	1.1
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JAN-14	Finding:	5.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	15-JAN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JAN-14	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-JAN-14	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-JAN-14	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-DEC-13	Finding:	5.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-DEC-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-DEC-13	Finding:	12.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-DEC-13	Finding:	6.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	19-DEC-13	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	1.
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	14-NOV-13	Finding:	86.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	96.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-NOV-13	Finding:	0.64
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-NOV-13	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	2.9
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	3.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	14-NOV-13	Finding:	4.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	7.8
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	14-NOV-13	Finding:	1.5
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	0.12
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-NOV-13	Finding:	9.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	14-NOV-13	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-NOV-13	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-NOV-13	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	5300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-13	Finding:	25.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	14-NOV-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	0.3
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	0.73
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-13	Finding:	660.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	6.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	12.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	11-OCT-13	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-OCT-13	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-SEP-13	Finding:	6.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	20-SEP-13	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-SEP-13	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-SEP-13	Finding:	5.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	6.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-SEP-13	Finding:	15.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-13	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-SEP-13	Finding:	6.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	15.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-13	Finding:	7.4
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	11-JUL-13	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUN-13	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUN-13	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUN-13	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUN-13	Finding:	30.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-APR-13	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-APR-13	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-APR-13	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-APR-13	Finding:	7.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JAN-13	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-13	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	10-JAN-13	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JAN-13	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JAN-13	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-DEC-12	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-DEC-12	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-DEC-12	Finding:	6.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-DEC-12	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-DEC-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-OCT-12	Finding:	15.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-OCT-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	7.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	27-SEP-12	Finding:	3.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-SEP-12	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	27-SEP-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-SEP-12	Finding:	5.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	27-SEP-12	Finding:	20.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUL-12	Finding:	3.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JUL-12	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-JUL-12	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUL-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUL-12	Finding:	6.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	26-JUL-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-12	Finding:	4.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-12	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-JUN-12	Finding:	16.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	7.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-JUN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	05-APR-12	Finding:	5.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-APR-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-APR-12	Finding:	6000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-12	Finding:	8.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-APR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	630.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-APR-12	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-APR-12	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	86.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	21.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	83.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	05-APR-12	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-APR-12	Finding:	4.
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	05-APR-12	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-APR-12	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-12	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-APR-12	Finding:	0.99
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAR-12	Finding:	7.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-MAR-12	Finding:	23.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAR-12	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-MAR-12	Finding:	4.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-MAR-12	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-MAR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	08-FEB-12	Finding:	22.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	83.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-FEB-12	Finding:	0.64
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-FEB-12	Finding:	1.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	08-FEB-12	Finding:	2.7
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	1.3
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	0.14
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-FEB-12	Finding:	27.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-FEB-12	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-FEB-12	Finding:	6.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-FEB-12	Finding:	0.1
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported

Dlr:	0.		
Sample date:	08-FEB-12	Finding:	6700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-12	Finding:	8.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-FEB-12	Finding:	24.
Chemical:	CHLORATE	Report units:	UG/L
Dlr:	20.		
Sample date:	08-FEB-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	0.32
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	0.81
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	1.2
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	85.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	640.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AC144
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140832**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13E008S	Type:	Well
Description:	Not Reported	HUC:	18070203
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		

AC145
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00005704**

Well ID:	USGS-340515117153401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340515117153401	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-340515117153401&store_num=		
GeoTracker Data:	Not Reported		

AA146
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000140544**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23G003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	808
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

147
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140640**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23D001S	Type:	Well

Description:	Not Reported	HUC:	18070203
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:	19410101	Well Depth:	125
Well Depth Units:	ft	Well Hole Depth:	125
Well Hole Depth Units:	ft		

AD148
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000140736**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13L002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	475
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AD149
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00000158**

Well ID:	USGS-340453117152001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340453117152001	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-340453117152001&store_num=		
GeoTracker Data:	Not Reported		

AD150
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000140740**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13L001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AD151
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00009752**

Well ID:	USGS-340454117152001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340454117152001	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-340454117152001&store_num=		
GeoTracker Data:	Not Reported		

AE152
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000008023**

Well ID:	01S04W22A005S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22A005S	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=01S04W22A005S&store_num=		
GeoTracker Data:	Not Reported		

153
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140584**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23E002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	554
Well Depth Units:	ft	Well Hole Depth:	554
Well Hole Depth Units:	ft		

AF154
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000004962**

Well ID:	01S04W13E001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13E001S	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=01S04W13E001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AF155
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000012317**

Well ID:	01S04W13E003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13E003S	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=01S04W13E003S&store_num=		
GeoTracker Data:	Not Reported		

AF156
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000019436**

Well ID:	01S04W13E004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13E004S	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=01S04W13E004S&store_num=		
GeoTracker Data:	Not Reported		

AG157
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000005151**

Well ID:	3600331-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WASHINGTON ST WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3600331-001&store_num=		
GeoTracker Data:	Not Reported		

AH158
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000026656**

Well ID:	01S04W13M002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13M002S	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=01S04W13M002S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AH159
ENE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000140782**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13M002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19300101	Well Depth:	1106
Well Depth Units:	ft	Well Hole Depth:	937
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	281	Level reading date:	1970-03-31
Feet below surface:	103.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1969-11-18	Feet below surface:	136.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1969-04-29	Feet below surface:	113.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-10	Feet below surface:	168.25
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1968-04-28	Feet below surface:	169.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-12-02	Feet below surface:	111.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-06	Feet below surface:	147.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-15	Feet below surface:	187.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-07-11	Feet below surface:	177.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-06-13	Feet below surface:	175.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-05-09	Feet below surface:	121.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-20	Feet below surface:	127.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-10	Feet below surface:	162.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-02-14	Feet below surface:	130.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-01-10	Feet below surface:	120.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-13	Feet below surface:	128.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-15	Feet below surface:	174.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-10-17	Feet below surface:	179.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-27	Feet below surface:	150.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-21	Feet below surface:	183.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-13	Feet below surface:	181.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-06	Feet below surface:	181.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-30	Feet below surface:	180.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-23	Feet below surface:	181.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-16	Feet below surface:	180.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-11	Feet below surface:	197.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-02	Feet below surface:	186.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-26	Feet below surface:	188.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-19	Feet below surface:	185.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-13	Feet below surface:	180.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-04	Feet below surface:	182.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-27	Feet below surface:	176.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-21	Feet below surface:	175.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-14	Feet below surface:	176.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-07	Feet below surface:	179.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1966-06-01	Feet below surface:	168.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-24	Feet below surface:	167.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-17	Feet below surface:	162.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-10	Feet below surface:	161.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-03	Feet below surface:	162.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-04-27	Feet below surface:	162.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-04-20	Feet below surface:	158.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-04-12	Feet below surface:	161.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-04-05	Feet below surface:	162.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-29	Feet below surface:	154.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-23	Feet below surface:	157.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-15	Feet below surface:	152.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-08	Feet below surface:	149.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-02-22	Feet below surface:	115.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-15	Feet below surface:	106.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-08	Feet below surface:	107.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-01	Feet below surface:	111.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-25	Feet below surface:	110.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-18	Feet below surface:	111.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-11	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-04	Feet below surface:	109.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-12-28	Feet below surface:	112.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-21	Feet below surface:	110.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-14	Feet below surface:	114.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-08	Feet below surface:	116.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-30	Feet below surface:	115.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-23	Feet below surface:	119.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-17	Feet below surface:	165.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-11-09	Feet below surface:	171.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-11-02	Feet below surface:	171.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-26	Feet below surface:	177.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-17	Feet below surface:	175.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-05	Feet below surface:	176.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-28	Feet below surface:	173.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-22	Feet below surface:	152.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-16	Feet below surface:	168.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-08	Feet below surface:	168.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-31	Feet below surface:	165.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-24	Feet below surface:	169.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-17	Feet below surface:	165.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-10	Feet below surface:	163.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-03	Feet below surface:	165.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1965-07-27	Feet below surface:	166.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-19	Feet below surface:	169.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-13	Feet below surface:	165.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-06	Feet below surface:	162.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-03-20	Feet below surface:	104.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-18	Feet below surface:	173.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-18	Feet below surface:	175.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-04-14	Feet below surface:	142.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-05	Feet below surface:	137.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-02-11	Feet below surface:	95.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-13	Feet below surface:	151.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-16	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-11-17	Feet below surface:	145.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-10-13	Feet below surface:	141.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-09-20	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-10	Feet below surface:	143.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-12	Feet below surface:	142.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-17	Feet below surface:	135.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-17	Feet below surface:	130.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-04-17	Feet below surface:	120.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-10	Feet below surface:	87.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-02-25	Feet below surface:	79.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-10	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-23	Feet below surface:	92.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-31	Feet below surface:	122.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-12-11	Feet below surface:	134.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-27	Feet below surface:	133.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-09	Feet below surface:	131.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-18	Feet below surface:	131.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-05	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-08	Feet below surface:	134.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-09	Feet below surface:	133.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-28	Feet below surface:	130.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-11	Feet below surface:	129.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-16	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-02	Feet below surface:	111.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-19	Feet below surface:	111.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-26	Feet below surface:	115.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-10	Feet below surface:	115.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-30	Feet below surface:	98.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-15	Feet below surface:	93.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-02-27	Feet below surface:	103.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1962-02-10	Feet below surface:	102.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-29	Feet below surface:	125.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-15	Feet below surface:	127.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-26	Feet below surface:	132.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-12	Feet below surface:	127.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-29	Feet below surface:	129.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-15	Feet below surface:	125.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-01	Feet below surface:	122.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-14	Feet below surface:	109.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-03	Feet below surface:	93.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-05-20	Feet below surface:	96.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-05-05	Feet below surface:	93.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-04-22	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-04-09	Feet below surface:	88.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-03-18	Feet below surface:	66.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-06	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-11	Feet below surface:	63.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-06	Feet below surface:	59.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-19	Feet below surface:	71.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-31	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-13	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-12-03	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-19	Feet below surface:	106.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-02	Feet below surface:	116.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-10-18	Feet below surface:	116.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-10-07	Feet below surface:	119.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-13	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-06	Feet below surface:	117.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-13	Feet below surface:	120.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-30	Feet below surface:	121.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-14	Feet below surface:	123.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-02	Feet below surface:	126.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-24	Feet below surface:	75.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-04	Feet below surface:	119.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-20	Feet below surface:	121.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-13	Feet below surface:	115.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-23	Feet below surface:	119.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-10	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-19	Feet below surface:	69.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-05	Feet below surface:	56.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-02-27	Feet below surface:	34.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-06	Feet below surface:	33.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-01-09	Feet below surface:	44.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-12	Feet below surface:	64.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-02	Feet below surface:	69.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-23	Feet below surface:	63.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-14	Feet below surface:	61.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-06	Feet below surface:	55.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-12	Feet below surface:	122.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-03	Feet below surface:	119.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-15	Feet below surface:	105.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-08	Feet below surface:	104.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-01	Feet below surface:	95.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-16	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-11	Feet below surface:	91.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-02	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-27	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-18	Feet below surface:	89.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-04	Feet below surface:	90.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-21	Feet below surface:	96.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-02-09	Feet below surface:	42.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-31	Feet below surface:	40.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-17	Feet below surface:	36.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-12-29	Feet below surface:	48.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-13	Feet below surface:	52.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-06	Feet below surface:	51.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-01	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-22	Feet below surface:	50.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-14	Feet below surface:	45.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-08	Feet below surface:	52.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-31	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-25	Feet below surface:	119.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-16	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-11	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-04	Feet below surface:	97.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-29	Feet below surface:	97.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-20	Feet below surface:	98.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-14	Feet below surface:	96.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-06	Feet below surface:	96.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-30	Feet below surface:	98.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-23	Feet below surface:	96.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-16	Feet below surface:	99.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-09	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-02	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-07-26	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-18	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-12	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-05	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-28	Feet below surface:	89.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-21	Feet below surface:	87.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-14	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-07	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-31	Feet below surface:	80.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-24	Feet below surface:	77.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-17	Feet below surface:	73.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-10	Feet below surface:	77.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-03	Feet below surface:	70.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-26	Feet below surface:	70.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-19	Feet below surface:	34.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-12	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-05	Feet below surface:	18.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	38.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-03-22	Feet below surface:	18.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-15	Feet below surface:	28.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-08	Feet below surface:	42.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-03-01	Feet below surface:	43.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-02-22	Feet below surface:	45.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-02-15	Feet below surface:	44.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-02-08	Feet below surface:	31.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-18	Feet below surface:	35.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-11	Feet below surface:	37.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-04	Feet below surface:	31.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-23	Feet below surface:	44.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-14	Feet below surface:	46.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-07	Feet below surface:	43.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-30	Feet below surface:	43.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-23	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-16	Feet below surface:	39.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-09	Feet below surface:	41.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-02	Feet below surface:	44.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-26	Feet below surface:	47.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-19	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-05	Feet below surface:	91.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-28	Feet below surface:	93.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-20	Feet below surface:	90.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-10	Feet below surface:	93.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-09-04	Feet below surface:	93.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-24	Feet below surface:	92.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-09	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-18	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-06	Feet below surface:	112.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-29	Feet below surface:	113.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-22	Feet below surface:	105.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-15	Feet below surface:	104.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-06	Feet below surface:	99.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-02-21	Feet below surface:	23.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-31	Feet below surface:	46.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-07	Feet below surface:	107.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-14	Feet below surface:	104.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-16	Feet below surface:	101.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-19	Feet below surface:	106.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-17	Feet below surface:	107.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-30	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-19	Feet below surface:	74.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-05-26	Feet below surface:	88.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-05-19	Feet below surface:	89.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-04-28	Feet below surface:	27.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-31	Feet below surface:	39.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-20	Feet below surface:	28.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-14	Feet below surface:	25.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-17	Feet below surface:	37.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-12	Feet below surface:	46.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-20	Feet below surface:	50.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-19	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-14	Feet below surface:	44.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-28	Feet below surface:	41.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-15	Feet below surface:	38.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-30	Feet below surface:	34.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-04	Feet below surface:	23.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-30	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-02	Feet below surface:	78.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

AH160
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000006130**

Well ID:	3310031-112	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 92-2	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-112&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AH161
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000434**

Well ID:	3310031-112	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 92-2	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-112&store_num=		
GeoTracker Data:	Not Reported		

AH162
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000001857**

Well ID:	3310031-033	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 30-1 - DESTROYED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-033&store_num=		
GeoTracker Data:	Not Reported		

AH163
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00001413**

Well ID:	USGS-340505117152201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340505117152201	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-340505117152201&store_num=		
GeoTracker Data:	Not Reported		

AG164
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000024291**

Well ID:	01S04W15R001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W15R001S	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=01S04W15R001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AF165
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006714**

State Well #:	01S04W13E007S	Station ID:	2356
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AH166
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000012252**

Well ID:	01S04W13F002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13F002S	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=01S04W13F002S&store_num=		
GeoTracker Data:	Not Reported		

AE167
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00018148**

Well ID:	USGS-340437117164301	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340437117164301	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-340437117164301&store_num=		
GeoTracker Data:	Not Reported		

AH168
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140789**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13F002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19310101	Well Depth:	422
Well Depth Units:	ft	Well Hole Depth:	422
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	194	Level reading date:	1970-03-31
Feet below surface:	114.20	Feet to sea level:	Not Reported

Note:	Not Reported		
Level reading date:	1969-11-18	Feet below surface:	130.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-29	Feet below surface:	131.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-10	Feet below surface:	145.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-04-28	Feet below surface:	158.16
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-12-02	Feet below surface:	142.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-19	Feet below surface:	145.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-15	Feet below surface:	161.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-07-11	Feet below surface:	138.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-13	Feet below surface:	135.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-09	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-11	Feet below surface:	133.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-07	Feet below surface:	144.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-14	Feet below surface:	129.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-10	Feet below surface:	135.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-13	Feet below surface:	140.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-29	Feet below surface:	146.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-18	Feet below surface:	146.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-27	Feet below surface:	169.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-21	Feet below surface:	166.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-09-13	Feet below surface:	164.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1966-09-06	Feet below surface:	161.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-30	Feet below surface:	161.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-23	Feet below surface:	162.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-16	Feet below surface:	162.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-09	Feet below surface:	141.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-02	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-26	Feet below surface:	144.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-19	Feet below surface:	142.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-04	Feet below surface:	155.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-28	Feet below surface:	162.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-21	Feet below surface:	161.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-14	Feet below surface:	159.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-07	Feet below surface:	155.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-24	Feet below surface:	131.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-03	Feet below surface:	131.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-26	Feet below surface:	130.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-19	Feet below surface:	130.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-12	Feet below surface:	128.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-05	Feet below surface:	128.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-29	Feet below surface:	128.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-23	Feet below surface:	127.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-03-15	Feet below surface:	125.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-08	Feet below surface:	123.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-01	Feet below surface:	122.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-22	Feet below surface:	122.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-15	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-08	Feet below surface:	122.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-01	Feet below surface:	124.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-25	Feet below surface:	124.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-18	Feet below surface:	123.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-11	Feet below surface:	125.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-04	Feet below surface:	126.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-28	Feet below surface:	127.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-21	Feet below surface:	127.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-14	Feet below surface:	122.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-08	Feet below surface:	125.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-30	Feet below surface:	121.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-23	Feet below surface:	132.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-16	Feet below surface:	140.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-09	Feet below surface:	142.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-02	Feet below surface:	156.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-24	Feet below surface:	150.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1965-10-17	Feet below surface:	149.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-10-05	Feet below surface:	139.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-28	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-23	Feet below surface:	136.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-16	Feet below surface:	138.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-08	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-31	Feet below surface:	145.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-24	Feet below surface:	144.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-17	Feet below surface:	144.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-10	Feet below surface:	140.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-03	Feet below surface:	150.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-27	Feet below surface:	130.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-07-20	Feet below surface:	129.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-07-13	Feet below surface:	129.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-07-06	Feet below surface:	128.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-20	Feet below surface:	123.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-01	Feet below surface:	119.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-17	Feet below surface:	115.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-14	Feet below surface:	111.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-05	Feet below surface:	116.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-09	Feet below surface:	111.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1964-01-06	Feet below surface:	117.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-16	Feet below surface:	111.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-17	Feet below surface:	108.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-13	Feet below surface:	104.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-20	Feet below surface:	107.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-10	Feet below surface:	120.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-07-13	Feet below surface:	105.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-16	Feet below surface:	113.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-17	Feet below surface:	113.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-04-17	Feet below surface:	110.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-18	Feet below surface:	95.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-25	Feet below surface:	97.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-10	Feet below surface:	100.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-23	Feet below surface:	101.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-31	Feet below surface:	101.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-11	Feet below surface:	115.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-27	Feet below surface:	113.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-31	Feet below surface:	100.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-18	Feet below surface:	99.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-20	Feet below surface:	113.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-22	Feet below surface:	113.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1962-07-28	Feet below surface:	117.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-11	Feet below surface:	116.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-16	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-02	Feet below surface:	113.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-19	Feet below surface:	112.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-05	Feet below surface:	109.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-21	Feet below surface:	106.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-30	Feet below surface:	73.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-14	Feet below surface:	75.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-27	Feet below surface:	77.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-09	Feet below surface:	81.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-15	Feet below surface:	88.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-22	Feet below surface:	88.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-09	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-12	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-09	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-13	Feet below surface:	63.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-11	Feet below surface:	101.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-04	Feet below surface:	101.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-29	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-20	Feet below surface:	101.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-09-13	Feet below surface:	99.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-06	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-30	Feet below surface:	97.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-23	Feet below surface:	101.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-16	Feet below surface:	99.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-09	Feet below surface:	99.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-02	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-26	Feet below surface:	88.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-19	Feet below surface:	88.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-12	Feet below surface:	88.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-05	Feet below surface:	85.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-28	Feet below surface:	81.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-21	Feet below surface:	77.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-14	Feet below surface:	68.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-02	Feet below surface:	56.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-30	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-24	Feet below surface:	53.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-17	Feet below surface:	51.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-10	Feet below surface:	54.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-03	Feet below surface:	43.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-26	Feet below surface:	45.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-04-19	Feet below surface:	35.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-12	Feet below surface:	33.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-05	Feet below surface:	36.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	40.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-22	Feet below surface:	40.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-15	Feet below surface:	42.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-08	Feet below surface:	45.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-01	Feet below surface:	47.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-22	Feet below surface:	45.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-15	Feet below surface:	47.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-08	Feet below surface:	49.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-18	Feet below surface:	58.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-11	Feet below surface:	61.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-23	Feet below surface:	54.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-14	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-07	Feet below surface:	65.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-30	Feet below surface:	66.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-23	Feet below surface:	86.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-16	Feet below surface:	65.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-09	Feet below surface:	68.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-02	Feet below surface:	96.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-10-26	Feet below surface:	95.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-10-19	Feet below surface:	97.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-10-10	Feet below surface:	102.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-12-07	Feet below surface:	105.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-14	Feet below surface:	106.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-16	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-19	Feet below surface:	103.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-18	Feet below surface:	101.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-08	Feet below surface:	58.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-29	Feet below surface:	56.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-28	Feet below surface:	50.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-31	Feet below surface:	48.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-20	Feet below surface:	54.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-14	Feet below surface:	51.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-17	Feet below surface:	53.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-12	Feet below surface:	55.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-20	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-19	Feet below surface:	54.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-14	Feet below surface:	52.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-28	Feet below surface:	51.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-15	Feet below surface:	49.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1955-05-30	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-04	Feet below surface:	44.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-30	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-02	Feet below surface:	91.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-04	Feet below surface:	0.20
Feet to sea level:	Not Reported	Note:	Not Reported

AH169
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000012555**

Well ID:	3310031-034	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 31-1 - DESTROYED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-034&store_num=		
GeoTracker Data:	Not Reported		

AE170
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140659**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22A005S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19530101	Well Depth:	108
Well Depth Units:	ft	Well Hole Depth:	108
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1953-10-22
Feet below surface:	40.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AH171
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00005708**

Well ID:	USGS-340506117152201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340506117152201	GAMA PFAS Testing:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340506117152201&store_num=

GeoTracker Data: Not Reported

AI172
South
1/2 - 1 Mile
Higher

CA WELLS 936

Seq:	936	Prim sta c:	01S/04W-23K01 S
Frds no:	3310031029	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 27-2	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340413.7	Longitude:	1171600.3
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	29-MAR-18	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	29-MAR-18	Finding:	8.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	28-FEB-18	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	28-FEB-18	Finding:	9.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	25-JAN-18	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	25-JAN-18	Finding:	8.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	08-DEC-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-DEC-17	Finding:	8.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	01-NOV-17	Finding:	8.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-NOV-17	Finding:	8.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-17	Finding:	8.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-17	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-SEP-17	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-SEP-17	Finding:	7.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-AUG-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-AUG-17	Finding:	7.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-JUL-17	Finding:	8.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-17	Finding:	7.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUN-17	Finding:	8.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUN-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAY-17	Finding:	7.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-MAY-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-16	Finding:	9.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-16	Finding:	4.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L

Dlr:	1.		
Sample date:	14-NOV-16	Finding:	0.22
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-NOV-16	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-NOV-16	Finding:	9.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-NOV-16	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	9.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-16	Finding:	8.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-JUL-16	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	6.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUL-16	Finding:	9.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-JUL-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	0.64
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-JUN-16	Finding:	4.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	10-JUN-16	Finding:	8.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	10-JUN-16	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	6.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	10-JUN-16	Finding:	570.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	0.57
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	10-JUN-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	9.9
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JUN-16	Finding:	9.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUN-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	10-JUN-16	Finding:	43.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	68.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	27.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	94.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	340.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	9.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JUN-16	Finding:	330.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	10-JUN-16	Finding:	270.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	10-JUN-16	Finding:	920.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-OCT-15	Finding:	7.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	20-OCT-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-OCT-15	Finding:	1.7
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-OCT-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-OCT-15	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	0.28
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-15	Finding:	7.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-SEP-15	Finding:	1.8
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-15	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-AUG-15	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-15	Finding:	7.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-AUG-15	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-15	Finding:	7.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	15-JUL-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-15	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-JUL-15	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUN-15	Finding:	0.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUN-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JUN-15	Finding:	7.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-JUN-15	Finding:	1.8
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-MAY-15	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-MAY-15	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	29-MAY-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-15	Finding:	8.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	29-MAY-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-15	Finding:	0.28
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-15	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-15	Finding:	7.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-APR-15	Finding:	1.8
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-15	Finding:	8.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-MAR-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAR-15	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-MAR-15	Finding:	0.25
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-15	Finding:	6.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-MAR-15	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-15	Finding:	8.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	29-JAN-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JAN-15	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-JAN-15	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JAN-15	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-SEP-14	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-SEP-14	Finding:	0.52
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-SEP-14	Finding:	7.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	18-SEP-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-14	Finding:	4.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	18-SEP-14	Finding:	0.32
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-14	Finding:	4.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	15-AUG-14	Finding:	0.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-14	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-AUG-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-AUG-14	Finding:	7.2
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	15-AUG-14	Finding:	0.33
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-14	Finding:	0.33
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-14	Finding:	5.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-JUL-14	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JUL-14	Finding:	0.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-14	Finding:	7.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-JUL-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-14	Finding:	7.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-MAY-14	Finding:	4.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-MAY-14	Finding:	0.27
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-14	Finding:	6.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-MAY-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-14	Finding:	0.35
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-14	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	28-FEB-14	Finding:	0.31
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	28-FEB-14	Finding:	5.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-FEB-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-FEB-14	Finding:	1.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-FEB-14	Finding:	0.35
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-14	Finding:	6.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	20-JUN-13	Finding:	4.68
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	20-JUN-13	Finding:	7.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	20-JUN-13	Finding:	870.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	250.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	310.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	320.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	90.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	23.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	69.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	20-JUN-13	Finding:	40.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	95.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	20-JUN-13	Finding:	0.64
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	20-JUN-13	Finding:	4.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	20-JUN-13	Finding:	6.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-JUN-13	Finding:	550.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JUN-13	Finding:	7600.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	20-JUN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-JUN-13	Finding:	8400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-13	Finding:	1.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-12	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-DEC-12	Finding:	9.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	06-DEC-12	Finding:	4.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-DEC-12	Finding:	2.16
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-12	Finding:	7.49
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-DEC-12	Finding:	7.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-MAY-12	Finding:	8.89
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-MAY-12	Finding:	7.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-MAY-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAY-12	Finding:	8.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-MAY-12	Finding:	2.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-MAR-12	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-MAR-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAR-12	Finding:	6.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-MAR-12	Finding:	8.94
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	08-MAR-12	Finding:	1.98
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-12	Finding:	5.86
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-FEB-12	Finding:	1.92
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	16-FEB-12	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-FEB-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-FEB-12	Finding:	6.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

173
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140871**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14C00AS	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19510101	Well Depth:	117
Well Depth Units:	ft	Well Hole Depth:	125
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-12-14
Feet below surface:	18.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AI174
South
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000016725**

Well ID:	3310031-029	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 27-2	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-029&store_num=		
GeoTracker Data:	Not Reported		

AI175
South
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000950**

Well ID:	3310031-029	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 27-2	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-029&store_num=		

GeoTracker Data: Not Reported

AE176
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006652**

State Well #:	01S04W22A005S	Station ID:	29005
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AI177
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000140514**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	418
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AI178
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00017599**

Well ID:	USGS-340412117155601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340412117155601	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-340412117155601&store_num=		
GeoTracker Data:	Not Reported		

AH179
ENE
1/2 - 1 Mile
Higher

CA WELLS **893**

Seq:	893	Prim sta c:	01S/04W-13F02 S
Frds no:	3310031034	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 31-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340507.6	Longitude:	1171520.9
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	02-JUL-14	Finding:	6300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUL-14	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

AF180
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006713**

State Well #:	01S04W13F003S	Station ID:	26947
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

181
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000017605**

Well ID:	01S04W23C003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23C003S	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=01S04W23C003S&store_num=		
GeoTracker Data:	Not Reported		

AH182
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000001280**

Well ID:	3310031-176	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 31-1R	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-176&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AH183
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000009735**

Well ID:	3310031-176	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 31-1R	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-176&store_num=		
GeoTracker Data:	Not Reported		

AF184
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000029047**

Well ID:	01S04W13E007S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13E007S	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=01S04W13E007S&store_num=		
GeoTracker Data:	Not Reported		

185
ESE
1/2 - 1 Mile
Higher

CA WELLS **940**

Seq:	940	Prim sta c:	01S/04W-24C01 S
Frds no:	3610013009	County:	36
District:	13	User id:	TAN
System no:	3610013	Water type:	G
Source nam:	RICHARDSON ST. WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340431.0	Longitude:	1171520.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610013	System nam:	City Of Loma Linda
Hqname:	Not Reported	Address:	11134 ANDERSON STREET
City:	LOMA LINDA	State:	CA
Zip:	92354	Zip ext:	Not Reported
Pop serv:	20000	Connection:	3994
Area serve:	LOMA LINDA		

186
SSW
1/2 - 1 Mile
Lower

CA WELLS **929**

Seq:	929	Prim sta c:	01S/04W-22H04 S
Frds no:	3310031100	County:	33

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	WARREN WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340417.8	Longitude:	1171628.4
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	26-MAR-18	Finding:	5.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-OCT-17	Finding:	6.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	27-JUL-17	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	27-JUL-17	Finding:	6.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	20-APR-17	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	20-APR-17	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	29-MAR-17	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	29-MAR-17	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	12-JAN-17	Finding:	0.75
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	28-OCT-16	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	28-OCT-16	Finding:	4.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	28-OCT-16	Finding:	0.81

Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-OCT-16	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	30-SEP-16	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	31-AUG-16	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUL-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-16	Finding:	7.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-JUL-16	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUL-16	Finding:	4.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	14-JUL-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUN-16	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-MAY-16	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-APR-16	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-APR-16	Finding:	4.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-APR-16	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-APR-16	Finding:	3.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	21-APR-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-APR-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAR-16	Finding:	5.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-MAR-16	Finding:	4.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-MAR-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-MAR-16	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAR-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-DEC-15	Finding:	5.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	29-OCT-15	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-OCT-15	Finding:	5.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	29-OCT-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-OCT-15	Finding:	4.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-OCT-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-OCT-15	Finding:	3.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	29-OCT-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-SEP-15	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	27-AUG-15	Finding:	5.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	16-JUL-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JUL-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-JUL-15	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-JUL-15	Finding:	4.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-JUL-15	Finding:	5.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-JUL-15	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	19-JUN-15	Finding:	4.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-MAY-15	Finding:	5.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-APR-15	Finding:	0.2
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-APR-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-15	Finding:	5.3e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-APR-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-APR-15	Finding:	7000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	09-APR-15	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-APR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	4.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-APR-15	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	8.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	09-APR-15	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	09-APR-15	Finding:	9.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-APR-15	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-APR-15	Finding:	73.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-APR-15	Finding:	42.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	74.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	2.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	50.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	09-APR-15	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-15	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-APR-15	Finding:	630.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-APR-15	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-MAR-15	Finding:	5.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-MAR-15	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAR-15	Finding:	3.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-15	Finding:	3.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-OCT-14	Finding:	8.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-OCT-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	09-OCT-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-14	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-AUG-14	Finding:	5.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-JUL-14	Finding:	5.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-JUL-14	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-14	Finding:	3.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-JUL-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUL-14	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	620.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	140.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	50.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	2.6
Chemical:	MAGNESIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	05-JUN-14	Finding:	76.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	40.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	72.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-JUN-14	Finding:	0.56
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-JUN-14	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-JUN-14	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-JUN-14	Finding:	5.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	05-JUN-14	Finding:	5.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JUN-14	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	4.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-JUN-14	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	0.87
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-14	Finding:	2500.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		

Sample date:	05-JUN-14	Finding:	0.11
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-JUN-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUN-14	Finding:	7100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-14	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUN-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	5.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-SEP-13	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-AUG-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-AUG-13	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-AUG-13	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-AUG-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-AUG-13	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-AUG-13	Finding:	5.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JUL-13	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUN-13	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-13	Finding:	4.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	05-JUN-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-13	Finding:	5.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-APR-13	Finding:	7600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-13	Finding:	0.26
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-APR-13	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-APR-13	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-13	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	11-APR-13	Finding:	5.8
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-APR-13	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-APR-13	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-13	Finding:	68.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	11-APR-13	Finding:	43.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	630.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-13	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-13	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	61.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	2.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	91.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	5.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-MAR-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-13	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-MAR-13	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-12	Finding:	4.8
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	04-OCT-12	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-OCT-12	Finding:	4.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-12	Finding:	4.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-OCT-12	Finding:	3.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-OCT-12	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-AUG-12	Finding:	5.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-JUN-12	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	4.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-JUN-12	Finding:	5.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	16-MAY-12	Finding:	5.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	19-APR-12	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	19-APR-12	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	19-APR-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-APR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-APR-12	Finding:	0.54
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-APR-12	Finding:	4.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-APR-12	Finding:	130.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	19-APR-12	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

AH187
ENE **FED USGS** **USGS40000140788**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13F001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19020101	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

AF188
ENE **FED USGS** **USGS40000140820**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13E007S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19560101	Well Depth:	145
Well Depth Units:	ft	Well Hole Depth:	148
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1956-07-23
Feet below surface:	70.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AF189
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00000788**

Well ID:	USGS-340511117152101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340511117152101	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-340511117152101&store_num=		
GeoTracker Data:	Not Reported		

190
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140569**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23E001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19280101	Well Depth:	250
Well Depth Units:	ft	Well Hole Depth:	730
Well Hole Depth Units:	ft		

191
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140828**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13D008S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19160101	Well Depth:	124
Well Depth Units:	ft	Well Hole Depth:	124
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AJ192
SW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00000930**

Well ID:	USGS-340426117164101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340426117164101	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-340426117164101&store_num=		
GeoTracker Data:	Not Reported		

AJ193
SW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000016346**

Well ID:	3310031-101	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WARREN WELL 02 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-101&store_num=		
GeoTracker Data:	Not Reported		

AJ194
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140607**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22H001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19300101	Well Depth:	486
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	390	Level reading date:	1970-05-31
Feet below surface:	87.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1969-11-28	Feet below surface:	91.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-03	Feet below surface:	102.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-03	Feet below surface:	117.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-30	Feet below surface:	97.50

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-08	Feet below surface:	128.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-11	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-07-07	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-02	Feet below surface:	92.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-05	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-07	Feet below surface:	92.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-03	Feet below surface:	93.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-03	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-06	Feet below surface:	93.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-02	Feet below surface:	101.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-11	Feet below surface:	102.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-07	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-30	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-20	Feet below surface:	141.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-15	Feet below surface:	127.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-10	Feet below surface:	97.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-26	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-22	Feet below surface:	92.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-25	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-25	Feet below surface:	81.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-01-28	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-24	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-19	Feet below surface:	98.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-15	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-10	Feet below surface:	98.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-11	Feet below surface:	90.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-07	Feet below surface:	79.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-16	Feet below surface:	81.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-02	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-19	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-05	Feet below surface:	89.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-19	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-05	Feet below surface:	89.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-15	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-02	Feet below surface:	87.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-18	Feet below surface:	92.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-04	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-20	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-06	Feet below surface:	96.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-23	Feet below surface:	95.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-02	Feet below surface:	95.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1964-09-11	Feet below surface:	162.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-08-11	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-07-12	Feet below surface:	158.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-19	Feet below surface:	152.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-15	Feet below surface:	148.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-01	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-10	Feet below surface:	133.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-03-13	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-14	Feet below surface:	76.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-10	Feet below surface:	149.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-13	Feet below surface:	81.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	77.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-15	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-01	Feet below surface:	83.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-18	Feet below surface:	85.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-04	Feet below surface:	81.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-13	Feet below surface:	148.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-30	Feet below surface:	149.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-16	Feet below surface:	147.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-01	Feet below surface:	147.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-12	Feet below surface:	138.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1963-06-21	Feet below surface:	148.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-07	Feet below surface:	147.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-24	Feet below surface:	77.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-10	Feet below surface:	77.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-26	Feet below surface:	70.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-29	Feet below surface:	61.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-15	Feet below surface:	146.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-01	Feet below surface:	66.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-08	Feet below surface:	78.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-26	Feet below surface:	134.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-12-21	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-08	Feet below surface:	144.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-23	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-09	Feet below surface:	146.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-26	Feet below surface:	148.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-12	Feet below surface:	149.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-28	Feet below surface:	78.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	144.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-31	Feet below surface:	143.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-17	Feet below surface:	142.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-03	Feet below surface:	71.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-07-20	Feet below surface:	137.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-29	Feet below surface:	141.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-15	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-01	Feet below surface:	68.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-18	Feet below surface:	65.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-04	Feet below surface:	65.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04-13	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-30	Feet below surface:	41.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-16	Feet below surface:	44.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-02	Feet below surface:	46.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-22	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-02	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-01-05	Feet below surface:	71.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-22	Feet below surface:	97.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-12-09	Feet below surface:	62.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-17	Feet below surface:	75.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-03	Feet below surface:	120.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-10-13	Feet below surface:	132.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-29	Feet below surface:	139.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-15	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-01	Feet below surface:	73.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1961-08-18	Feet below surface:	139.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-04	Feet below surface:	140.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-14	Feet below surface:	141.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-30	Feet below surface:	110.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-16	Feet below surface:	140.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-02	Feet below surface:	63.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-12	Feet below surface:	123.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-05-05	Feet below surface:	58.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-14	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-31	Feet below surface:	55.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-16	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-03	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-17	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-03	Feet below surface:	50.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-20	Feet below surface:	133.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-01-06	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-12-23	Feet below surface:	132.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-25	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-11	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-28	Feet below surface:	139.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-10-14	Feet below surface:	59.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-09-30	Feet below surface:	112.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-14	Feet below surface:	62.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-02	Feet below surface:	136.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-19	Feet below surface:	138.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-05	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-15	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-01	Feet below surface:	134.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-24	Feet below surface:	133.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-10	Feet below surface:	52.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-27	Feet below surface:	134.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-20	Feet below surface:	123.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-29	Feet below surface:	42.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-15	Feet below surface:	123.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-01	Feet below surface:	121.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-18	Feet below surface:	110.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-04	Feet below surface:	20.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-19	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-29	Feet below surface:	28.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-15	Feet below surface:	32.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-03	Feet below surface:	37.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-18	Feet below surface:	56.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-12-04	Feet below surface:	137.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-13	Feet below surface:	101.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-02	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-19	Feet below surface:	136.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-02	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-25	Feet below surface:	56.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-18	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-11	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-04	Feet below surface:	111.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-28	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-21	Feet below surface:	139.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-14	Feet below surface:	139.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-07	Feet below surface:	53.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-31	Feet below surface:	140.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-24	Feet below surface:	140.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-17	Feet below surface:	54.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-10	Feet below surface:	139.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-03	Feet below surface:	139.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-26	Feet below surface:	53.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-19	Feet below surface:	138.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-12	Feet below surface:	139.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1959-06-05	Feet below surface:	138.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-22	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-15	Feet below surface:	102.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-01	Feet below surface:	44.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-24	Feet below surface:	113.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-17	Feet below surface:	42.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-10	Feet below surface:	114.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-27	Feet below surface:	108.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-13	Feet below surface:	21.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-20	Feet below surface:	25.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-06	Feet below surface:	43.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-23	Feet below surface:	38.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-02	Feet below surface:	41.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-19	Feet below surface:	117.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-12-05	Feet below surface:	46.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-21	Feet below surface:	118.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-07	Feet below surface:	127.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-24	Feet below surface:	48.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-17	Feet below surface:	124.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-10	Feet below surface:	49.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-03	Feet below surface:	121.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date: 1958-09-26
Feet to sea level: Not Reported
Feet below surface: 118.00
Note: The site was being pumped.

Level reading date: 1958-09-19
Feet to sea level: Not Reported
Feet below surface: 126.00
Note: The site was being pumped.

Level reading date: 1958-09-13
Feet to sea level: Not Reported
Feet below surface: 121.00
Note: The site was being pumped.

Level reading date: 1958-09-05
Feet to sea level: Not Reported
Feet below surface: 126.60
Note: The site was being pumped.

Level reading date: 1958-08-29
Feet to sea level: Not Reported
Feet below surface: 126.00
Note: The site was being pumped.

Level reading date: 1958-08-22
Feet to sea level: Not Reported
Feet below surface: 122.00
Note: The site was being pumped.

Level reading date: 1958-08-16
Feet to sea level: Not Reported
Feet below surface: 119.90
Note: The site was being pumped.

Level reading date: 1958-08-08
Feet to sea level: Not Reported
Feet below surface: 118.00
Note: The site was being pumped.

Level reading date: 1958-08-01
Feet to sea level: Not Reported
Feet below surface: 129.60
Note: The site was being pumped.

Level reading date: 1958-07-25
Feet to sea level: Not Reported
Feet below surface: 130.00
Note: The site was being pumped.

Level reading date: 1958-07-18
Feet to sea level: Not Reported
Feet below surface: 126.00
Note: The site was being pumped.

Level reading date: 1958-07-11
Feet to sea level: Not Reported
Feet below surface: 118.00
Note: The site was being pumped.

Level reading date: 1958-07-04
Feet to sea level: Not Reported
Feet below surface: 124.00
Note: The site was being pumped.

Level reading date: 1958-06-27
Feet to sea level: Not Reported
Feet below surface: 112.00
Note: The site was being pumped.

Level reading date: 1958-06-20
Feet to sea level: Not Reported
Feet below surface: 118.80
Note: The site was being pumped.

Level reading date: 1958-06-13
Feet to sea level: Not Reported
Feet below surface: 119.80
Note: The site was being pumped.

Level reading date: 1958-06-06
Feet to sea level: Not Reported
Feet below surface: 118.80
Note: The site was being pumped.

Level reading date: 1958-05-30
Feet to sea level: Not Reported
Feet below surface: 115.80
Note: The site was being pumped.

Level reading date: 1958-05-23
Feet to sea level: Not Reported
Feet below surface: 116.00
Note: The site was being pumped.

Level reading date: 1958-05-16
Feet to sea level: Not Reported
Feet below surface: 115.00
Note: The site was being pumped.

Level reading date: 1958-05-09
Feet to sea level: Not Reported
Feet below surface: 33.80
Note: Not Reported

Level reading date:	1958-04-25	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-10	Feet below surface:	8.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	8.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	13.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-21	Feet below surface:	18.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-07	Feet below surface:	22.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-24	Feet below surface:	44.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-13	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-27	Feet below surface:	26.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-13	Feet below surface:	126.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-29	Feet below surface:	49.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-15	Feet below surface:	35.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-01	Feet below surface:	44.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-18	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-10-04	Feet below surface:	55.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-28	Feet below surface:	137.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-20	Feet below surface:	136.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-13	Feet below surface:	140.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-06	Feet below surface:	138.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-30	Feet below surface:	105.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-25	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-08-23	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-16	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-09	Feet below surface:	101.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-02	Feet below surface:	102.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	105.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-19	Feet below surface:	104.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-12	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-05	Feet below surface:	102.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-28	Feet below surface:	109.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-21	Feet below surface:	47.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-12	Feet below surface:	119.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-25	Feet below surface:	97.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-10	Feet below surface:	147.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-08	Feet below surface:	42.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-28	Feet below surface:	34.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-26	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-16	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-12	Feet below surface:	142.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-01	Feet below surface:	100.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-03-15	Feet below surface:	99.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-03-01	Feet below surface:	15.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-02-15	Feet below surface:	16.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-04	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-21	Feet below surface:	22.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-04	Feet below surface:	42.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-14	Feet below surface:	46.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-30	Feet below surface:	99.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-16	Feet below surface:	52.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-02	Feet below surface:	50.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-19	Feet below surface:	51.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-21	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-07	Feet below surface:	99.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-24	Feet below surface:	100.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-10	Feet below surface:	99.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-27	Feet below surface:	49.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-13	Feet below surface:	98.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-29	Feet below surface:	102.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-15	Feet below surface:	48.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-05	Feet below surface:	45.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-01	Feet below surface:	3.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-01	Feet below surface:	2.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-01	Feet below surface:	1.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1954-01-04	Feet below surface:	20.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-01	Feet below surface:	25.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-01	Feet below surface:	31.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-05-01	Feet below surface:	11.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-02	Feet below surface:	12.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-02	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-05	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-01	Feet below surface:	8.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-01	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-01	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-03	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-02-01	Feet below surface:	13.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-02	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-03	Feet below surface:	19.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-01	Feet below surface:	24.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-15	Feet below surface:	20.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-01	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-01	Feet below surface:	4.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-01	Feet below surface:	8.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-02	Feet below surface:	5.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-01	Feet below surface:	4.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1950-11-15	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-02	Feet below surface:	15.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-09-15	Feet below surface:	21.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-01	Feet below surface:	5.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-14	Feet below surface:	1.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-01	Feet below surface:	24.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-02-01	Feet below surface:	18.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-01-03	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-01	Feet below surface:	1.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-01	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-01	Feet below surface:	98.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1949-09-01	Feet below surface:	98.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1949-08-01	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1949-07-01	Feet below surface:	97.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1949-06-01	Feet below surface:	98.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1949-05-16	Feet below surface:	2.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-01	Feet below surface:	8.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-01	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-01	Feet below surface:	30.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-14	Feet below surface:	11.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-12-01	Feet below surface:	2.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1948-10-01	Feet below surface:	97.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-09-15	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-08-02	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-07-01	Feet below surface:	97.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1948-06-01	Feet below surface:	2.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-01	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-01	Feet below surface:	11.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-02-02	Feet below surface:	8.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-01-02	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-01	Feet below surface:	3.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-11-01	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-10-01	Feet below surface:	4.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-02	Feet below surface:	4.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-01	Feet below surface:	8.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-03	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-01	Feet below surface:	16.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-02	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-02	Feet below surface:	26.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-01	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-07-01	Feet below surface:	131.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1946-06-01	Feet below surface:	27.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1946-05-01	Feet below surface:	4.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-01	Feet below surface:	11.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-01	Feet below surface:	24.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-02-01	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-01-15	Feet below surface:	25.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-12-14	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-01	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-01	Feet below surface:	124.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-09-04	Feet below surface:	121.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-08-01	Feet below surface:	125.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-07-02	Feet below surface:	128.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1945-06-01	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-05-01	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-02	Feet below surface:	28.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-03-01	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-02-01	Feet below surface:	13.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-01-02	Feet below surface:	18.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-12-01	Feet below surface:	23.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-01	Feet below surface:	3.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-07-01	Feet below surface:	101.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1944-06-01	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1944-05-17	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-01	Feet below surface:	25.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-03-02	Feet below surface:	28.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-02-16	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-02	Feet below surface:	25.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-01	Feet below surface:	4.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-11-01	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-01	Feet below surface:	99.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-09-15	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-13	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-07-15	Feet below surface:	106.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1943-06-01	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-05-01	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-02	Feet below surface:	30.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-02	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-02-01	Feet below surface:	25.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-01-15	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-16	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-03	Feet below surface:	106.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1942-07-16	Feet below surface:	108.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-10-05	Feet below surface:	5.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1940-09-03	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-01	Feet below surface:	108.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1940-07-16	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-02	Feet below surface:	3.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-01	Feet below surface:	2.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-15	Feet below surface:	106.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1939-06-30	Feet below surface:	2.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-06-16	Feet below surface:	1.00
Feet to sea level:	Not Reported	Note:	Not Reported

AJ195
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000029470**

Well ID:	01S04W22H001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22H001S	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=01S04W22H001S&store_num=		
GeoTracker Data:	Not Reported		

AK196
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000027471**

Well ID:	01S04W22A006S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22A006S	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=01S04W22A006S&store_num=		
GeoTracker Data:	Not Reported		

AL197
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000026646**

Well ID:	01S04W13F003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13F003S	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=01S04W13F003S&store_num=		

GeoTracker Data: Not Reported

198
WNW **CA WELLS** **CADWR0000021772**
1/2 - 1 Mile
Lower

Well ID:	01S04W15H003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W15H003S	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=01S04W15H003S&store_num=		
GeoTracker Data:	Not Reported		

AJ199
SW **CA WELLS** **926**
1/2 - 1 Mile
Lower

Seq:	926	Prim sta c:	01S/04W-22H01 S
Frds no:	3310031101	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	WARREN WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340426.5	Longitude:	1171642.3
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

AJ200
SW **CA WELLS** **927**
1/2 - 1 Mile
Lower

Seq:	927	Prim sta c:	01S/04W-22H02 S
Frds no:	3310031103	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	WARREN WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340427.2	Longitude:	1171643.2
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	11-JAN-18	Finding:	0.55
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-18	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JAN-18	Finding:	0.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-18	Finding:	0.93
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-DEC-17	Finding:	0.83
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-MAY-17	Finding:	2.5
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	0.93
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	0.79
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-MAY-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	0.66
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	1.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-MAY-17	Finding:	0.34
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-MAY-17	Finding:	0.95

Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-MAY-17	Finding:	41.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-MAY-17	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	1.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	70.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	0.53
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	13.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	35.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	0.79
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-MAY-17	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	8.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	100.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-MAY-17	Finding:	120.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-NOV-16	Finding:	0.68
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.58
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-MAY-16	Finding:	1.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-FEB-16	Finding:	0.56
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-FEB-16	Finding:	1.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-FEB-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-FEB-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	0.58
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-DEC-15	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-DEC-15	Finding:	2.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-15	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-DEC-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-AUG-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-AUG-15	Finding:	3.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	27-AUG-15	Finding:	1.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-AUG-15	Finding:	2.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-AUG-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	21-MAY-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAY-15	Finding:	1.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-MAY-15	Finding:	2.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-MAR-15	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-MAR-15	Finding:	1.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-14	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-14	Finding:	2.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-14	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	78.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	94.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	29.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	15-MAY-14	Finding:	11.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	0.42
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	69.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	1.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	29.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	41.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	15-MAY-14	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-MAY-14	Finding:	3.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	15-MAY-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	1.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-MAY-14	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	0.41
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	7.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	15-MAY-14	Finding:	22.
Chemical:	RADON 222 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	660.
Chemical:	RADON 222	Report units:	PCI/L
Dlr:	100.		
Sample date:	15-MAY-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported

Dlr:	0.		
Sample date:	15-MAY-14	Finding:	420.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-MAY-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	0.149
Chemical:	STRONTIUM - 90 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-MAY-14	Finding:	0.94
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-MAR-14	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-MAR-14	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-MAR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-SEP-13	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	0.45
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	3.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-SEP-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	19-SEP-13	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	92.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	32.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	12.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	0.49
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	68.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	38.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-SEP-13	Finding:	0.92
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-SEP-13	Finding:	67.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	3.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-SEP-13	Finding:	12.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	33.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	12-SEP-13	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	89.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	0.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	39.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-SEP-13	Finding:	0.85
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-SEP-13	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-SEP-13	Finding:	820.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-13	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-SEP-13	Finding:	0.15
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-AUG-13	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	13-AUG-13	Finding:	1.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-AUG-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	750.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUL-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-JUL-13	Finding:	3.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUL-13	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-JUL-13	Finding:	0.93
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-JUL-13	Finding:	38.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-JUL-13	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	1.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	78.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	0.55
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	14.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	37.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	05-JUL-13	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	92.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	370.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-JUL-13	Finding:	0.52
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JUN-13	Finding:	5.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JUN-13	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUN-13	Finding:	1.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-JUN-13	Finding:	3.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	3.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-MAR-13	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	1.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-MAR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	2.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	18-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-OCT-12	Finding:	3.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-AUG-12	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-AUG-12	Finding:	2.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-MAY-12	Finding:	2.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

AM201
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140594**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W24E001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	527
Well Depth Units:	ft	Well Hole Depth:	527
Well Hole Depth Units:	ft		

AL202
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140815**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13F003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19260101	Well Depth:	120

Well Depth Units:	ft	Well Hole Depth:	123
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1951-03-15
Feet below surface:	42.79	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1926	Feet below surface:	28.00
Feet to sea level:	Not Reported	Note:	Not Reported

AL203
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00019038**

Well ID:	USGS-340510117151801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340510117151801	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-340510117151801&store_num=		
GeoTracker Data:	Not Reported		

AM204
SE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00003868**

Well ID:	USGS-340425117152201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340425117152201	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-340425117152201&store_num=		
GeoTracker Data:	Not Reported		

205
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000015869**

Well ID:	01S04W13P001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13P001S	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=01S04W13P001S&store_num=		
GeoTracker Data:	Not Reported		

AN206
North
1/2 - 1 Mile
Higher

Site ID:	083601353T
Groundwater Flow:	SSE
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	36.29
Date:	03/25/1999

AQUIFLOW **52045**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AO207
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000012322**

Well ID:	01S04W13L001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13L001S	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=01S04W13L001S&store_num=		
GeoTracker Data:	Not Reported		

AO208
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000035691**

Well ID:	01S04W13L002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13L002S	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=01S04W13L002S&store_num=		
GeoTracker Data:	Not Reported		

AK209
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000023183**

Well ID:	01S04W22A001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22A001S	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=01S04W22A001S&store_num=		
GeoTracker Data:	Not Reported		

AK210
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00016370**

Well ID:	USGS-340433117164901	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340433117164901	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-340433117164901&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AP211
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140641**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22A001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19010101	Well Depth:	642
Well Depth Units:	ft	Well Hole Depth:	642
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	9	Level reading date:	1916-04-15
Feet below surface:	86.30	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1916-03-22	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1916-02-24	Feet below surface:	93.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1916-01-14	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-12-27	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-11-29	Feet below surface:	66.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-09-13	Feet below surface:	54.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-06-02	Feet below surface:	77.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-04-19	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	Not Reported

212
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000140727**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13P001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	528
Well Depth Units:	ft	Well Hole Depth:	528
Well Hole Depth Units:	ft		

AJ213
SW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00015705**

Well ID:	USGS-340425117164401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340425117164401	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-340425117164401&store_num=		
GeoTracker Data:	Not Reported		

AJ214
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140595**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19480101	Well Depth:	1106
Well Depth Units:	ft	Well Hole Depth:	1106
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	296	Level reading date:	1991-04-29
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Level reading date:	1990-10-29	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-04-17	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-10-24	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-04-25	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-10-13	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1970-03-31	Feet below surface:	50.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-28	Feet below surface:	42.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-01-03	Feet below surface:	144.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-05	Feet below surface:	61.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-30	Feet below surface:	65.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-05	Feet below surface:	72.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-01	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-10	Feet below surface:	72.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-03	Feet below surface:	54.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-06	Feet below surface:	59.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-16	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-11	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-14	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-16	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-20	Feet below surface:	161.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-22	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-17	Feet below surface:	156.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-26	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-08	Feet below surface:	149.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-03-11	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-11	Feet below surface:	52.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-14	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-17	Feet below surface:	59.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-11-19	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-15	Feet below surface:	84.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-24	Feet below surface:	81.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-11	Feet below surface:	79.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-14	Feet below surface:	47.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-09	Feet below surface:	47.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-19	Feet below surface:	57.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-12	Feet below surface:	61.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-08	Feet below surface:	52.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-18	Feet below surface:	69.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-04	Feet below surface:	58.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-12	Feet below surface:	90.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-02	Feet below surface:	69.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-11	Feet below surface:	150.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-08-14	Feet below surface:	149.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-07-10	Feet below surface:	147.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-19	Feet below surface:	143.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-15	Feet below surface:	135.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-01	Feet below surface:	137.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-04-10	Feet below surface:	132.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-03-13	Feet below surface:	139.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1964-02-14	Feet below surface:	136.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-01-10	Feet below surface:	140.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-12-13	Feet below surface:	138.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-11-29	Feet below surface:	137.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-11-15	Feet below surface:	51.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-01	Feet below surface:	137.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-10-18	Feet below surface:	59.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-04	Feet below surface:	52.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-13	Feet below surface:	140.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-30	Feet below surface:	142.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-16	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-01	Feet below surface:	137.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-12	Feet below surface:	138.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-21	Feet below surface:	132.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-07	Feet below surface:	134.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-24	Feet below surface:	135.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-10	Feet below surface:	132.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-04-26	Feet below surface:	36.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-29	Feet below surface:	131.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-15	Feet below surface:	129.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-01	Feet below surface:	130.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1963-02-08	Feet below surface:	130.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-01-26	Feet below surface:	117.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-12-21	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-12-08	Feet below surface:	132.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-23	Feet below surface:	130.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-09	Feet below surface:	132.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-26	Feet below surface:	136.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-12	Feet below surface:	132.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-28	Feet below surface:	49.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	128.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-31	Feet below surface:	129.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-17	Feet below surface:	130.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-03	Feet below surface:	129.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-20	Feet below surface:	130.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-29	Feet below surface:	138.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-15	Feet below surface:	129.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-01	Feet below surface:	123.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-18	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-04	Feet below surface:	129.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-13	Feet below surface:	138.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-30	Feet below surface:	126.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1962-03-16	Feet below surface:	126.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-02	Feet below surface:	10.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-22	Feet below surface:	10.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-02	Feet below surface:	126.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-01-05	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-12-08	Feet below surface:	19.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-17	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-11-03	Feet below surface:	127.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-10-13	Feet below surface:	133.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-29	Feet below surface:	131.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-15	Feet below surface:	136.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-01	Feet below surface:	136.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-18	Feet below surface:	134.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-04	Feet below surface:	133.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-07-14	Feet below surface:	134.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-30	Feet below surface:	140.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-16	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-02	Feet below surface:	126.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-05-12	Feet below surface:	121.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-05-05	Feet below surface:	22.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-14	Feet below surface:	121.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1961-03-31	Feet below surface:	13.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-16	Feet below surface:	17.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-03	Feet below surface:	121.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-02-17	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-02-02	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-01-20	Feet below surface:	122.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-01-06	Feet below surface:	123.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-12-23	Feet below surface:	124.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-25	Feet below surface:	122.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-11-11	Feet below surface:	8.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-28	Feet below surface:	126.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-10-14	Feet below surface:	123.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-30	Feet below surface:	30.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-14	Feet below surface:	121.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-09-02	Feet below surface:	127.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-19	Feet below surface:	128.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-05	Feet below surface:	128.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-15	Feet below surface:	127.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-01	Feet below surface:	123.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-24	Feet below surface:	120.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-10	Feet below surface:	122.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1960-05-27	Feet below surface:	124.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-20	Feet below surface:	122.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-29	Feet below surface:	123.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-15	Feet below surface:	123.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-01	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-18	Feet below surface:	115.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-12-18	Feet below surface:	127.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-12-04	Feet below surface:	199.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-13	Feet below surface:	126.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-02	Feet below surface:	120.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-19	Feet below surface:	127.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-02	Feet below surface:	120.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-25	Feet below surface:	20.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-11	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-04	Feet below surface:	122.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-28	Feet below surface:	123.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-21	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-14	Feet below surface:	126.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-07	Feet below surface:	125.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-31	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-24	Feet below surface:	126.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1959-07-17	Feet below surface:	126.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-03	Feet below surface:	125.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-26	Feet below surface:	122.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-19	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-12	Feet below surface:	122.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-05	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-22	Feet below surface:	116.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-15	Feet below surface:	115.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-01	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-24	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-17	Feet below surface:	118.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-10	Feet below surface:	109.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-27	Feet below surface:	112.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-13	Feet below surface:	97.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-02-20	Feet below surface:	100.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-02-06	Feet below surface:	112.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-01-23	Feet below surface:	109.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-01-02	Feet below surface:	110.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-12-19	Feet below surface:	103.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-12-05	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-21	Feet below surface:	115.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-11-07	Feet below surface:	118.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-24	Feet below surface:	5.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-17	Feet below surface:	114.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-10	Feet below surface:	121.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-03	Feet below surface:	119.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-26	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-19	Feet below surface:	122.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-13	Feet below surface:	118.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-05	Feet below surface:	124.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-29	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-22	Feet below surface:	122.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-16	Feet below surface:	16.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-08	Feet below surface:	120.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-01	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-25	Feet below surface:	121.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-18	Feet below surface:	120.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-11	Feet below surface:	117.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-04	Feet below surface:	119.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-27	Feet below surface:	117.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-20	Feet below surface:	117.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-13	Feet below surface:	118.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-06-06	Feet below surface:	117.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-30	Feet below surface:	117.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-23	Feet below surface:	118.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-16	Feet below surface:	120.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-09	Feet below surface:	113.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-25	Feet below surface:	106.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-10	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-18	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-21	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-07	Feet below surface:	107.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-01-24	Feet below surface:	108.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-01-13	Feet below surface:	108.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-12-27	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-13	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-29	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-15	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-01	Feet below surface:	115.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-10-18	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-04	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-09-28	Feet below surface:	125.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-20	Feet below surface:	124.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-13	Feet below surface:	124.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-06	Feet below surface:	126.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-30	Feet below surface:	127.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-25	Feet below surface:	29.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-23	Feet below surface:	127.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-16	Feet below surface:	126.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-09	Feet below surface:	126.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-02	Feet below surface:	125.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	126.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-19	Feet below surface:	125.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-12	Feet below surface:	124.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-05	Feet below surface:	124.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-29	Feet below surface:	107.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-28	Feet below surface:	124.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-21	Feet below surface:	52.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-12	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-25	Feet below surface:	116.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-10	Feet below surface:	113.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-01	Feet below surface:	78.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-04-26	Feet below surface:	108.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-12	Feet below surface:	112.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-01	Feet below surface:	106.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-01-04	Feet below surface:	118.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-12-14	Feet below surface:	117.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-30	Feet below surface:	120.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-16	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-02	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-19	Feet below surface:	121.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-05	Feet below surface:	2.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-21	Feet below surface:	121.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-07	Feet below surface:	119.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-24	Feet below surface:	120.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-10	Feet below surface:	119.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-27	Feet below surface:	90.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-13	Feet below surface:	114.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-29	Feet below surface:	114.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-15	Feet below surface:	115.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-05	Feet below surface:	113.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1953-06-02	Feet below surface:	7.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1953-05-01	Feet below surface:	57.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1953-04-01	Feet below surface:	11.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1953-03-02	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-02	Feet below surface:	25.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1953-01-05	Feet below surface:	69.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-01	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-02	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1952-08-01	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1952-07-02	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1952-06-04	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1952-05-01	Feet below surface:	69.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-01	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1952-03-03	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-02-01	Feet below surface:	67.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-02	Feet below surface:	57.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-03	Feet below surface:	4.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-11-01	Feet below surface:	4.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-10-01	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-09-18	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-08-01	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-07-02	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-06-01	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1951-05-01	Feet below surface:	63.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-02	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1951-03-01	Feet below surface:	71.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-01	Feet below surface:	73.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-02	Feet below surface:	64.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-01	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-01	Feet below surface:	7.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-10-02	Feet below surface:	7.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-09-01	Feet below surface:	7.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-08-01	Feet below surface:	50.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-07-14	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-06-01	Feet below surface:	10.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-05-01	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-04-14	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1950-03-01	Feet below surface:	91.00
Feet to sea level:	Not Reported	Note:	Not Reported

AJ215
SW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000004249**

Well ID:	3310031-103	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WARREN WELL 04 - DESTROYED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-103&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AJ216
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000010293**

Well ID:	01S04W22H002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22H002S	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=01S04W22H002S&store_num=		
GeoTracker Data:	Not Reported		

217
SE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000009889**

Well ID:	01S04W24E001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W24E001S	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=01S04W24E001S&store_num=		
GeoTracker Data:	Not Reported		

218
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140604**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W24F001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	531
Well Depth Units:	ft	Well Hole Depth:	531
Well Hole Depth Units:	ft		

AQ219
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000034974**

Well ID:	01S04W13D005S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13D005S	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=01S04W13D005S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

220
North
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000140917**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W11Q001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19290101	Well Depth:	174
Well Depth Units:	ft	Well Hole Depth:	188
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	214	Level reading date:	1965-02-12
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	An obstruction was encountered in the well above the water surface (no water level recorded).		

Level reading date:	1964-08-13	Feet below surface:	103.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-07	Feet below surface:	94.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-27	Feet below surface:	94.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	94.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-11	Feet below surface:	94.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-02	Feet below surface:	92.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-21	Feet below surface:	87.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-17	Feet below surface:	88.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-05	Feet below surface:	84.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-15	Feet below surface:	77.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-13	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-15	Feet below surface:	79.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-21	Feet below surface:	77.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1961-06-15	Feet below surface:	77.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-07	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-09	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-27	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-15	Feet below surface:	48.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-17	Feet below surface:	62.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-10	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-16	Feet below surface:	50.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-16	Feet below surface:	47.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	43.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-22	Feet below surface:	49.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-27	Feet below surface:	53.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-26	Feet below surface:	57.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-19	Feet below surface:	49.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-26	Feet below surface:	50.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-13	Feet below surface:	50.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-26	Feet below surface:	45.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-11	Feet below surface:	43.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-19	Feet below surface:	37.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-06	Feet below surface:	29.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-11	Feet below surface:	42.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1955-11-16	Feet below surface:	43.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-29	Feet below surface:	44.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-16	Feet below surface:	43.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-13	Feet below surface:	34.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-30	Feet below surface:	30.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-31	Feet below surface:	23.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-12-17	Feet below surface:	25.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-22	Feet below surface:	40.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-07-23	Feet below surface:	38.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-29	Feet below surface:	26.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-18	Feet below surface:	22.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-04	Feet below surface:	22.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-22	Feet below surface:	33.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-12	Feet below surface:	35.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-06	Feet below surface:	36.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-09	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-09	Feet below surface:	10.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-20	Feet below surface:	9.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-04	Feet below surface:	27.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-01	Feet below surface:	27.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-10	Feet below surface:	17.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1950-11-07	Feet below surface:	28.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-25	Feet below surface:	18.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-02-21	Feet below surface:	5.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-13	Feet below surface:	21.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-09-12	Feet below surface:	48.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1949-04-25	Feet below surface:	15.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-08	Feet below surface:	3.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-11-10	Feet below surface:	15.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-06-29	Feet below surface:	15.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-06	Feet below surface:	8.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-31	Feet below surface:	7.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-16	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-12	Feet below surface:	12.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-26	Feet below surface:	9.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-13	Feet below surface:	0.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-29	Feet below surface:	14.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-05-29	Feet below surface:	11.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-25	Feet below surface:	9.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-01-17	Feet below surface:	3.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-19	Feet below surface:	10.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-08-13	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1945-06-08	Feet below surface:	9.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-01-25	Feet below surface:	4.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-16	Feet below surface:	2.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-09-27	Feet below surface:	12.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-08-04	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-06-21	Feet below surface:	10.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-05-05	Feet below surface:	5.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-03	Feet below surface:	0.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-11-09	Feet below surface:	9.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-09-20	Feet below surface:	12.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-06	Feet below surface:	12.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-06-07	Feet below surface:	7.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-27	Feet below surface:	1.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-02-05	Feet below surface:	0.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-21	Feet below surface:	8.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-02-17	Feet below surface:	5.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-11-13	Feet below surface:	1.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-09-29	Feet below surface:	9.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-08-25	Feet below surface:	9.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-15	Feet below surface:	8.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-06-02	Feet below surface:	3.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1941-01-22	Feet below surface:	0.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-06	Feet below surface:	9.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-10-25	Feet below surface:	13.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-09-26	Feet below surface:	15.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-27	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-07-22	Feet below surface:	15.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-06-27	Feet below surface:	12.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-23	Feet below surface:	10.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-23	Feet below surface:	8.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-21	Feet below surface:	6.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-02-23	Feet below surface:	0.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-25	Feet below surface:	1.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-12-28	Feet below surface:	7.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-30	Feet below surface:	10.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-25	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-28	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-30	Feet below surface:	13.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-31	Feet below surface:	12.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-01	Feet below surface:	12.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-23	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-25	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-03-23	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-23	Feet below surface:	0.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-04	Feet below surface:	1.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-27	Feet below surface:	1.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-30	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-07	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-24	Feet below surface:	10.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-09-27	Feet below surface:	11.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-30	Feet below surface:	11.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-07-26	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-24	Feet below surface:	5.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-01	Feet below surface:	4.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-28	Feet below surface:	9.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-03-31	Feet below surface:	1.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-02-24	Feet below surface:	3.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-26	Feet below surface:	7.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-12-28	Feet below surface:	5.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-26	Feet below surface:	16.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-27	Feet below surface:	16.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-02	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-02	Feet below surface:	16.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1937-08-01	Feet below surface:	9.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-02	Feet below surface:	14.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-04-07	Feet below surface:	4.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-03-04	Feet below surface:	6.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-30	Feet below surface:	9.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-04	Feet below surface:	10.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-12-02	Feet below surface:	19.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-11-02	Feet below surface:	13.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-10-01	Feet below surface:	25.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-09-02	Feet below surface:	25.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-06-02	Feet below surface:	22.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-30	Feet below surface:	18.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-30	Feet below surface:	16.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-02	Feet below surface:	8.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-02-04	Feet below surface:	13.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-01-02	Feet below surface:	15.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-12-02	Feet below surface:	20.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-31	Feet below surface:	22.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-02	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-03	Feet below surface:	22.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-08-02	Feet below surface:	23.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1935-06-01	Feet below surface:	18.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-05-08	Feet below surface:	16.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-09	Feet below surface:	7.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-03-13	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-02-11	Feet below surface:	7.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-01-16	Feet below surface:	8.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-11-05	Feet below surface:	18.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-09-04	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-31	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-28	Feet below surface:	20.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-06	Feet below surface:	19.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-05-09	Feet below surface:	18.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-04-06	Feet below surface:	18.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-05	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-02-07	Feet below surface:	9.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-01-03	Feet below surface:	6.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-11-07	Feet below surface:	17.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-10-05	Feet below surface:	18.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-09-06	Feet below surface:	18.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-08-05	Feet below surface:	19.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-07-07	Feet below surface:	17.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1933-06-12	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-10-03	Feet below surface:	20.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-26	Feet below surface:	20.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-18	Feet below surface:	18.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-11	Feet below surface:	18.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-10	Feet below surface:	17.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-09	Feet below surface:	17.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-08	Feet below surface:	17.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-07	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-06	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-05	Feet below surface:	18.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-04	Feet below surface:	16.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-03	Feet below surface:	15.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-01	Feet below surface:	14.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-31	Feet below surface:	11.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-29	Feet below surface:	20.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-28	Feet below surface:	21.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-27	Feet below surface:	21.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-26	Feet below surface:	20.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-25	Feet below surface:	22.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-22	Feet below surface:	20.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1931-08-21	Feet below surface:	21.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-19	Feet below surface:	20.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-14	Feet below surface:	20.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-13	Feet below surface:	20.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-12	Feet below surface:	21.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-11	Feet below surface:	21.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-07	Feet below surface:	19.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-04	Feet below surface:	21.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-03	Feet below surface:	20.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-07-30	Feet below surface:	63.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1931-07-29	Feet below surface:	20.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

221
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000037287**

Well ID:	01S04W23H001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23H001S	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=01S04W23H001S&store_num=		
GeoTracker Data:	Not Reported		

AN222
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006754**

State Well #:	01S04W11Q001S	Station ID:	26796
Well Name:	Not Reported	Basin Name:	San Bernardino
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

AP223
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006649**

State Well #:	01S04W22A001S	Station ID:	4252
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AR224
SW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000017993**

Well ID:	3310031-102	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WARREN WELL 03 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-102&store_num=		
GeoTracker Data:	Not Reported		

AS225
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000000464**

Well ID:	01S04W23K002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23K002S	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=01S04W23K002S&store_num=		
GeoTracker Data:	Not Reported		

AS226
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000002738**

Well ID:	01S04W23K001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W23K001S	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=01S04W23K001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AR227
SW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00008406**

Well ID:	USGS-340421117164401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340421117164401	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-340421117164401&store_num=		
GeoTracker Data:	Not Reported		

AR228
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140562**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22H003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19480101	Well Depth:	861
Well Depth Units:	ft	Well Hole Depth:	861
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	303	Level reading date:	1970-03-31
Feet below surface:	82.80	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1969-11-28	Feet below surface:	110.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-03	Feet below surface:	114.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-03	Feet below surface:	102.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-30	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-08	Feet below surface:	128.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-04	Feet below surface:	117.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-07-07	Feet below surface:	107.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-02	Feet below surface:	95.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-05-05	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-07	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-03	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-03	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-06	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-02	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-04	Feet below surface:	114.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-07	Feet below surface:	110.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-23	Feet below surface:	119.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-26	Feet below surface:	120.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-29	Feet below surface:	122.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-03	Feet below surface:	90.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-06	Feet below surface:	99.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-15	Feet below surface:	99.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-18	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-18	Feet below surface:	81.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-14	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-24	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-19	Feet below surface:	93.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-22	Feet below surface:	103.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-03	Feet below surface:	113.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-06-11	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-14	Feet below surface:	78.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-16	Feet below surface:	78.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-02	Feet below surface:	83.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-19	Feet below surface:	81.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-05	Feet below surface:	89.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-19	Feet below surface:	92.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-05	Feet below surface:	91.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-15	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-02	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-18	Feet below surface:	89.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-04	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-20	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-04	Feet below surface:	97.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-23	Feet below surface:	96.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-25	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-11	Feet below surface:	111.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-28	Feet below surface:	107.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-14	Feet below surface:	107.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-07-17	Feet below surface:	180.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-19	Feet below surface:	176.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1964-05-15	Feet below surface:	171.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-01	Feet below surface:	84.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-10	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-13	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-14	Feet below surface:	76.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-10	Feet below surface:	84.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-12-13	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	75.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-15	Feet below surface:	85.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-01	Feet below surface:	85.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-18	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-04	Feet below surface:	79.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-13	Feet below surface:	175.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-30	Feet below surface:	177.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-16	Feet below surface:	176.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-01	Feet below surface:	174.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-12	Feet below surface:	173.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-21	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-07	Feet below surface:	79.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-24	Feet below surface:	76.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-10	Feet below surface:	76.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-04-26	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-29	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-15	Feet below surface:	70.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-01	Feet below surface:	66.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-08	Feet below surface:	84.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-26	Feet below surface:	77.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-21	Feet below surface:	75.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-08	Feet below surface:	72.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-23	Feet below surface:	70.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-09	Feet below surface:	162.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-26	Feet below surface:	163.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-12	Feet below surface:	164.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-28	Feet below surface:	76.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	166.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-31	Feet below surface:	164.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-17	Feet below surface:	163.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-03	Feet below surface:	165.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-20	Feet below surface:	79.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-29	Feet below surface:	75.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-15	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-01	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-05-18	Feet below surface:	63.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-04	Feet below surface:	160.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-13	Feet below surface:	163.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-03-30	Feet below surface:	39.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-16	Feet below surface:	41.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-02	Feet below surface:	45.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-22	Feet below surface:	46.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-02	Feet below surface:	158.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-01-05	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-08	Feet below surface:	59.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-17	Feet below surface:	73.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-03	Feet below surface:	75.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-13	Feet below surface:	162.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-29	Feet below surface:	164.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-15	Feet below surface:	163.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-01	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-18	Feet below surface:	167.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-04	Feet below surface:	79.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-14	Feet below surface:	165.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-30	Feet below surface:	83.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-16	Feet below surface:	168.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1961-06-02	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-12	Feet below surface:	63.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-05	Feet below surface:	62.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-14	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-31	Feet below surface:	54.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-16	Feet below surface:	57.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-03	Feet below surface:	165.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-02-17	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-02	Feet below surface:	49.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-20	Feet below surface:	165.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-01-06	Feet below surface:	58.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-23	Feet below surface:	61.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-25	Feet below surface:	55.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-11	Feet below surface:	50.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-28	Feet below surface:	61.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-14	Feet below surface:	59.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-30	Feet below surface:	59.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-14	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-02	Feet below surface:	62.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-19	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-08-05	Feet below surface:	162.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1960-07-15	Feet below surface:	161.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-07-01	Feet below surface:	158.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-24	Feet below surface:	151.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-10	Feet below surface:	53.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-27	Feet below surface:	163.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-20	Feet below surface:	158.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-29	Feet below surface:	39.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-15	Feet below surface:	165.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-01	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-18	Feet below surface:	29.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-04	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-19	Feet below surface:	22.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-29	Feet below surface:	25.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-15	Feet below surface:	29.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-03	Feet below surface:	38.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-18	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-04	Feet below surface:	58.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-13	Feet below surface:	57.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-02	Feet below surface:	57.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-19	Feet below surface:	61.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-02	Feet below surface:	53.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-09-25	Feet below surface:	55.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-18	Feet below surface:	54.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-11	Feet below surface:	154.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-04	Feet below surface:	156.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-28	Feet below surface:	156.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-21	Feet below surface:	158.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-14	Feet below surface:	159.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-07	Feet below surface:	158.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-31	Feet below surface:	159.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-24	Feet below surface:	159.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-17	Feet below surface:	159.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-10	Feet below surface:	159.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-03	Feet below surface:	158.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-26	Feet below surface:	51.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-19	Feet below surface:	157.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-12	Feet below surface:	154.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-05	Feet below surface:	50.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-22	Feet below surface:	152.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-15	Feet below surface:	152.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-01	Feet below surface:	43.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-24	Feet below surface:	46.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-04-17	Feet below surface:	39.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-10	Feet below surface:	40.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-27	Feet below surface:	36.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-13	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-20	Feet below surface:	20.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-06	Feet below surface:	41.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-23	Feet below surface:	33.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-02	Feet below surface:	38.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-19	Feet below surface:	41.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-05	Feet below surface:	44.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-21	Feet below surface:	45.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-07	Feet below surface:	151.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-24	Feet below surface:	42.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-17	Feet below surface:	155.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-10	Feet below surface:	45.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-03	Feet below surface:	155.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-26	Feet below surface:	156.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-19	Feet below surface:	157.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-13	Feet below surface:	158.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-05	Feet below surface:	158.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-29	Feet below surface:	158.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-08-22	Feet below surface:	48.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-16	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-08	Feet below surface:	160.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-01	Feet below surface:	161.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-25	Feet below surface:	162.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-18	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-11	Feet below surface:	156.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-04	Feet below surface:	156.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-27	Feet below surface:	152.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-20	Feet below surface:	153.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-13	Feet below surface:	41.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-06	Feet below surface:	41.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-30	Feet below surface:	149.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-23	Feet below surface:	142.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-16	Feet below surface:	146.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-09	Feet below surface:	31.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-25	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-10	Feet below surface:	2.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-29	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	7.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-21	Feet below surface:	13.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-02-07	Feet below surface:	18.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-24	Feet below surface:	41.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-13	Feet below surface:	34.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-27	Feet below surface:	22.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-13	Feet below surface:	40.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-29	Feet below surface:	47.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-15	Feet below surface:	30.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-01	Feet below surface:	39.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-18	Feet below surface:	46.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-04	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-28	Feet below surface:	56.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-20	Feet below surface:	53.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-13	Feet below surface:	161.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-06	Feet below surface:	162.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-30	Feet below surface:	162.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-25	Feet below surface:	55.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-23	Feet below surface:	158.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-16	Feet below surface:	168.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-09	Feet below surface:	164.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-02	Feet below surface:	164.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	162.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-07-19	Feet below surface:	163.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-12	Feet below surface:	164.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-05	Feet below surface:	161.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-29	Feet below surface:	51.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-28	Feet below surface:	169.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-21	Feet below surface:	163.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-12	Feet below surface:	159.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-25	Feet below surface:	148.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-05-10	Feet below surface:	160.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-08	Feet below surface:	32.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-28	Feet below surface:	144.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-26	Feet below surface:	30.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-01	Feet below surface:	155.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-03-15	Feet below surface:	10.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-01	Feet below surface:	13.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-15	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-04	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-21	Feet below surface:	28.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-12	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-01-04	Feet below surface:	40.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-14	Feet below surface:	44.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-11-30	Feet below surface:	51.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-16	Feet below surface:	51.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-02	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-19	Feet below surface:	50.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-05	Feet below surface:	51.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-21	Feet below surface:	155.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-07	Feet below surface:	168.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-24	Feet below surface:	170.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-10	Feet below surface:	167.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-27	Feet below surface:	49.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-13	Feet below surface:	97.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-29	Feet below surface:	101.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-15	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-05	Feet below surface:	98.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-02	Feet below surface:	17.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-05	Feet below surface:	18.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-01	Feet below surface:	8.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-01	Feet below surface:	8.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-01	Feet below surface:	12.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-03	Feet below surface:	8.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-02-01	Feet below surface:	17.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1952-01-02	Feet below surface:	9.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-03	Feet below surface:	16.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-01	Feet below surface:	20.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-01	Feet below surface:	19.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-01	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-02	Feet below surface:	11.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-01	Feet below surface:	12.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-02	Feet below surface:	0.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-01	Feet below surface:	12.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-02	Feet below surface:	11.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-09-15	Feet below surface:	12.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-08-01	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-06-15	Feet below surface:	8.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-01	Feet below surface:	4.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-14	Feet below surface:	7.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-01	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-02-01	Feet below surface:	25.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-01-03	Feet below surface:	15.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-01	Feet below surface:	0.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-06-01	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-01	Feet below surface:	37.10
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AR229
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140563**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22H004S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	965
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AR230
SW
1/2 - 1 Mile
Lower

CA WELLS **928**

Seq:	928	Prim sta c:	01S/04W-22H03 S
Frds no:	3310031102	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	WARREN WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340421.1	Longitude:	1171644.7
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

AT231
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140676**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22A007S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19570101	Well Depth:	145
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1957-06-07
Feet below surface:	44.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AS232
South
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000002471**

Well ID:	3310031-030	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 29-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-030&store_num=		
GeoTracker Data:	Not Reported		

AS233
South
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000001074**

Well ID:	3310031-030	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 29-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-030&store_num=		
GeoTracker Data:	Not Reported		

AS234
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000140461**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23K003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	640
Well Depth Units:	ft	Well Hole Depth:	640
Well Hole Depth Units:	ft		

AU235
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140881**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13D002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19230101	Well Depth:	109
Well Depth Units:	ft	Well Hole Depth:	109
Well Hole Depth Units:	ft		

236
ESE **FED USGS** **USGS40000140637**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W24A001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	746
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AR237
SW **CA WELLS** **CADWR0000022355**
1/2 - 1 Mile
Lower

Well ID:	01S04W22H003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22H003S	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=01S04W22H003S&store_num=		
GeoTracker Data:	Not Reported		

238
West **FED USGS** **USGS40000140746**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W15K002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19370101	Well Depth:	262
Well Depth Units:	ft	Well Hole Depth:	274
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	8	Level reading date:	1940-09-02
Feet below surface:	9.00	Feet to sea level:	Not Reported

Note:	Not Reported		
Level reading date:	1940-08-15	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-07-02	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-04	Feet below surface:	2.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-30	Feet below surface:	2.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-20	Feet below surface:	6.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-01	Feet below surface:	5.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-16	Feet below surface:	10.80
Feet to sea level:	Not Reported	Note:	Not Reported

AV239
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000001075**

Well ID:	3310031-113	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 92-3	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-113&store_num=		
GeoTracker Data:	Not Reported		

AV240
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000022484**

Well ID:	3310031-113	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 92-3	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-113&store_num=		
GeoTracker Data:	Not Reported		

AW241
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140693**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13P002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	505
Well Depth Units:	ft	Well Hole Depth:	505
Well Hole Depth Units:	ft		

AU242
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006740**

State Well #:	01S04W13D011S	Station ID:	26801
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AX243
SW
1/2 - 1 Mile
Lower

CA WELLS **CAPFAS000000426**

Well ID:	3310031-100	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WARREN WELL 01	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-100&store_num=		
GeoTracker Data:	Not Reported		

AX244
SW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000010486**

Well ID:	3310031-100	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WARREN WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-100&store_num=		
GeoTracker Data:	Not Reported		

245
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140783**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W15H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19300101	Well Depth:	80
Well Depth Units:	ft	Well Hole Depth:	80
Well Hole Depth Units:	ft		

AY246
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140618**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22A00AS	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19530101	Well Depth:	196
Well Depth Units:	ft	Well Hole Depth:	203
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1953-04-16
Feet below surface:	26.70	Feet to sea level:	Not Reported
Note:	Not Reported		

247
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000128121**

Well ID:	L10005495846-WA-1	Well Type:	MONITORING
Source:	EDF	Other Name:	WA-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=L10005495846&assigned_name=WA-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=L10005495846&assigned_name=WA-1		

248
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000140726**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13Q001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19000101	Well Depth:	587
Well Depth Units:	ft	Well Hole Depth:	587
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AU249
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006743**

State Well #:	01S04W13D006S	Station ID:	26800
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AZ250
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006757**

State Well #:	01S04W11R001S	Station ID:	2349
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AQ251
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006734**

State Well #:	01S04W13C001S	Station ID:	2353
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AZ252
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140921**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W11R001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19140101	Well Depth:	187
Well Depth Units:	ft	Well Hole Depth:	187
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	135	Level reading date:	1943-02-05
Feet below surface:	5.20	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1942-12-21	Feet below surface:	9.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1942-10-26	Feet below surface:	10.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-09-09	Feet below surface:	10.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-10	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-07-01	Feet below surface:	9.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-05-06	Feet below surface:	6.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-01	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-02-17	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-01-15	Feet below surface:	3.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-15	Feet below surface:	5.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-11-13	Feet below surface:	6.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-09-29	Feet below surface:	8.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-08-25	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-15	Feet below surface:	6.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-06-02	Feet below surface:	5.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-03-14	Feet below surface:	3.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-02-26	Feet below surface:	5.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-22	Feet below surface:	5.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-06	Feet below surface:	10.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-10-25	Feet below surface:	13.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-09-26	Feet below surface:	13.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-27	Feet below surface:	12.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1940-07-22	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-06-27	Feet below surface:	11.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-23	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-23	Feet below surface:	7.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-21	Feet below surface:	7.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-02-23	Feet below surface:	4.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-25	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-12-28	Feet below surface:	9.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-30	Feet below surface:	10.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-25	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-28	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-30	Feet below surface:	11.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-31	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-01	Feet below surface:	10.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-23	Feet below surface:	9.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-25	Feet below surface:	7.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-23	Feet below surface:	6.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-02-24	Feet below surface:	4.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-23	Feet below surface:	4.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-04	Feet below surface:	6.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-27	Feet below surface:	6.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1938-11-30	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-07	Feet below surface:	10.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-24	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-09-27	Feet below surface:	12.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-30	Feet below surface:	10.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-07-26	Feet below surface:	9.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-24	Feet below surface:	7.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-01	Feet below surface:	7.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-28	Feet below surface:	10.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-03-31	Feet below surface:	6.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-02-24	Feet below surface:	8.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-26	Feet below surface:	11.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-12-28	Feet below surface:	10.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-12-02	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-26	Feet below surface:	16.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-27	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-26	Feet below surface:	15.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-02	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-02	Feet below surface:	13.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-06-02	Feet below surface:	12.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-05-01	Feet below surface:	12.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1937-04-06	Feet below surface:	19.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-03-04	Feet below surface:	14.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-30	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-04	Feet below surface:	19.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-12-02	Feet below surface:	22.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-11-02	Feet below surface:	21.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-10-01	Feet below surface:	29.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-09-02	Feet below surface:	30.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-07-30	Feet below surface:	25.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-06-29	Feet below surface:	24.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-06-02	Feet below surface:	22.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-30	Feet below surface:	19.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-30	Feet below surface:	18.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-02	Feet below surface:	16.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-02-04	Feet below surface:	21.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-01-02	Feet below surface:	22.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-12-02	Feet below surface:	24.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-02	Feet below surface:	24.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-03	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-08-02	Feet below surface:	22.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-06-01	Feet below surface:	19.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1935-05-08	Feet below surface:	17.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-09	Feet below surface:	13.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-03-13	Feet below surface:	14.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-02-11	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-01-16	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-12-06	Feet below surface:	20.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-11-05	Feet below surface:	23.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-04	Feet below surface:	27.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-09-04	Feet below surface:	24.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-28	Feet below surface:	22.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-06	Feet below surface:	20.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-05-09	Feet below surface:	18.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-04-06	Feet below surface:	17.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-05	Feet below surface:	12.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-02-07	Feet below surface:	13.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-01-03	Feet below surface:	13.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-11-07	Feet below surface:	19.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-10-06	Feet below surface:	20.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-09-06	Feet below surface:	21.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-08-05	Feet below surface:	21.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-07-07	Feet below surface:	19.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1933-06-07	Feet below surface:	17.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-05-01	Feet below surface:	15.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-04-10	Feet below surface:	14.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-03-09	Feet below surface:	11.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-02-13	Feet below surface:	8.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-01-04	Feet below surface:	11.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-18	Feet below surface:	18.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-09-17	Feet below surface:	19.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-08-16	Feet below surface:	18.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-06-06	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-05-09	Feet below surface:	12.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-04-02	Feet below surface:	11.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-03-07	Feet below surface:	8.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-02-05	Feet below surface:	10.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-01-04	Feet below surface:	11.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-11-16	Feet below surface:	16.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-10-05	Feet below surface:	18.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-09-02	Feet below surface:	17.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-03	Feet below surface:	18.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-07-02	Feet below surface:	16.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-06-03	Feet below surface:	15.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1931-05-04	Feet below surface:	14.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-04-01	Feet below surface:	14.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-03-10	Feet below surface:	9.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1916-04-04	Feet below surface:	1.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-12-15	Feet below surface:	3.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-06-09	Feet below surface:	2.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1915-04-14	Feet below surface:	1.20
Feet to sea level:	Not Reported	Note:	Not Reported

AU253
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000015866**

Well ID:	01S04W13D011S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W13D011S	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=01S04W13D011S&store_num=		
GeoTracker Data:	Not Reported		

AR254
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000037734**

Well ID:	01S04W22H004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22H004S	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=01S04W22H004S&store_num=		
GeoTracker Data:	Not Reported		

BA255
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000007693**

Well ID:	01S04W22B003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22B003S	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=01S04W22B003S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AY256
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140619**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22A00BS	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19530101	Well Depth:	228
Well Depth Units:	ft	Well Hole Depth:	238
Well Hole Depth Units:	ft		

AU257
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00013589**

Well ID:	USGS-340530117152801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340530117152801	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-340530117152801&store_num=		
GeoTracker Data:	Not Reported		

AU258
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140895**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13D006S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19360101	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	102
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1939-09-20
Feet below surface:	27.80	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
AU259 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000140890**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13D011S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19570101	Well Depth:	164
Well Depth Units:	ft	Well Hole Depth:	170
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1957-11-18
Feet below surface:	70.00	Feet to sea level:	Not Reported
Note:	Not Reported		

BA260 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000021837**

Well ID:	3310031-089	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	THORNE WELL 10 - AGRICULTURAL		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-089&store_num=		
GeoTracker Data:	Not Reported		

AW261 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**941**

Seq:	941	Prim sta c:	01S/04W-24C03 S
Frds no:	3610013010	County:	36
District:	13	User id:	TAN
System no:	3610013	Water type:	G
Source nam:	RICHARDSON ST. WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340437.0	Longitude:	1171505.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610013	System nam:	City Of Loma Linda
Hqname:	Not Reported	Address:	11134 ANDERSON STREET
City:	LOMA LINDA	State:	CA
Zip:	92354	Zip ext:	Not Reported
Pop serv:	20000	Connection:	3994

Area serve: LOMA LINDA

BB262
ENE
1/2 - 1 Mile
Higher

CA WELLS 894

Seq:	894	Prim sta c:	01S/04W-13G02 S
Frds no:	3310031035	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 46-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340510.1	Longitude:	1171508.7
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

BC263
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140449

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W23K002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19290101	Well Depth:	303
Well Depth Units:	ft	Well Hole Depth:	303
Well Hole Depth Units:	ft		

AT264
WSW
1/2 - 1 Mile
Lower

CA WELLS CADWR0000032990

Well ID:	01S04W22B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W22B001S	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=01S04W22B001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AT265
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000006662**

State Well #:	01S04W22A007S	Station ID:	4253
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

BC266
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00011472**

Well ID:	USGS-340401117160101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340401117160101	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-340401117160101&store_num=		
GeoTracker Data:	Not Reported		

BA267
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140635**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22B003S	Type:	Well
Description:	reported depth 200 ft.;sounded depth 295 ft 10/03		
HUC:	18070203	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:	295
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	549	Level reading date:	2004-10-19
Feet below surface:	71.42	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-04-20	Feet below surface:	56.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-20	Feet below surface:	61.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-21	Feet below surface:	46.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-28	Feet below surface:	54.37
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-04-08	Feet below surface:	44.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-10-23	Feet below surface:	40.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-16	Feet below surface:	27.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-24	Feet below surface:	36.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-12	Feet below surface:	36.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-18	Feet below surface:	42.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-13	Feet below surface:	21.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-19	Feet below surface:	33.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-07	Feet below surface:	17.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-10-27	Feet below surface:	48.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-04-14	Feet below surface:	41.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-10-07	Feet below surface:	50.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-22	Feet below surface:	37.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-10-23	Feet below surface:	45.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-18	Feet below surface:	41.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-10-20	Feet below surface:	53.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-18	Feet below surface:	31.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-18	Feet below surface:	48.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-13	Feet below surface:	23.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-10-26	Feet below surface:	52.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-06-17	Feet below surface:	41.89
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-11-29	Feet below surface:	72.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-06-18	Feet below surface:	36.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-11-28	Feet below surface:	28.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-06-28	Feet below surface:	34.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-11-27	Feet below surface:	21.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-09-21	Feet below surface:	30.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-11-28	Feet below surface:	26.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-29	Feet below surface:	34.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-04-12	Feet below surface:	29.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-18	Feet below surface:	28.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-11-20	Feet below surface:	17.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-06-20	Feet below surface:	24.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-17	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		
Level reading date:	1985-11-08	Feet below surface:	29.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-09	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		
Level reading date:	1983-05-10	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		
Level reading date:	1983-03-22	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		
Level reading date:	1982-03-30	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		
Level reading date:	1982-02-02	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was flowing, but the head could not be measured without additional equipment.		

Level reading date:	1972-07-24	Feet below surface:	86.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-22	Feet below surface:	81.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-22	Feet below surface:	79.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04-24	Feet below surface:	80.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-22	Feet below surface:	77.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-23	Feet below surface:	75.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-26	Feet below surface:	67.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-30	Feet below surface:	73.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-11-18	Feet below surface:	79.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-10-21	Feet below surface:	84.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-02	Feet below surface:	87.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-06-15	Feet below surface:	74.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-06-01	Feet below surface:	75.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-10	Feet below surface:	68.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-02-03	Feet below surface:	70.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-12-11	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-06	Feet below surface:	88.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-08-17	Feet below surface:	85.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-07-01	Feet below surface:	84.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-15	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-23	Feet below surface:	74.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-11-13	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-09-24	Feet below surface:	96.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-24	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-09	Feet below surface:	102.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-12-11	Feet below surface:	107.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-27	Feet below surface:	83.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-13	Feet below surface:	95.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-27	Feet below surface:	102.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-16	Feet below surface:	101.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-19	Feet below surface:	100.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-15	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-24	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-20	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-15	Feet below surface:	85.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-13	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-11	Feet below surface:	82.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-18	Feet below surface:	81.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-10	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-21	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-17	Feet below surface:	89.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-19	Feet below surface:	92.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-11-18	Feet below surface:	91.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-22	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-09-17	Feet below surface:	96.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-13	Feet below surface:	105.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-30	Feet below surface:	88.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-18	Feet below surface:	92.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-05-14	Feet below surface:	88.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-04-30	Feet below surface:	81.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-15	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-07	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-02	Feet below surface:	84.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-18	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-26	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-22	Feet below surface:	88.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-08	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-24	Feet below surface:	89.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-04	Feet below surface:	88.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-24	Feet below surface:	88.00
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1964-11-20	Feet below surface:	89.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-16	Feet below surface:	95.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-09-25	Feet below surface:	90.40

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-14	Feet below surface:	94.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-07-03	Feet below surface:	94.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-26	Feet below surface:	91.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-12	Feet below surface:	89.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-06-05	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-15	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-05-01	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-04-17	Feet below surface:	82.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-04-07	Feet below surface:	69.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-03	Feet below surface:	75.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-13	Feet below surface:	77.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-06	Feet below surface:	85.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-02-14	Feet below surface:	73.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-07	Feet below surface:	73.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-16	Feet below surface:	85.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1964-01-03	Feet below surface:	77.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-12-12	Feet below surface:	75.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-12-06	Feet below surface:	75.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	71.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-14	Feet below surface:	88.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1963-11-07	Feet below surface:	79.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-17	Feet below surface:	89.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-10-04	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-09-13	Feet below surface:	91.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-09-06	Feet below surface:	90.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-16	Feet below surface:	90.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-08-02	Feet below surface:	90.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-19	Feet below surface:	88.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-07-05	Feet below surface:	88.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-28	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-06-14	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-31	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-17	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-05-03	Feet below surface:	80.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-04-19	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-04-05	Feet below surface:	76.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-03-22	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-21	Feet below surface:	61.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-08	Feet below surface:	79.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-02-21	Feet below surface:	70.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-08	Feet below surface:	86.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1963-01-25	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1963-01-11	Feet below surface:	77.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-28	Feet below surface:	83.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-12-14	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-30	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-11-16	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-02	Feet below surface:	88.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-10-19	Feet below surface:	78.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-05	Feet below surface:	88.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-21	Feet below surface:	87.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-09-07	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-31	Feet below surface:	85.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-17	Feet below surface:	84.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-08-03	Feet below surface:	83.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-20	Feet below surface:	82.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-07-06	Feet below surface:	81.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-06-01	Feet below surface:	76.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-25	Feet below surface:	75.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-05-04	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-20	Feet below surface:	67.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-04-06	Feet below surface:	43.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-03-16	Feet below surface:	42.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-13	Feet below surface:	41.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-02	Feet below surface:	46.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-16	Feet below surface:	50.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-02	Feet below surface:	56.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01-19	Feet below surface:	77.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1962-01-05	Feet below surface:	74.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-12-29	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-15	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-24	Feet below surface:	85.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-10	Feet below surface:	86.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-27	Feet below surface:	87.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-13	Feet below surface:	87.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-29	Feet below surface:	87.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-09-15	Feet below surface:	80.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-08-25	Feet below surface:	73.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-11	Feet below surface:	78.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-28	Feet below surface:	78.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-14	Feet below surface:	77.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-16	Feet below surface:	75.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1961-06-02	Feet below surface:	74.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date: 1961-05-19
Feet to sea level: Not Reported
Feet below surface: 74.10
Note: The site was being pumped.

Level reading date: 1961-05-05
Feet to sea level: Not Reported
Feet below surface: 73.40
Note: The site was being pumped.

Level reading date: 1961-04-14
Feet to sea level: Not Reported
Feet below surface: 71.20
Note: The site was being pumped.

Level reading date: 1961-04-07
Feet to sea level: Not Reported
Feet below surface: 71.10
Note: The site was being pumped.

Level reading date: 1961-03-17
Feet to sea level: Not Reported
Feet below surface: 72.70
Note: The site was being pumped.

Level reading date: 1961-03-02
Feet to sea level: Not Reported
Feet below surface: 68.10
Note: The site was being pumped.

Level reading date: 1961-02-17
Feet to sea level: Not Reported
Feet below surface: 70.30
Note: The site was being pumped.

Level reading date: 1961-02-10
Feet to sea level: Not Reported
Feet below surface: 69.40
Note: The site was being pumped.

Level reading date: 1961-01-13
Feet to sea level: Not Reported
Feet below surface: 63.60
Note: The site was being pumped.

Level reading date: 1961-01-07
Feet to sea level: Not Reported
Feet below surface: 69.20
Note: The site was being pumped.

Level reading date: 1960-12-15
Feet to sea level: Not Reported
Feet below surface: 68.70
Note: The site was being pumped.

Level reading date: 1960-12-02
Feet to sea level: Not Reported
Feet below surface: 54.90
Note: Not Reported

Level reading date: 1960-11-18
Feet to sea level: Not Reported
Feet below surface: 68.90
Note: The site was being pumped.

Level reading date: 1960-11-04
Feet to sea level: Not Reported
Feet below surface: 71.20
Note: The site was being pumped.

Level reading date: 1960-10-21
Feet to sea level: Not Reported
Feet below surface: 71.50
Note: The site was being pumped.

Level reading date: 1960-10-07
Feet to sea level: Not Reported
Feet below surface: 72.20
Note: The site was being pumped.

Level reading date: 1960-09-16
Feet to sea level: Not Reported
Feet below surface: 70.90
Note: The site was being pumped.

Level reading date: 1960-09-02
Feet to sea level: Not Reported
Feet below surface: 68.70
Note: The site was being pumped.

Level reading date: 1960-08-19
Feet to sea level: Not Reported
Feet below surface: 70.00
Note: The site was being pumped.

Level reading date: 1960-08-05
Feet to sea level: Not Reported
Feet below surface: 69.60
Note: The site was being pumped.

Level reading date: 1960-07-15
Feet to sea level: Not Reported
Feet below surface: 68.30
Note: The site was being pumped.

Level reading date:	1960-07-01	Feet below surface:	67.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-10	Feet below surface:	63.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-06-03	Feet below surface:	63.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-27	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-20	Feet below surface:	61.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-13	Feet below surface:	61.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-05-06	Feet below surface:	58.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-29	Feet below surface:	57.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-22	Feet below surface:	58.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-15	Feet below surface:	58.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-08	Feet below surface:	57.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-04-01	Feet below surface:	53.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-03-25	Feet below surface:	30.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-18	Feet below surface:	25.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-15	Feet below surface:	19.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-11	Feet below surface:	22.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-04	Feet below surface:	22.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-26	Feet below surface:	24.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-19	Feet below surface:	25.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-12	Feet below surface:	26.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-05	Feet below surface:	27.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-01-29	Feet below surface:	46.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1960-01-22	Feet below surface:	33.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-15	Feet below surface:	35.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-08	Feet below surface:	40.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-28	Feet below surface:	47.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-12-18	Feet below surface:	68.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-12-11	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-12-04	Feet below surface:	69.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-27	Feet below surface:	69.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-20	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-13	Feet below surface:	69.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-11-06	Feet below surface:	69.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-30	Feet below surface:	70.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-23	Feet below surface:	70.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-16	Feet below surface:	70.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-09	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-10-02	Feet below surface:	68.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-25	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-18	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-11	Feet below surface:	70.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-09-04	Feet below surface:	69.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1959-08-28	Feet below surface:	68.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-21	Feet below surface:	68.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-14	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-08-07	Feet below surface:	67.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-31	Feet below surface:	67.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-24	Feet below surface:	66.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-17	Feet below surface:	66.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-10	Feet below surface:	65.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-07-03	Feet below surface:	65.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-26	Feet below surface:	64.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-19	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-12	Feet below surface:	63.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-06-05	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-29	Feet below surface:	62.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-22	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-15	Feet below surface:	61.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-08	Feet below surface:	59.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-05-01	Feet below surface:	59.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-24	Feet below surface:	56.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-17	Feet below surface:	57.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-04-10	Feet below surface:	55.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1959-04-03	Feet below surface:	52.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-27	Feet below surface:	45.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-03-20	Feet below surface:	23.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-13	Feet below surface:	25.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-06	Feet below surface:	26.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-27	Feet below surface:	29.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-20	Feet below surface:	34.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-13	Feet below surface:	56.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-02-06	Feet below surface:	40.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-30	Feet below surface:	38.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-23	Feet below surface:	38.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-16	Feet below surface:	39.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-09	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1959-01-02	Feet below surface:	39.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-26	Feet below surface:	60.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-12-19	Feet below surface:	59.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-12-12	Feet below surface:	60.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-12-05	Feet below surface:	46.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-28	Feet below surface:	61.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-21	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-11-14	Feet below surface:	63.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-10-31	Feet below surface:	63.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-24	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-17	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-10-03	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-26	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-19	Feet below surface:	64.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-12	Feet below surface:	63.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-09-05	Feet below surface:	64.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-29	Feet below surface:	63.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-22	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-15	Feet below surface:	63.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-08-01	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-25	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-11	Feet below surface:	61.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-07-04	Feet below surface:	59.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-27	Feet below surface:	58.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-20	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-13	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-06-06	Feet below surface:	52.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-23	Feet below surface:	51.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-16	Feet below surface:	49.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1958-05-09	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-05-02	Feet below surface:	43.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-04-26	Feet below surface:	16.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-19	Feet below surface:	10.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-11	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-04	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-28	Feet below surface:	12.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-21	Feet below surface:	12.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-14	Feet below surface:	8.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-07	Feet below surface:	15.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-28	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-21	Feet below surface:	19.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-14	Feet below surface:	21.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-07	Feet below surface:	21.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-31	Feet below surface:	31.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-24	Feet below surface:	57.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-01-10	Feet below surface:	31.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-03	Feet below surface:	27.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-27	Feet below surface:	29.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-20	Feet below surface:	34.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-06	Feet below surface:	61.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1957-11-22	Feet below surface:	55.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-15	Feet below surface:	50.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-11-08	Feet below surface:	36.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-01	Feet below surface:	49.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-25	Feet below surface:	56.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-18	Feet below surface:	50.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-11	Feet below surface:	68.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-27	Feet below surface:	68.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-20	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-13	Feet below surface:	68.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-09-06	Feet below surface:	66.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-30	Feet below surface:	67.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-23	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-16	Feet below surface:	66.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-08-01	Feet below surface:	65.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-26	Feet below surface:	64.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-19	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-12	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-07-05	Feet below surface:	62.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-06-28	Feet below surface:	61.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-21	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-06-14	Feet below surface:	58.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-07	Feet below surface:	59.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-31	Feet below surface:	55.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-24	Feet below surface:	52.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-17	Feet below surface:	54.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-10	Feet below surface:	56.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-03	Feet below surface:	52.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-26	Feet below surface:	47.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-19	Feet below surface:	51.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-12	Feet below surface:	50.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1957-04-05	Feet below surface:	27.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-29	Feet below surface:	22.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-22	Feet below surface:	14.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-15	Feet below surface:	16.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-08	Feet below surface:	17.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-01	Feet below surface:	18.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-25	Feet below surface:	18.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-18	Feet below surface:	18.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-08	Feet below surface:	20.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-01	Feet below surface:	19.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-25	Feet below surface:	23.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-01-18	Feet below surface:	28.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-11	Feet below surface:	32.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-04	Feet below surface:	40.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-28	Feet below surface:	42.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-21	Feet below surface:	45.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-14	Feet below surface:	46.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-07	Feet below surface:	49.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-30	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-23	Feet below surface:	65.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-16	Feet below surface:	65.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-09	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-11-02	Feet below surface:	65.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-26	Feet below surface:	66.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-19	Feet below surface:	64.90
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-12	Feet below surface:	65.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-10-05	Feet below surface:	65.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-28	Feet below surface:	67.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-21	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-14	Feet below surface:	66.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-09-07	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-31	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1956-08-24	Feet below surface:	64.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-17	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-10	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-08-03	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-27	Feet below surface:	64.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-20	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-13	Feet below surface:	63.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-07-06	Feet below surface:	61.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-06-12	Feet below surface:	25.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-08	Feet below surface:	58.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-05-04	Feet below surface:	51.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-04-06	Feet below surface:	51.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-03-06	Feet below surface:	2.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1956-03-02	Feet below surface:	6.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-06	Feet below surface:	14.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-06	Feet below surface:	33.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-09	Feet below surface:	33.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-11	Feet below surface:	60.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1955-10-07	Feet below surface:	61.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1955-09-09	Feet below surface:	62.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1955-08-05	Feet below surface:	60.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1955-07-08	Feet below surface:	56.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1955-06-03	Feet below surface:	52.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1955-05-06	Feet below surface:	31.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-04	Feet below surface:	1.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-31	Feet below surface:	3.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-07	Feet below surface:	6.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-12-03	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-11-05	Feet below surface:	49.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-10-01	Feet below surface:	39.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-09-03	Feet below surface:	53.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-08-06	Feet below surface:	51.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-07-23	Feet below surface:	48.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-07-02	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-06-04	Feet below surface:	44.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-05-07	Feet below surface:	39.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-04-23	Feet below surface:	33.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1954-03-12	Feet below surface:	4.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-05	Feet below surface:	0.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-01-01	Feet below surface:	20.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1953-11-12	Feet below surface:	44.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1952-03-20	Feet below surface:	17.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1951-12-04	Feet below surface:	15.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-01	Feet below surface:	25.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-10	Feet below surface:	11.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-10	Feet below surface:	1.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-11	Feet below surface:	7.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-07-13	Feet below surface:	9.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-26	Feet below surface:	3.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-02-21	Feet below surface:	21.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-30	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-27	Feet below surface:	4.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-09-12	Feet below surface:	7.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-07-15	Feet below surface:	6.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-08	Feet below surface:	24.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-09	Feet below surface:	8.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-01-07	Feet below surface:	6.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-15	Feet below surface:	2.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-12	Feet below surface:	0.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-27	Feet below surface:	5.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-13	Feet below surface:	23.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-05-29	Feet below surface:	3.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-25	Feet below surface:	9.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1946-01-17	Feet below surface:	25.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-19	Feet below surface:	5.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-06-08	Feet below surface:	8.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-10	Feet below surface:	29.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-01-30	Feet below surface:	18.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-22	Feet below surface:	26.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-10-04	Feet below surface:	1.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-06-28	Feet below surface:	4.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-05-05	Feet below surface:	18.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-03-13	Feet below surface:	33.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-06	Feet below surface:	29.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-11-12	Feet below surface:	7.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-10	Feet below surface:	0.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-06-09	Feet below surface:	8.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-29	Feet below surface:	19.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-22	Feet below surface:	29.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-02-11	Feet below surface:	29.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-23	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-12	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-07-06	Feet below surface:	1.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-05-08	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1942-04-06	Feet below surface:	12.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-03-04	Feet below surface:	19.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-01-28	Feet below surface:	30.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-17	Feet below surface:	29.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-11-18	Feet below surface:	27.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-18	Feet below surface:	6.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-21	Feet below surface:	31.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-03-11	Feet below surface:	30.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-30	Feet below surface:	29.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-20	Feet below surface:	25.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-06-04	Feet below surface:	2.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-01	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-29	Feet below surface:	11.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-01	Feet below surface:	30.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-31	Feet below surface:	28.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-03	Feet below surface:	6.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-03	Feet below surface:	1.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-10	Feet below surface:	0.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-31	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-02	Feet below surface:	8.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-30	Feet below surface:	20.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-02-21	Feet below surface:	29.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-02-01	Feet below surface:	28.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-09-30	Feet below surface:	4.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-05-05	Feet below surface:	2.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-04-09	Feet below surface:	25.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-03-10	Feet below surface:	21.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-02-05	Feet below surface:	21.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-07	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-12-09	Feet below surface:	1.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-11-05	Feet below surface:	14.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-06	Feet below surface:	21.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-02-07	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-01-06	Feet below surface:	11.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-11	Feet below surface:	17.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-03-19	Feet below surface:	22.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-02-13	Feet below surface:	22.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-11-07	Feet below surface:	2.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-27	Feet below surface:	0.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-12	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-04	Feet below surface:	16.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-09-20	Feet below surface:	15.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1934-09-15	Feet below surface:	16.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1934-09-06	Feet below surface:	15.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1934-09-01	Feet below surface:	17.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-08-25	Feet below surface:	14.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-08-11	Feet below surface:	15.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-08-04	Feet below surface:	15.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-28	Feet below surface:	15.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-21	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-14	Feet below surface:	13.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1934-07-07	Feet below surface:	10.80
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1934-06-25	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-19	Feet below surface:	5.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-11	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-04	Feet below surface:	8.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-05-17	Feet below surface:	5.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-05-07	Feet below surface:	4.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-04-09	Feet below surface:	3.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1933-11-09	Feet below surface:	1.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-10-06	Feet below surface:	3.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-09-11	Feet below surface:	4.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-08-05	Feet below surface:	5.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1933-07-08	Feet below surface:	2.60
Feet to sea level:	Not Reported	Note:	Not Reported

BD268
WSW **CA WELLS** **CAUSGSN00005954**
1/2 - 1 Mile
Lower

Well ID:	USGS-340439117170001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340439117170001	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-340439117170001&store_num=		
GeoTracker Data:	Not Reported		

BD269
WSW **FED USGS** **USGS40000140677**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22B001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	190
Well Depth Units:	ft	Well Hole Depth:	192
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	20	Level reading date:	1970-04-02
Feet below surface:	77.30	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1969-11-24	Feet below surface:	84.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-25	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-03	Feet below surface:	102.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-24	Feet below surface:	90.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-12-01	Feet below surface:	95.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-16	Feet below surface:	107.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-08-19	Feet below surface:	106.10
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-07-22	Feet below surface:	104.20

Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-06-17	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1966-05-20	Feet below surface:	90.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-15	Feet below surface:	88.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-11	Feet below surface:	83.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-18	Feet below surface:	78.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-28	Feet below surface:	80.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-23	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-19	Feet below surface:	90.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-22	Feet below surface:	102.20
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-08-20	Feet below surface:	101.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1965-07-30	Feet below surface:	92.10
Feet to sea level:	Not Reported	Note:	Not Reported

270
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140866**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19360101	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	196
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1936
Feet below surface:	47.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

271
NNE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000140907**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W12N002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19360101	Well Depth:	102
Well Depth Units:	ft	Well Hole Depth:	102
Well Hole Depth Units:	ft		

BC272
South
1/2 - 1 Mile
Higher | **CA WELLS** | **934**

Seq:	934	Prim sta c:	01S/04W-23G03 S
Frds no:	3310031038	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 66-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340400.0	Longitude:	1171600.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	01-FEB-18	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-18	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-18	Finding:	7.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-JAN-18	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-18	Finding:	0.44

Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-18	Finding:	0.83
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-18	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-DEC-17	Finding:	3.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-DEC-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-NOV-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-NOV-17	Finding:	7.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	28-NOV-17	Finding:	2.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-SEP-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-SEP-17	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-AUG-17	Finding:	4.67
Chemical:	GROSS BETA	Report units:	PCI/L
Dlr:	4.		
Sample date:	18-AUG-17	Finding:	1.99
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-AUG-17	Finding:	6.37
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	18-AUG-17	Finding:	2.76
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-AUG-17	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-AUG-17	Finding:	0.851
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	18-AUG-17	Finding:	1.21
Chemical:	GROSS BETA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-AUG-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-AUG-17	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-JUL-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-17	Finding:	2.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	11.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAY-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	1.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	5.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-MAY-17	Finding:	5.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-MAY-17	Finding:	8.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-MAY-17	Finding:	0.91
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-MAY-17	Finding:	61.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	03-MAY-17	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAY-17	Finding:	2.3
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	640.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	03-MAY-17	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-APR-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-17	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	01-MAR-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-FEB-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-FEB-17	Finding:	5.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-FEB-17	Finding:	2.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-17	Finding:	4.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	16-NOV-16	Finding:	9.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	27-OCT-16	Finding:	5.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	27-OCT-16	Finding:	9.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-OCT-16	Finding:	2.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-16	Finding:	6.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	05-OCT-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-SEP-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-SEP-16	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-SEP-16	Finding:	4.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L

Dlr:	1.e-002		
Sample date:	15-SEP-16	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-SEP-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-SEP-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-AUG-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-AUG-16	Finding:	5.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-AUG-16	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-16	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-16	Finding:	5.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-JUN-16	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUN-16	Finding:	0.95
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUN-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUN-16	Finding:	6.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-JUN-16	Finding:	5.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-JUN-16	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	06-MAY-16	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAY-16	Finding:	5.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	06-MAY-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-APR-16	Finding:	4.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-APR-16	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-APR-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-MAR-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-MAR-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-MAR-16	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-MAR-16	Finding:	4.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-MAR-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-MAR-16	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-16	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-JAN-16	Finding:	6.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-JAN-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-JAN-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	27-JAN-16	Finding:	5.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	27-JAN-16	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-15	Finding:	4.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	22-OCT-15	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-15	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-15	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-SEP-15	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	5.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-SEP-15	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-SEP-15	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-SEP-15	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-SEP-15	Finding:	4.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-AUG-15	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-15	Finding:	0.82
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	07-AUG-15	Finding:	5.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-MAY-15	Finding:	4.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-MAY-15	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-15	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-APR-15	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-15	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-APR-15	Finding:	4.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-MAR-15	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-MAR-15	Finding:	8.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-MAR-15	Finding:	6.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-MAR-15	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-MAR-15	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-MAR-15	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-FEB-15	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-FEB-15	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	06-FEB-15	Finding:	4.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-JAN-15	Finding:	4.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-JAN-15	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JAN-15	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-DEC-14	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-DEC-14	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-DEC-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-NOV-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-NOV-14	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-14	Finding:	3.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	22-OCT-14	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-14	Finding:	0.99
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-14	Finding:	3.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	25-SEP-14	Finding:	5.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-SEP-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-SEP-14	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-SEP-14	Finding:	3.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	25-SEP-14	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-SEP-14	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-14	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-AUG-14	Finding:	0.82
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-AUG-14	Finding:	3.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	02-JUL-14	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-JUL-14	Finding:	4.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	02-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	0.73
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported

Dlr:	0.		
Sample date:	29-MAY-14	Finding:	10000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAY-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-14	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	29-MAY-14	Finding:	5.8
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	29-MAY-14	Finding:	0.9
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-MAY-14	Finding:	61.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	29-MAY-14	Finding:	39.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	77.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	240.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	29-MAY-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	670.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	4900.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	23-MAY-14	Finding:	0.69
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-14	Finding:	9.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-MAY-14	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-APR-14	Finding:	3.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-APR-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAR-14	Finding:	5.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	07-MAR-14	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-MAR-14	Finding:	6.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-MAR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-MAR-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAR-14	Finding:	3.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L

Dlr:	1.e-002		
Sample date:	01-NOV-13	Finding:	3.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-NOV-13	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-NOV-13	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	0.96
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-OCT-13	Finding:	4.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	05-SEP-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	0.92
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-13	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	06-AUG-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	3.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	06-AUG-13	Finding:	7.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-13	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	7.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-AUG-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-AUG-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUL-13	Finding:	3.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-JUL-13	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUL-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-13	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-JUN-13	Finding:	5.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	07-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-13	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-JUN-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-13	Finding:	3.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-MAY-13	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAY-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	0.33
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	01-MAY-13	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	01-MAY-13	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	3.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-MAY-13	Finding:	6.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	01-MAY-13	Finding:	0.85
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-MAY-13	Finding:	63.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-MAY-13	Finding:	40.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	77.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	240.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	670.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	01-MAY-13	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-13	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-APR-13	Finding:	9.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-APR-13	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	04-APR-13	Finding:	7.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-APR-13	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-13	Finding:	8.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-13	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-FEB-13	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-FEB-13	Finding:	9.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JAN-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JAN-13	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	10-JAN-13	Finding:	3.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-JAN-13	Finding:	9.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-DEC-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-DEC-12	Finding:	9.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-DEC-12	Finding:	4.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	13-DEC-12	Finding:	0.83
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-NOV-12	Finding:	3.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	20-NOV-12	Finding:	0.96
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-NOV-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-OCT-12	Finding:	3.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	18-OCT-12	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	7.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-OCT-12	Finding:	3.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	18-OCT-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-OCT-12	Finding:	3.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	18-OCT-12	Finding:	0.85
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-SEP-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	0.71
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-SEP-12	Finding:	4.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	13-SEP-12	Finding:	8.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	1.96
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	0.56
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	3.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	02-AUG-12	Finding:	7.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	6.58
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-JUN-12	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-JUN-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	610.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	1.3
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	14-JUN-12	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	4.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	14-JUN-12	Finding:	6.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUN-12	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	3.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-JUN-12	Finding:	5.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	14-JUN-12	Finding:	0.92
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-JUN-12	Finding:	52.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-JUN-12	Finding:	33.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUN-12	Finding:	73.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	14-JUN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	10000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUN-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUN-12	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

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CA WELLS 895

Seq:	895	Prim sta c:	01S/04W-13G03 S
Frds no:	3310031037	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GAGE WELL 56-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340508.0	Longitude:	1171505.7
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	18-OCT-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JAN-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-OCT-16	Finding:	9.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	4.8

Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	26-OCT-16	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-OCT-16	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	2300.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	3.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-OCT-16	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	35.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	31.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	26-OCT-16	Finding:	0.56
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	26-OCT-16	Finding:	110.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-OCT-16	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-OCT-16	Finding:	1.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-OCT-16	Finding:	9.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-OCT-16	Finding:	63.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	4.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	5.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	05-OCT-16	Finding:	0.54
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-OCT-16	Finding:	32.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-OCT-16	Finding:	37.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	05-OCT-16	Finding:	27.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	9.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	60.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-16	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	110.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	12-AUG-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-16	Finding:	8.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-AUG-16	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-16	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUL-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-MAY-16	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	1.81
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-APR-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-FEB-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-FEB-16	Finding:	1.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-FEB-16	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-FEB-16	Finding:	5.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-FEB-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-NOV-15	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-NOV-15	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-NOV-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-OCT-15	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-AUG-15	Finding:	4.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-AUG-15	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-AUG-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	30-JUL-15	Finding:	4.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-NOV-14	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-NOV-14	Finding:	4.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	5.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-AUG-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-14	Finding:	0.36
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-14	Finding:	8.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-MAY-14	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-MAY-14	Finding:	0.36
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	19-NOV-13	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-NOV-13	Finding:	7.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	19-NOV-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	5.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-OCT-13	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-OCT-13	Finding:	32.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	57.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	11-OCT-13	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-OCT-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-OCT-13	Finding:	3600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-OCT-13	Finding:	31.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	15-AUG-13	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-13	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-JUL-13	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUL-13	Finding:	3.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	0.87
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JUL-13	Finding:	4.7
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		

Sample date:	11-JUL-13	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUL-13	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	9.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	55.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	510.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	0.22
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-JUL-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-13	Finding:	3700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-13	Finding:	31.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	20-NOV-12	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	20-NOV-12	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-NOV-12	Finding:	7.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	20-NOV-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-12	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-12	Finding:	5.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	04-APR-12	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JAN-12	Finding:	11.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JAN-12	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	9.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-JAN-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

274
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000015862**

Well ID:	01S04W11N001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W11N001S	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=01S04W11N001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

BE275
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000014976**

Well ID:	3610013-030	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RICHARDSON WELL 05	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610013-030&store_num=		
GeoTracker Data:	Not Reported		

BE276
ESE
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000766**

Well ID:	3610013-030	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RICHARDSON WELL 05	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610013-030&store_num=		
GeoTracker Data:	Not Reported		

BE277
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000003819**

Well ID:	3610013-025	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	PURCHASED-CITY OF SB	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610013-025&store_num=		
GeoTracker Data:	Not Reported		

BE278
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000012728**

Well ID:	3610013-009	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RICHARDSON ST. WELL 01 - INAC		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610013-009&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

BA279
WSW
1/2 - 1 Mile
Lower

CA WELLS **920**

Seq:	920	Prim sta c:	01S/04W-22B03 S
Frds no:	3310031089	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	THORNE WELL 10 - AGRICULTURAL	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340432.0	Longitude:	1171659.5
Precision:	1	Status:	AG
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

Sample date:	27-JUN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	27-JUN-13	Finding:	1400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	27-JUN-13	Finding:	6.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	27-JUN-13	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	27-JUN-13	Finding:	700.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	27-JUN-13	Finding:	200.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	27-JUN-13	Finding:	38.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	27-JUN-13	Finding:	4.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	27-JUN-13	Finding:	45.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	27-JUN-13	Finding:	24.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	140.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	450.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	340.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	280.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	1000.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	27-JUN-13	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	27-JUN-12	Finding:	1100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	27-JUN-12	Finding:	4.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-JUN-12	Finding:	1.6
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	670.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	56.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		
Sample date:	27-JUN-12	Finding:	170.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	27-JUN-12	Finding:	32.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	5.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	48.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	24.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	410.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	320.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	260.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-JUN-12	Finding:	920.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

BA280
WSW
1/2 - 1 Mile
Lower

CA WELLS 921

Seq:	921	Prim sta c:	01S/04W-22B07 S
Frds no:	3310031090	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	THORNE WELL 12	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340432.0	Longitude:	1171659.5
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	24-JAN-18	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-JAN-18	Finding:	4.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	24-JAN-18	Finding:	1.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	0.12
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	0.84
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	14.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-JAN-18	Finding:	2.9
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	0.26
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	700.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	300.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	97.

Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	31.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	21.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	20-JUL-17	Finding:	0.46
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	20-JUL-17	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-JUL-17	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	20-JUL-17	Finding:	6.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	20-JUL-17	Finding:	0.85
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	20-JUL-17	Finding:	470.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-JUL-17	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	20-JUL-17	Finding:	1.8
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	0.57
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-OCT-16	Finding:	1.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-OCT-16	Finding:	0.64
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-OCT-16	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-SEP-16	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-16	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-16	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-JUL-16	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	7.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-JUL-16	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-JUL-16	Finding:	20.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	89.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	21-JUL-16	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-16	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	660.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	460.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-JUN-16	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.16
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	12-MAY-16	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	500.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	0.32
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	5.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	12-MAY-16	Finding:	300.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	12-MAY-16	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-MAY-16	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	140.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAY-16	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	34.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	100.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	310.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.93
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	2.6
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	750.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.93
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	0.88
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	0.88
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-14	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	260.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	2.7
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	88.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-14	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-JUL-14	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-JUL-14	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-14	Finding:	170.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-JUL-14	Finding:	7.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	18-JUL-14	Finding:	3.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-JUL-14	Finding:	0.56
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JUL-14	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	4.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUL-14	Finding:	8.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	18-JUL-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUL-14	Finding:	1000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JAN-14	Finding:	8.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	30-JAN-14	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JAN-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JAN-14	Finding:	0.59
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JAN-14	Finding:	4.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JAN-14	Finding:	8.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-SEP-13	Finding:	4.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-JUL-13	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-JUL-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	1000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JUL-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	19-JUL-13	Finding:	640.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	260.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	83.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-JUL-13	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-JUL-13	Finding:	150.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	19-JUL-13	Finding:	7.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	19-JUL-13	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	8.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	19-JUL-13	Finding:	5.5e-002
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-JUL-13	Finding:	4.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-APR-13	Finding:	4.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-APR-13	Finding:	8.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-APR-13	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	7.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	18-OCT-12	Finding:	170.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-OCT-12	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-OCT-12	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	18-OCT-12	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-OCT-12	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	34.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	96.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	290.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	650.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	18-OCT-12	Finding:	9.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-OCT-12	Finding:	4.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-OCT-12	Finding:	1100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	18-OCT-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	8.4e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-OCT-12	Finding:	5500.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	13-SEP-12	Finding:	4.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	10-AUG-12	Finding:	4.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-AUG-12	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	440.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	9.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	6.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	10-AUG-12	Finding:	7.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	10-AUG-12	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		

Sample date:	10-AUG-12	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-AUG-12	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-AUG-12	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	10-AUG-12	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	31.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	88.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	270.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	650.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	10-AUG-12	Finding:	1100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-MAY-12	Finding:	8.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAY-12	Finding:	5.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	24-MAY-12	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-MAY-12	Finding:	4.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	24-MAY-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

BB281
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000140799**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13G002S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	415
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

BF282
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000021753**

Well ID:	3310031-037	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 56-1	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-037&store_num=		
GeoTracker Data:	Not Reported		

BF283
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000221**

Well ID:	3310031-037	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 56-1	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-037&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

BF284
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00011115**

Well ID:	USGS-340508117150401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340508117150401	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-340508117150401&store_num=		
GeoTracker Data:	Not Reported		

BF285
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000001623**

Well ID:	85283	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	85283	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=85283&store_num=		
GeoTracker Data:	Not Reported		

286
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140896**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W14D001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	19540101	Well Depth:	170
Well Depth Units:	ft	Well Hole Depth:	170
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1954-02-26
Feet below surface:	2.17	Feet to sea level:	Not Reported
Note:	Not Reported		

BF287
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00016453**

Well ID:	USGS-340507117150302	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340507117150302	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-340507117150302&store_num=		

GeoTracker Data: Not Reported

BD288
WSW **CA WELLS** **CAPFAS000001615**
1/2 - 1 Mile
Lower

Well ID: 3310031-090 Well Type: MUNICIPAL
Source: Department of Health Services
Other Name: THORNE WELL 12 GAMA PFAS Testing: Yes
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-090&store_num=
GeoTracker Data: Not Reported

BD289
WSW **CA WELLS** **CADDW0000014252**
1/2 - 1 Mile
Lower

Well ID: 3310031-090 Well Type: MUNICIPAL
Source: Department of Health Services
Other Name: THORNE WELL 12 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-090&store_num=
GeoTracker Data: Not Reported

BD290
WSW **CA WELLS** **CAUSGS000002748**
1/2 - 1 Mile
Lower

BD291
WSW **CA WELLS** **CAUSGSN00013623**
1/2 - 1 Mile
Lower

Well ID: USGS-340437117170301 Well Type: UNK
Source: United States Geological Survey
Other Name: USGS-340437117170301 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-340437117170301&store_num=
GeoTracker Data: Not Reported

BF292
ENE **CA WELLS** **CADDW0000007042**
1/2 - 1 Mile
Higher

Well ID: 3310031-035 Well Type: MUNICIPAL
Source: Department of Health Services
Other Name: GAGE WELL 46-1 - INACTIVE GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-035&store_num=

GeoTracker Data: Not Reported

BF293
ENE **FED USGS** **USGS40000140795**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W13G003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	1126
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

BD294
WSW **FED USGS** **USGS40000140660**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W22B006S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	Cenozoic Erathem	Aquifer Type:	Unconfined single aquifer
Construction Date:	19600223	Well Depth:	654
Well Depth Units:	ft	Well Hole Depth:	654
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	2004-06-30
Feet below surface:	33.4	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2000-03-12	Feet below surface:	28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-02	Feet below surface:	41.00
Feet to sea level:	Not Reported	Note:	Not Reported

BG295
ESE **FED USGS** **USGS40000140611**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W24F003S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	508
Well Depth Units:	ft	Well Hole Depth:	508
Well Hole Depth Units:	ft		

BG296
ESE **FED USGS** **USGS40000140612**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W24F005S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	568
Well Depth Units:	ft	Well Hole Depth:	568
Well Hole Depth Units:	ft		

297
ESE **CA WELLS** **CADDW0000014572**
1/2 - 1 Mile
Higher

Well ID:	3610013-010	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	RICHARDSON ST. WELL 02 - Destroyed		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610013-010&store_num=		
GeoTracker Data:	Not Reported		

BF298
ENE **CA WELLS** **CAPFAS000000777**
1/2 - 1 Mile
Higher

Well ID:	3310031-164	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 46-1R	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-164&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
BF299 ENE 1/2 - 1 Mile Higher	**CA WELLS**	**CADDW0000002044**

Well ID:	3310031-164	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GAGE WELL 46-1R	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-164&store_num=		
GeoTracker Data:	Not Reported		

1G North 1/2 - 1 Mile Lower	Site ID:	083601353T	**AQUIFLOW**	**52045**
	Groundwater Flow:	SSE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	36.29		
	Date:	03/25/1999		

2G West 1/2 - 1 Mile Lower	Site ID:	083601117T	**AQUIFLOW**	**50208**
	Groundwater Flow:	WSW		
	Shallow Water Depth:	25 ft		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	10/05/1998		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SAN BERNARDINO County: 2

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 SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.678 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 and 2010 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.

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.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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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Gateway South Building 9 Assemblage

707 East Norman Road

San Bernardino, CA 92408

Inquiry Number: 6958905.3

April 28, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/28/22

Site Name:

Gateway South Building 9 Asse
707 East Norman Road
San Bernardino, CA 92408
EDR Inquiry # 6958905.3

Client Name:

GeoSyntec Consultants
16644 West Bernardo Drive SUITE 301
SAN DIEGO, CA 92127
Contact: Jackie Hyman

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F317-4B58-BAE1

PO # NA

Project SC1256

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: F317-4B58-BAE1

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Gateway South Building 9 Assemblage

707 East Norman Road

San Bernardino, CA 92408

Inquiry Number: 6958905.4

April 28, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

04/28/22

Site Name:

Gateway South Building 9 Asse
707 East Norman Road
San Bernardino, CA 92408
EDR Inquiry # 6958905.4

Client Name:

GeoSyntec Consultants
16644 West Bernardo Drive SUITE 301
SAN DIEGO, CA 92127
Contact: Jackie Hyman

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by GeoSyntec Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: SC1256

Coordinates:

Latitude:	34.080581 34° 4' 50" North
Longitude:	-117.267997 -117° 16' 5" West
UTM Zone:	Zone 11 North
UTM X Meters:	475274.42
UTM Y Meters:	3771123.10
Elevation:	1036.90' above sea level

Maps Provided:

2018	1943
2015	1942
2012	1938
1980	1901
1975	1898, 1899
1973	1896
1967	
1954	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



San Bernardino South
2018
7.5-minute, 24000

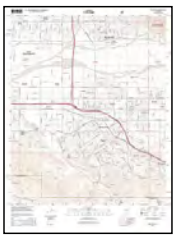


Redlands
2018
7.5-minute, 24000

2015 Source Sheets



San Bernardino South
2015
7.5-minute, 24000



Redlands
2015
7.5-minute, 24000

2012 Source Sheets



San Bernardino South
2012
7.5-minute, 24000



Redlands
2012
7.5-minute, 24000

1980 Source Sheets



San Bernardino South
1980
7.5-minute, 24000
Aerial Photo Revised 1979



Redlands
1980
7.5-minute, 24000
Aerial Photo Revised 1978

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1975 Source Sheets

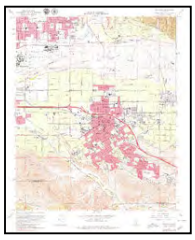


Redlands
1975
7.5-minute, 24000
Aerial Photo Revised 1975



San Bernardino South
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1973 Source Sheets

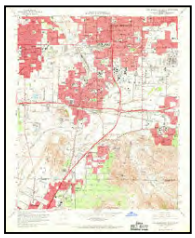


Redlands
1973
7.5-minute, 24000
Aerial Photo Revised 1973

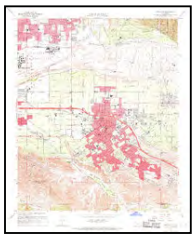


San Bernardino South
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1967 Source Sheets

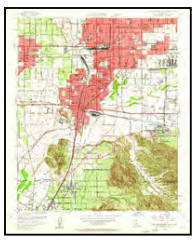


San Bernardino South
1967
7.5-minute, 24000
Aerial Photo Revised 1966



Redlands
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets



San Bernardino South
1954
7.5-minute, 24000
Aerial Photo Revised 1952



Redlands
1954
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



Colton
1943
7.5-minute, 31680

1942 Source Sheets



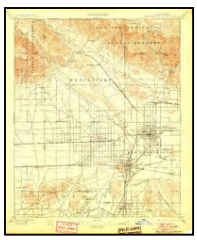
SAN BERNARDINO
1942
15-minute, 50000

1938 Source Sheets



Colton
1938
7.5-minute, 31680

1901 Source Sheets



San Bernardino
1901
15-minute, 62500



Redlands
1901
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1898, 1899 Source Sheets



San Bernardino
1898
15-minute, 62500



Redlands
1899
15-minute, 62500

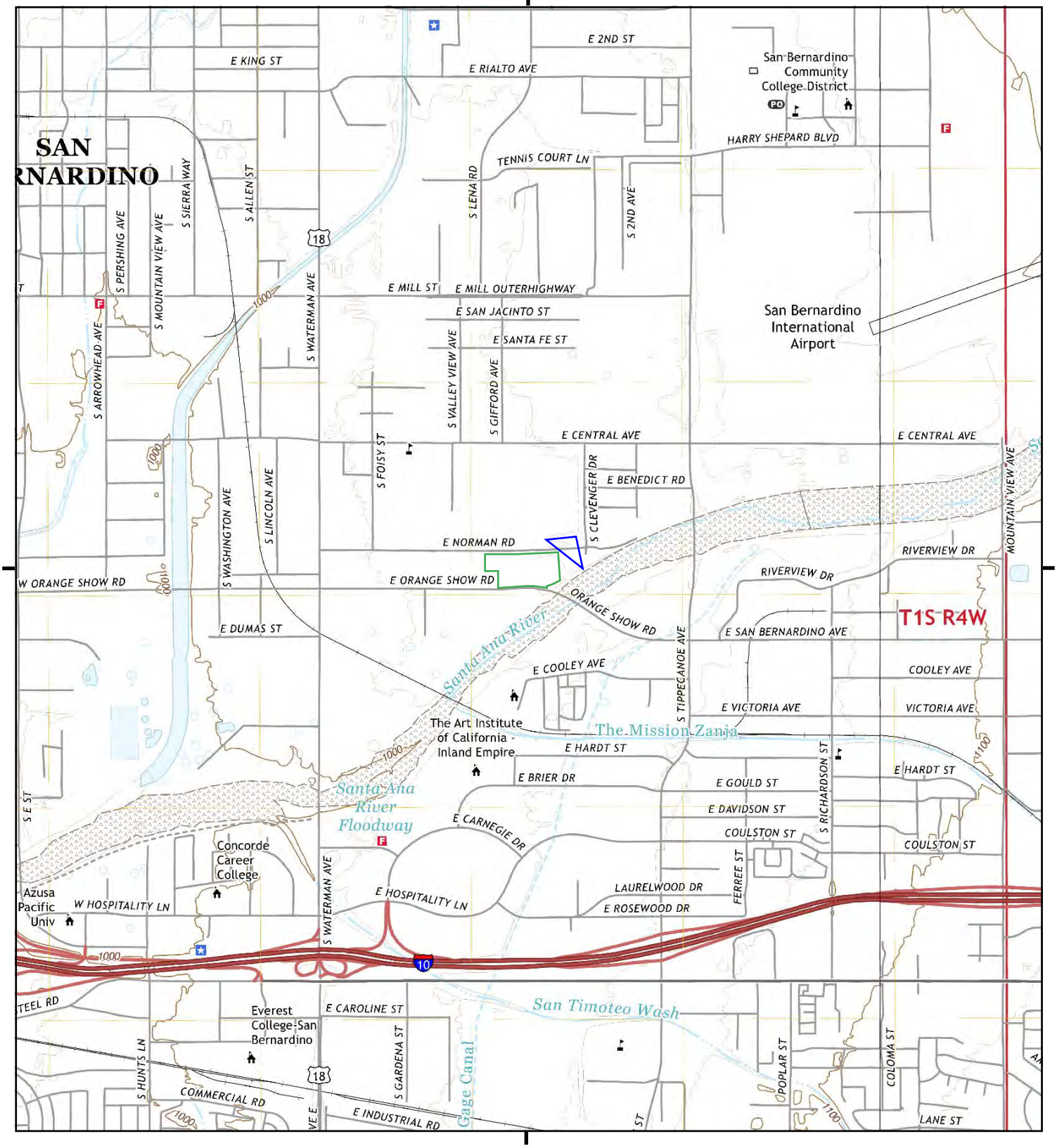
1896 Source Sheets



San Bernardino
1896
15-minute, 62500

Historical Topo Map

2018



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

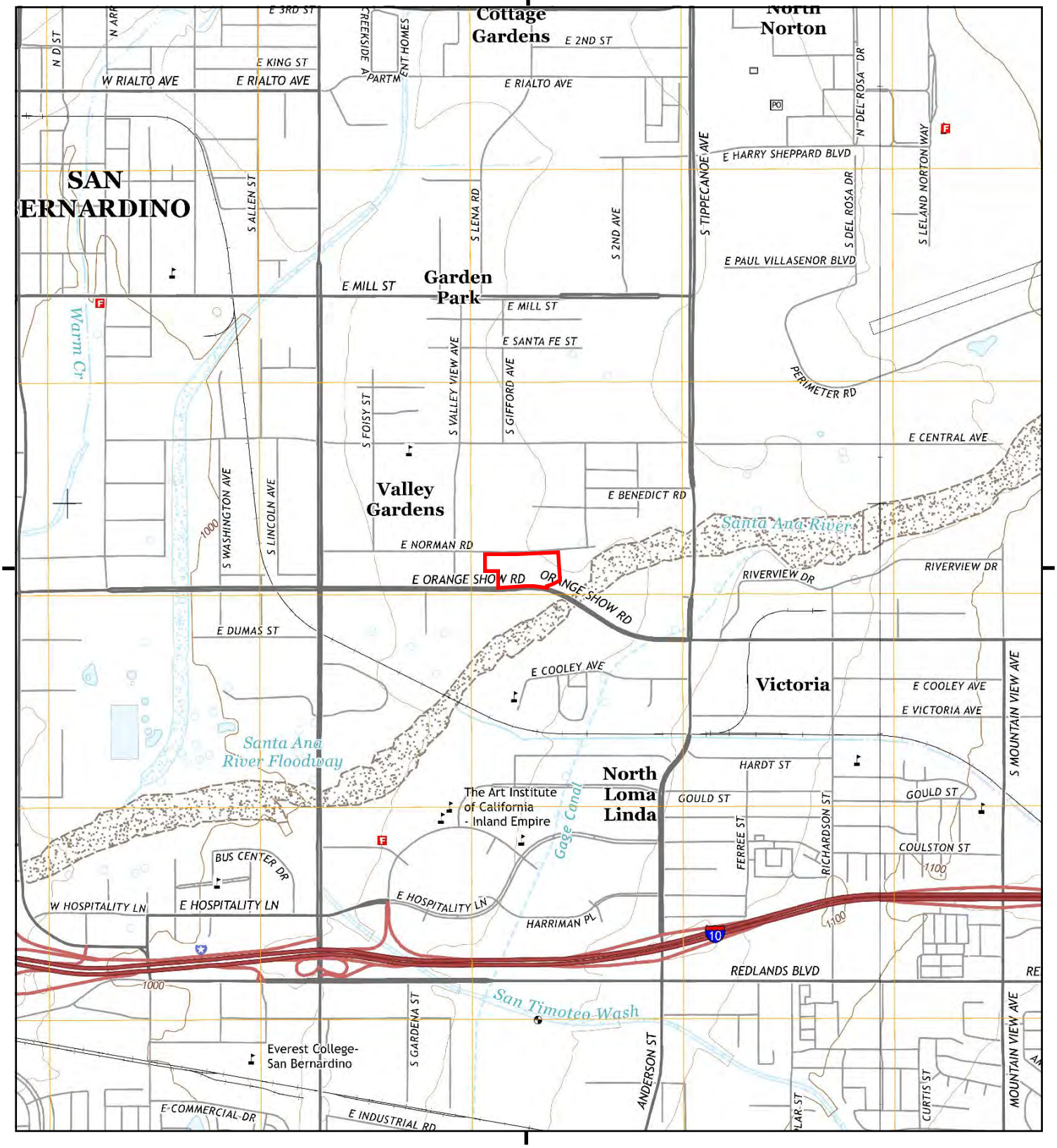
TP, San Bernardino South, 2018, 7.5-minute
E, Redlands, 2018, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

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

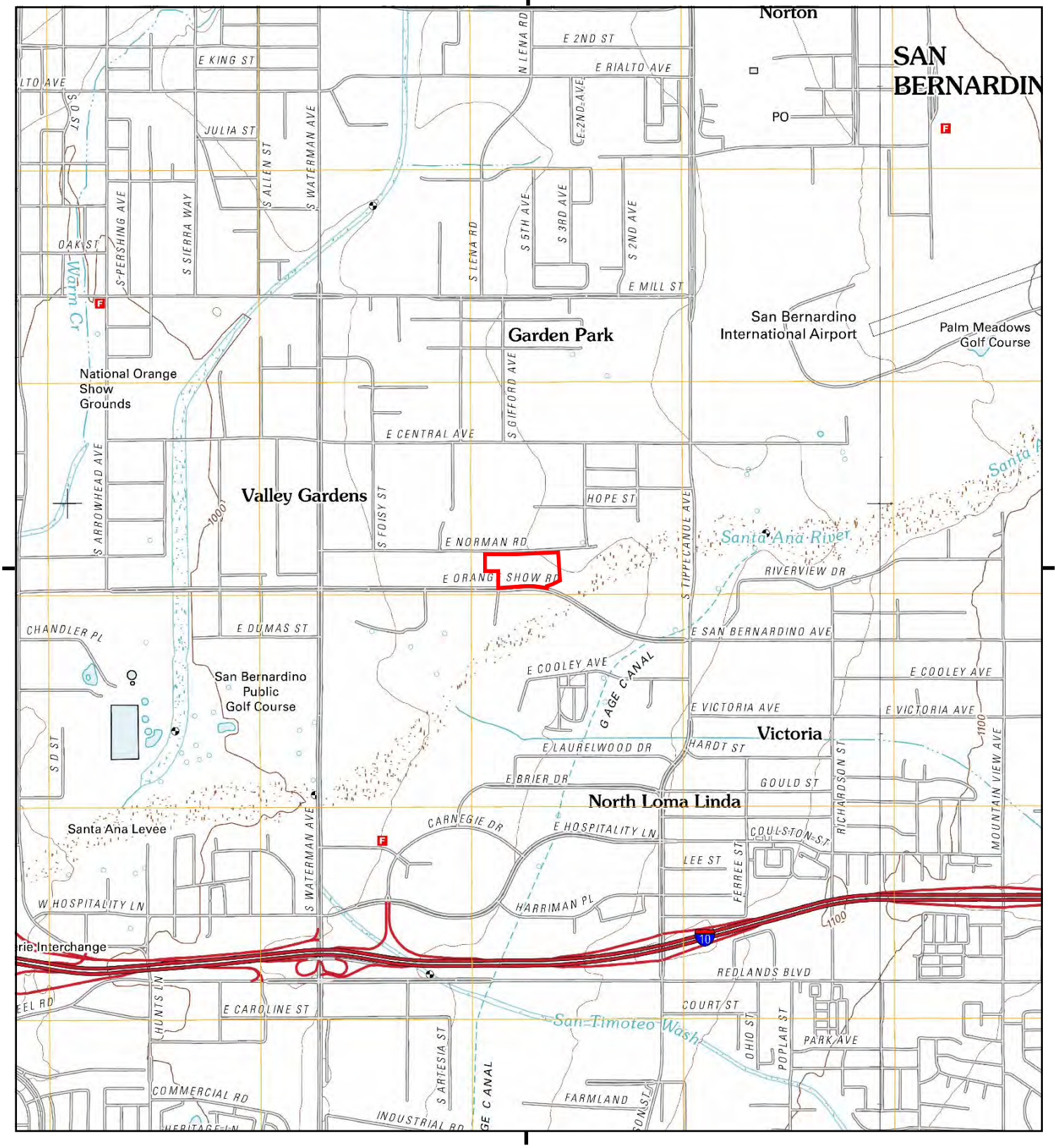
TP, San Bernardino South, 2015, 7.5-minute
E, Redlands, 2015, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

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

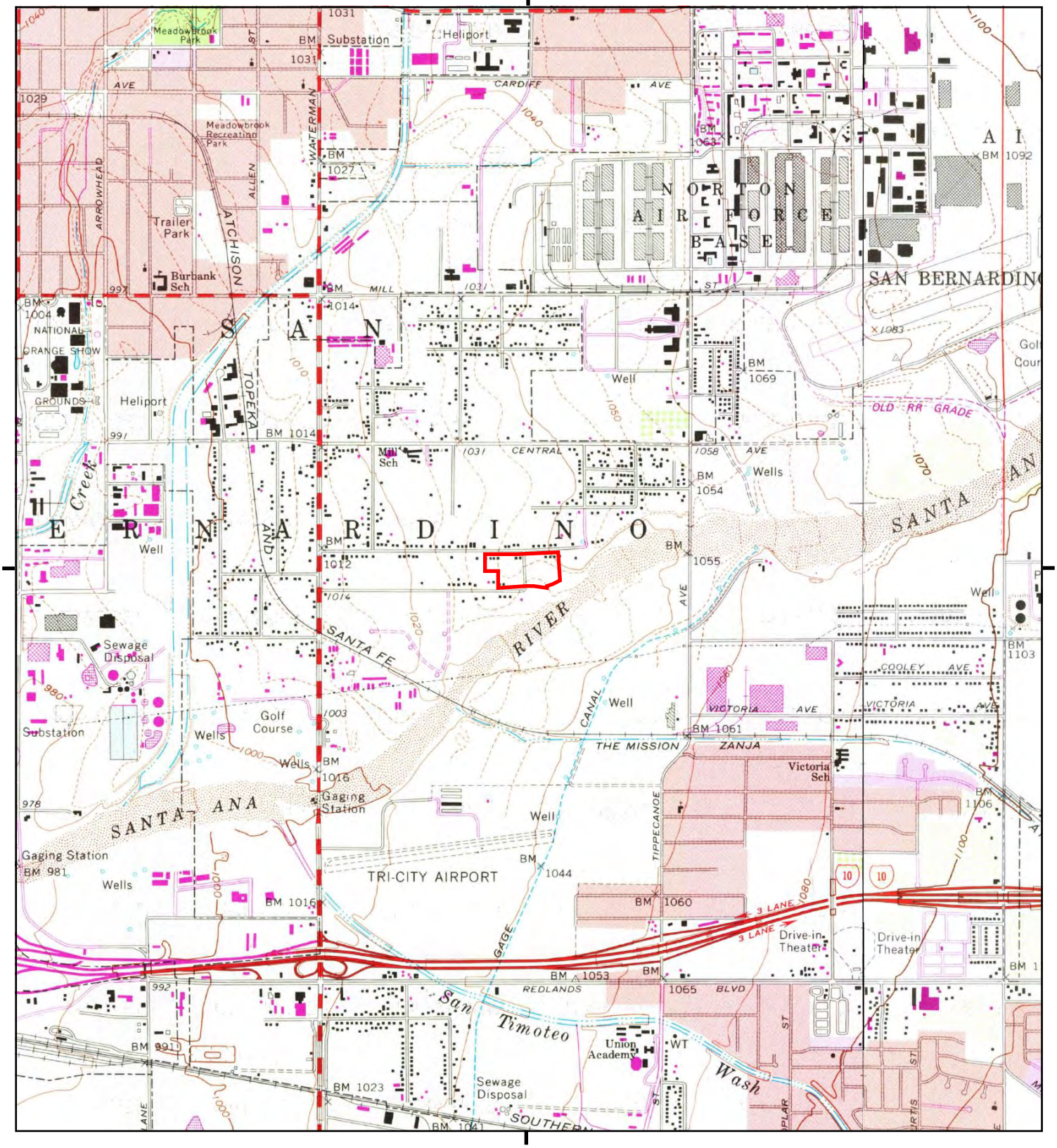
TP, San Bernardino South, 2012, 7.5-minute
E, Redlands, 2012, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N

Historical Topo Map

1980



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

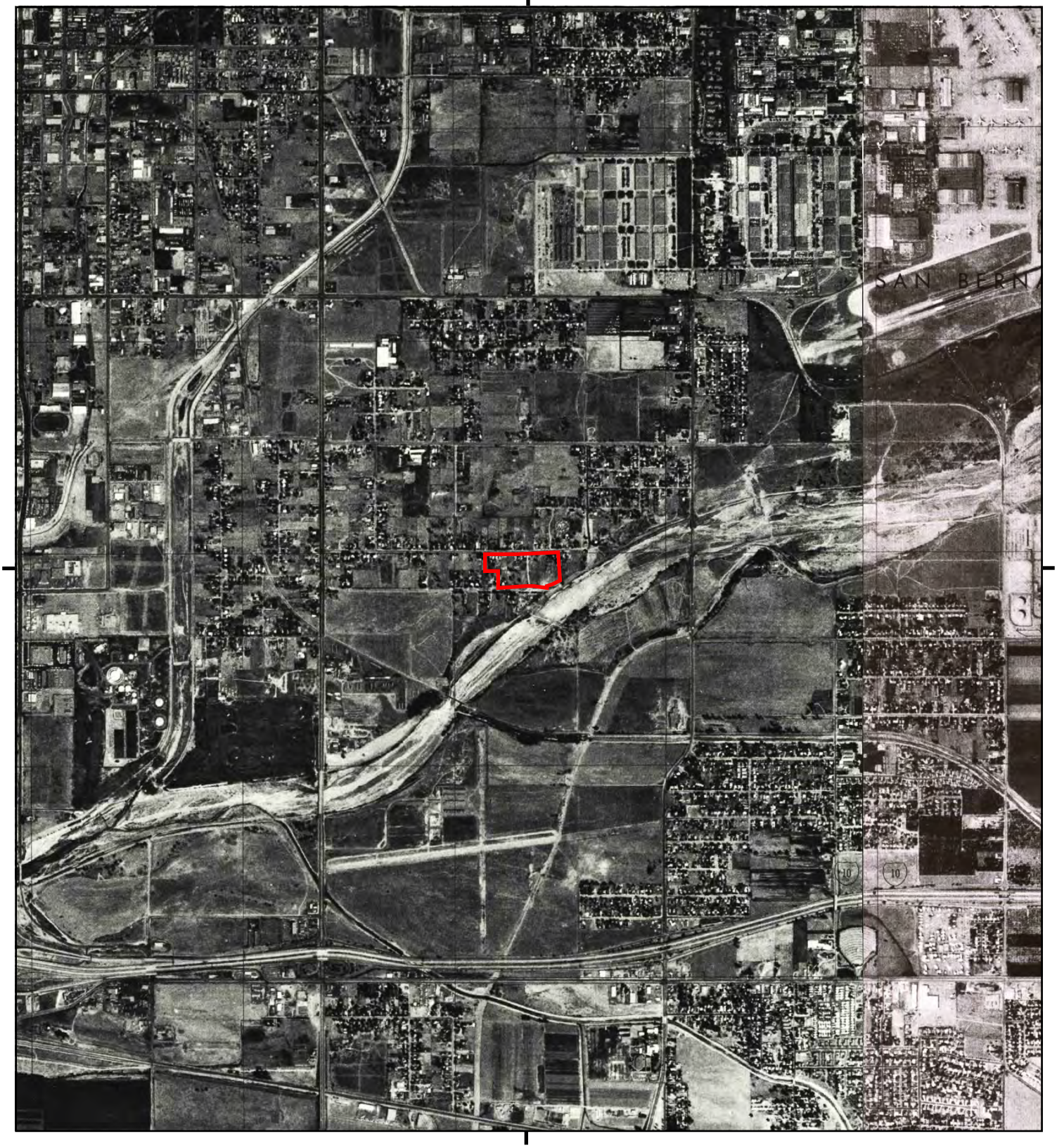
TP, San Bernardino South, 1980, 7.5-minute
E, Redlands, 1980, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N

Historical Topo Map

1975



This report includes information from the following map sheet(s).

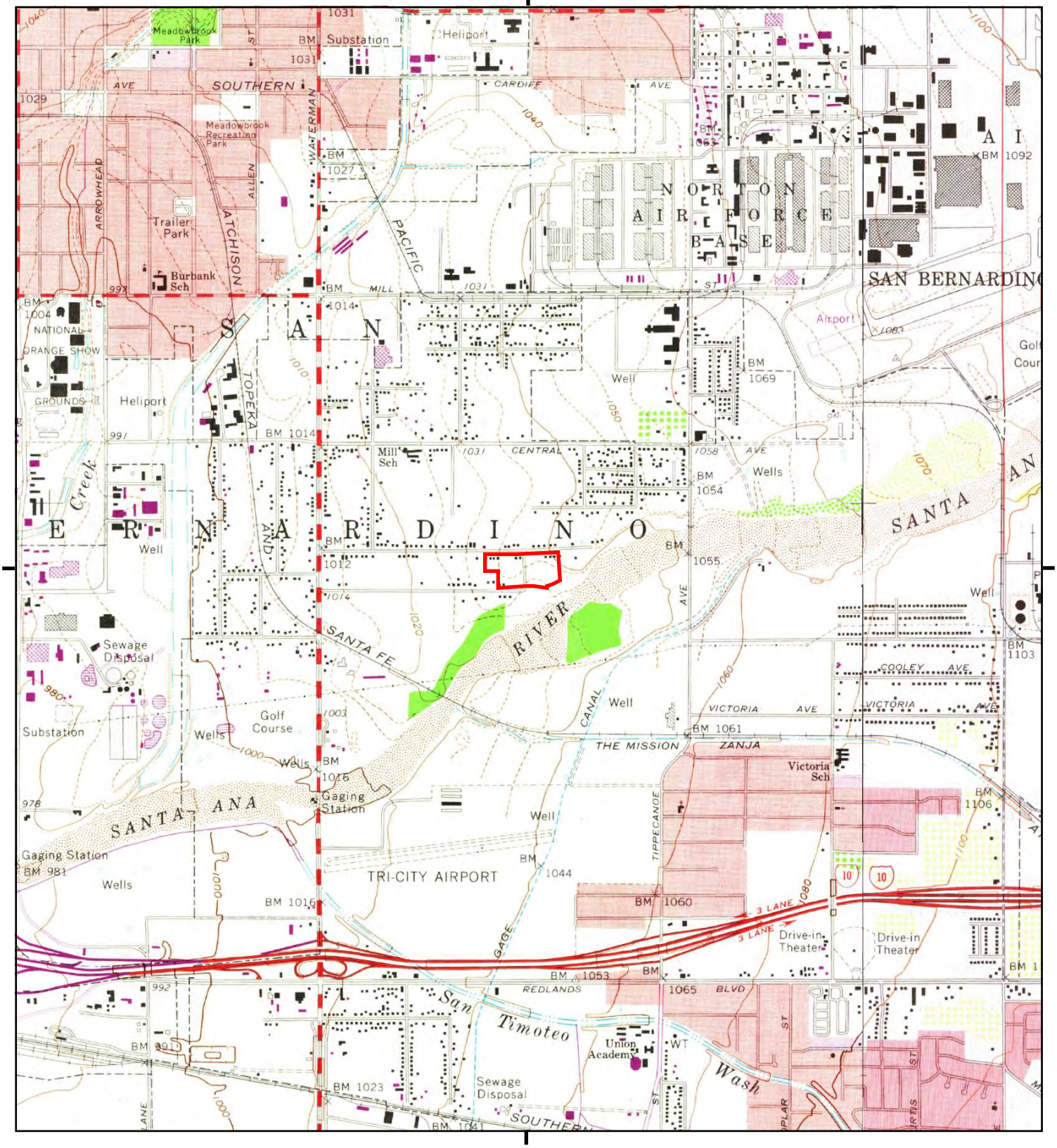
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Bernardino South, 1975, 7.5-minute
E, Redlands, 1975, 7.5-minute

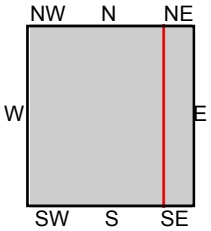
SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N



This report includes information from the following map sheet(s).

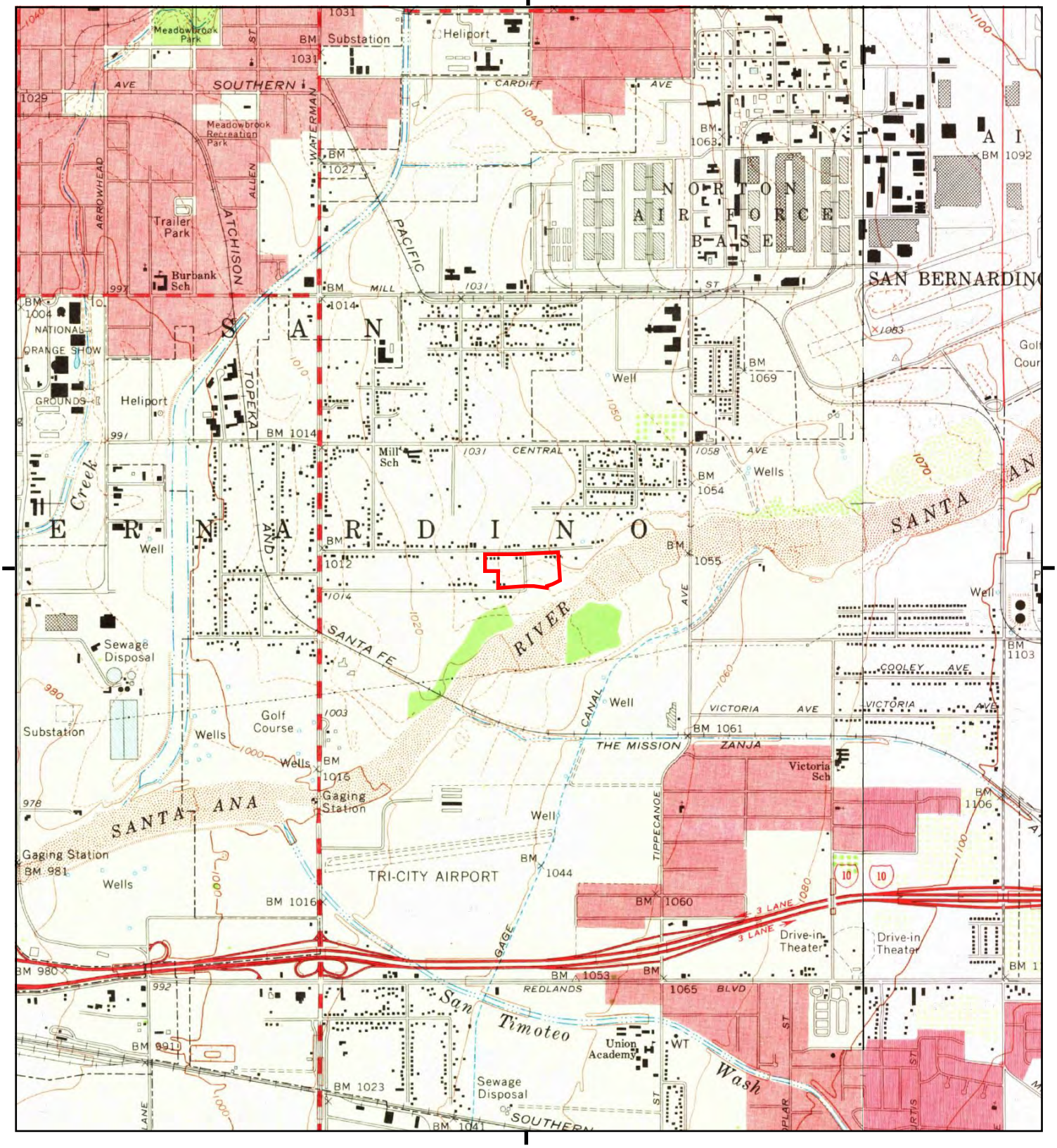
0 Miles 0.25 0.5 1 1.5



TP, San Bernardino South, 1973, 7.5-minute
E, Redlands, 1973, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

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

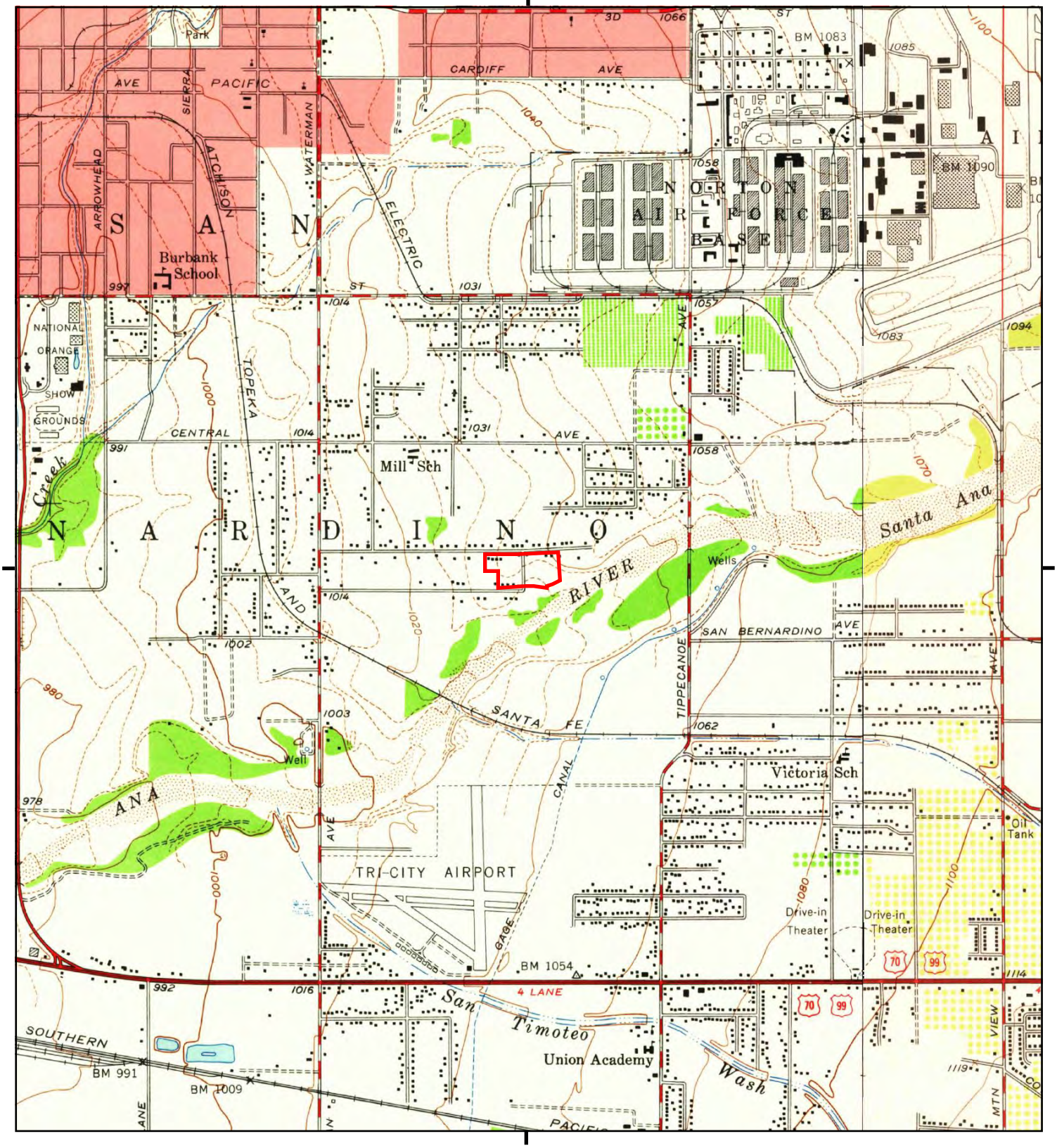
TP, San Bernardino South, 1967, 7.5-minute
E, Redlands, 1967, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

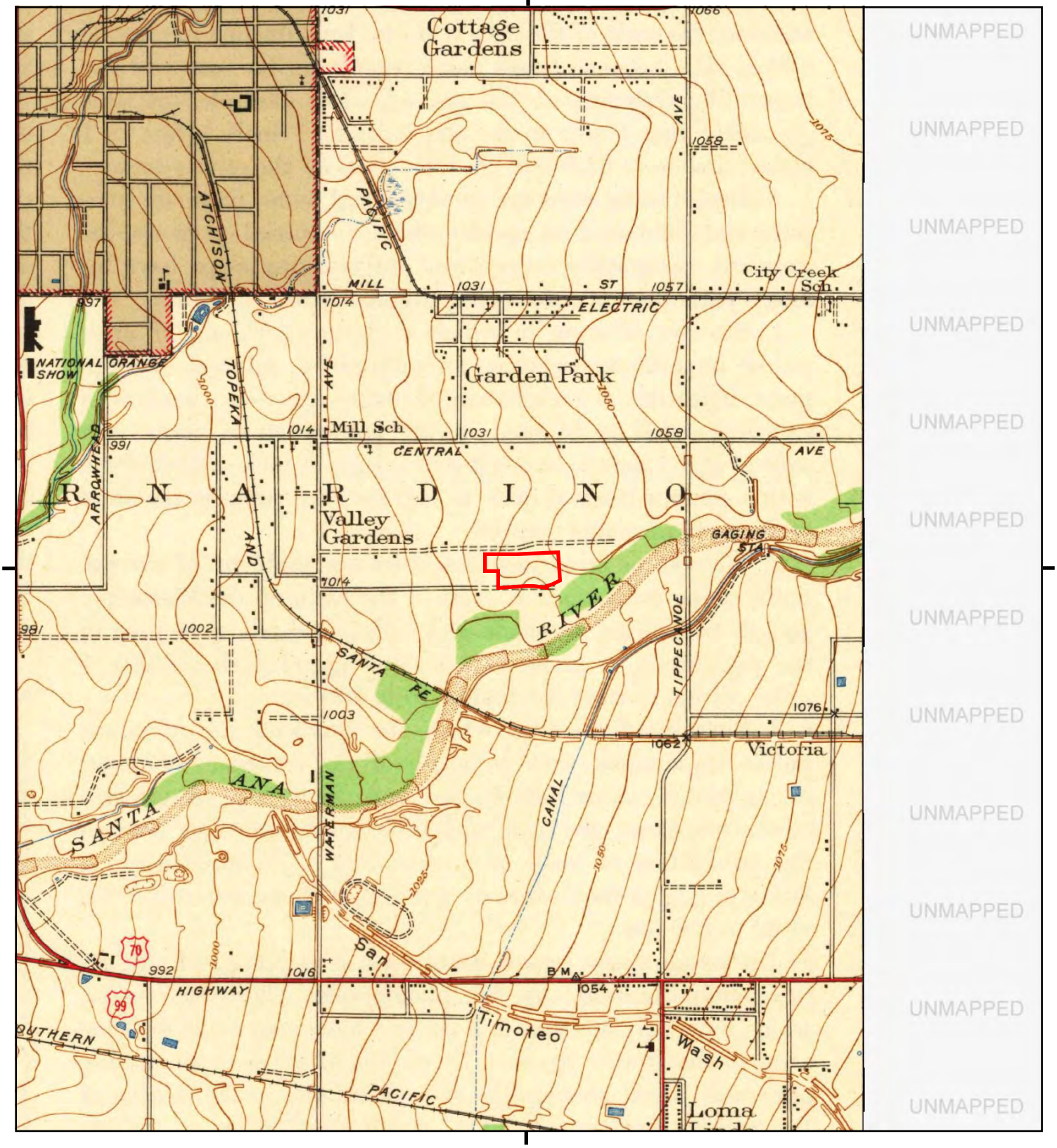
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Bernardino South, 1954, 7.5-minute
E, Redlands, 1954, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N



This report includes information from the following map sheet(s).

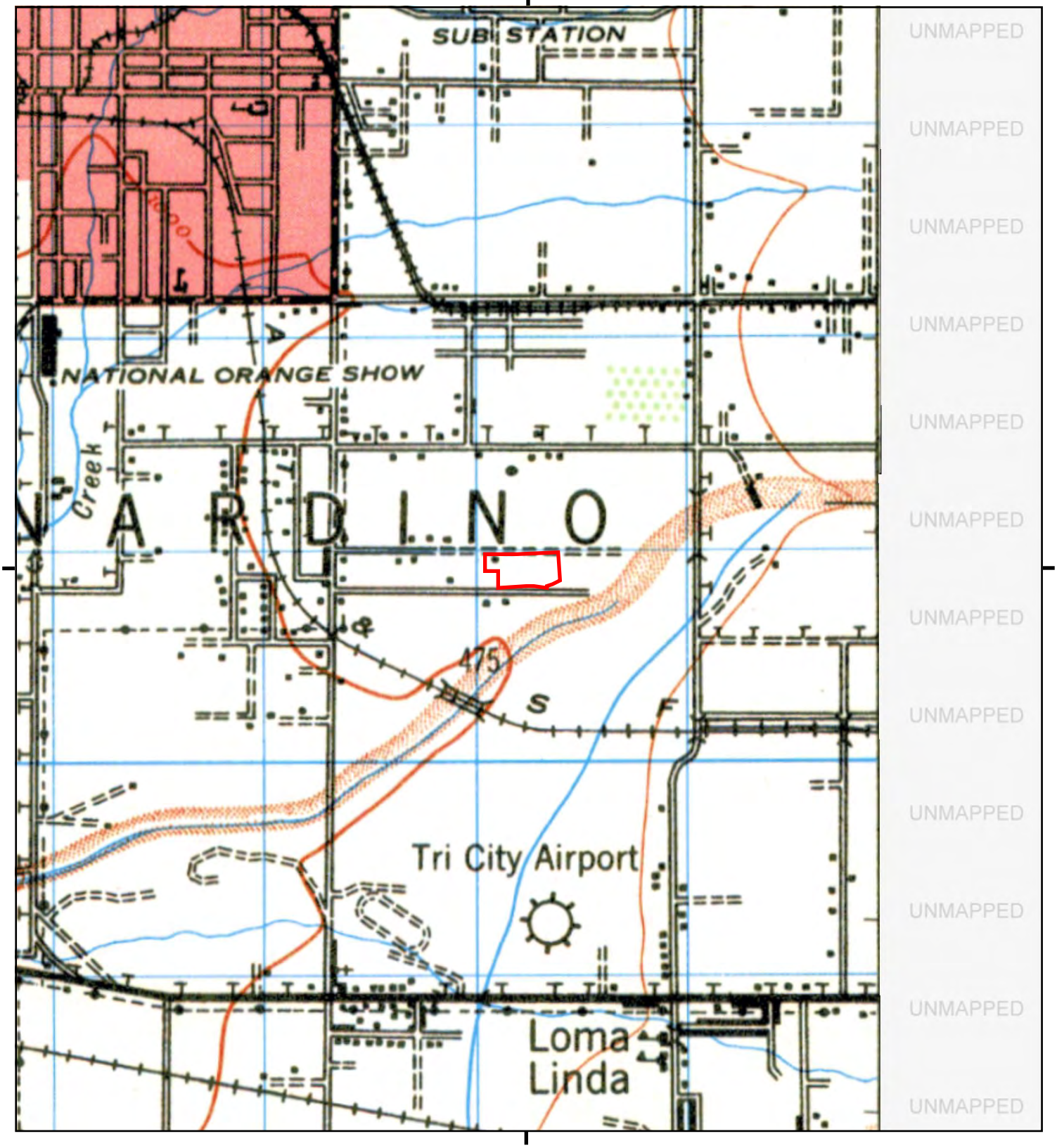
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Colton, 1943, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N



This report includes information from the following map sheet(s).

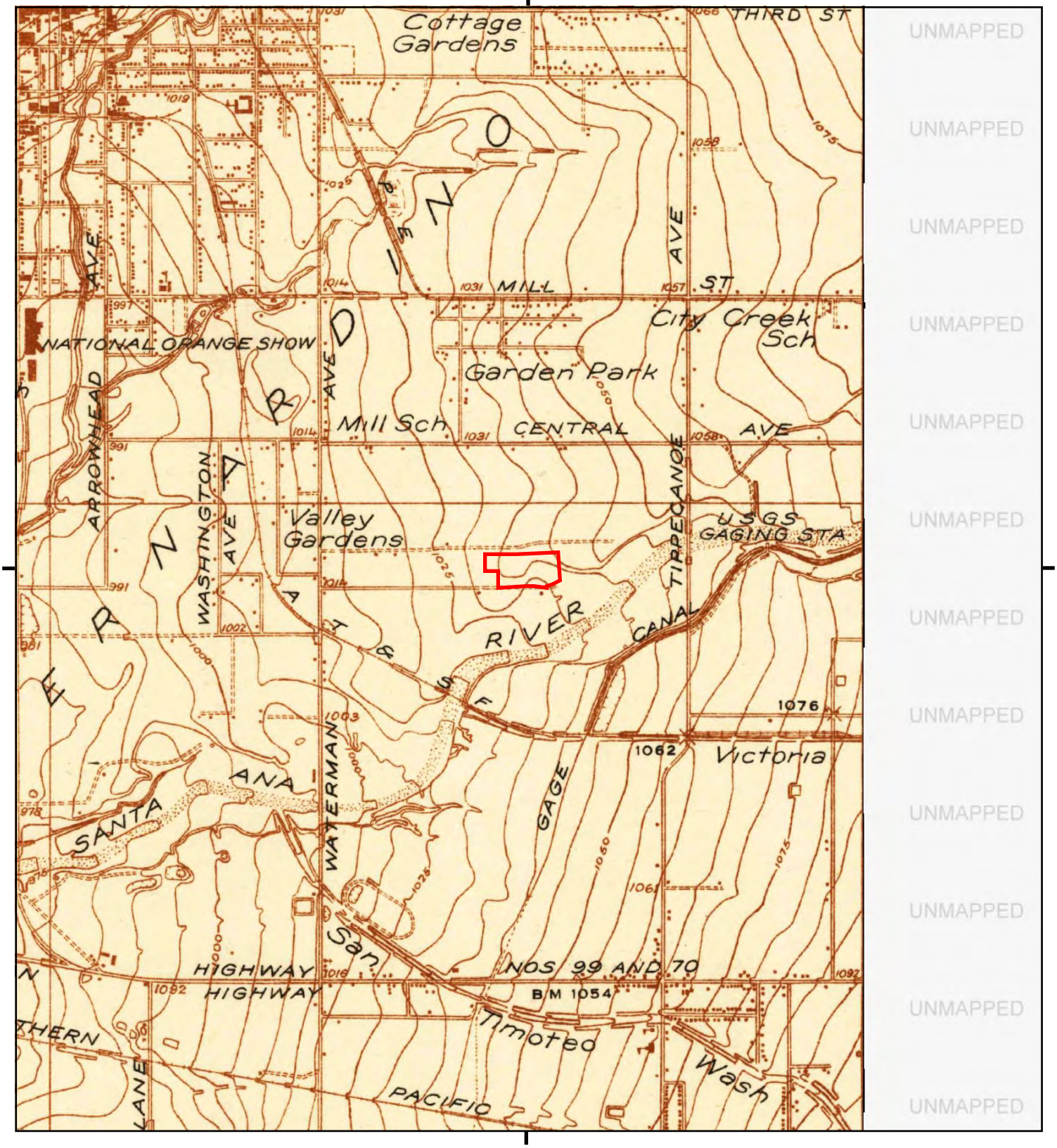
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, SAN BERNARDINO, 1942, 15-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N



This report includes information from the following map sheet(s).

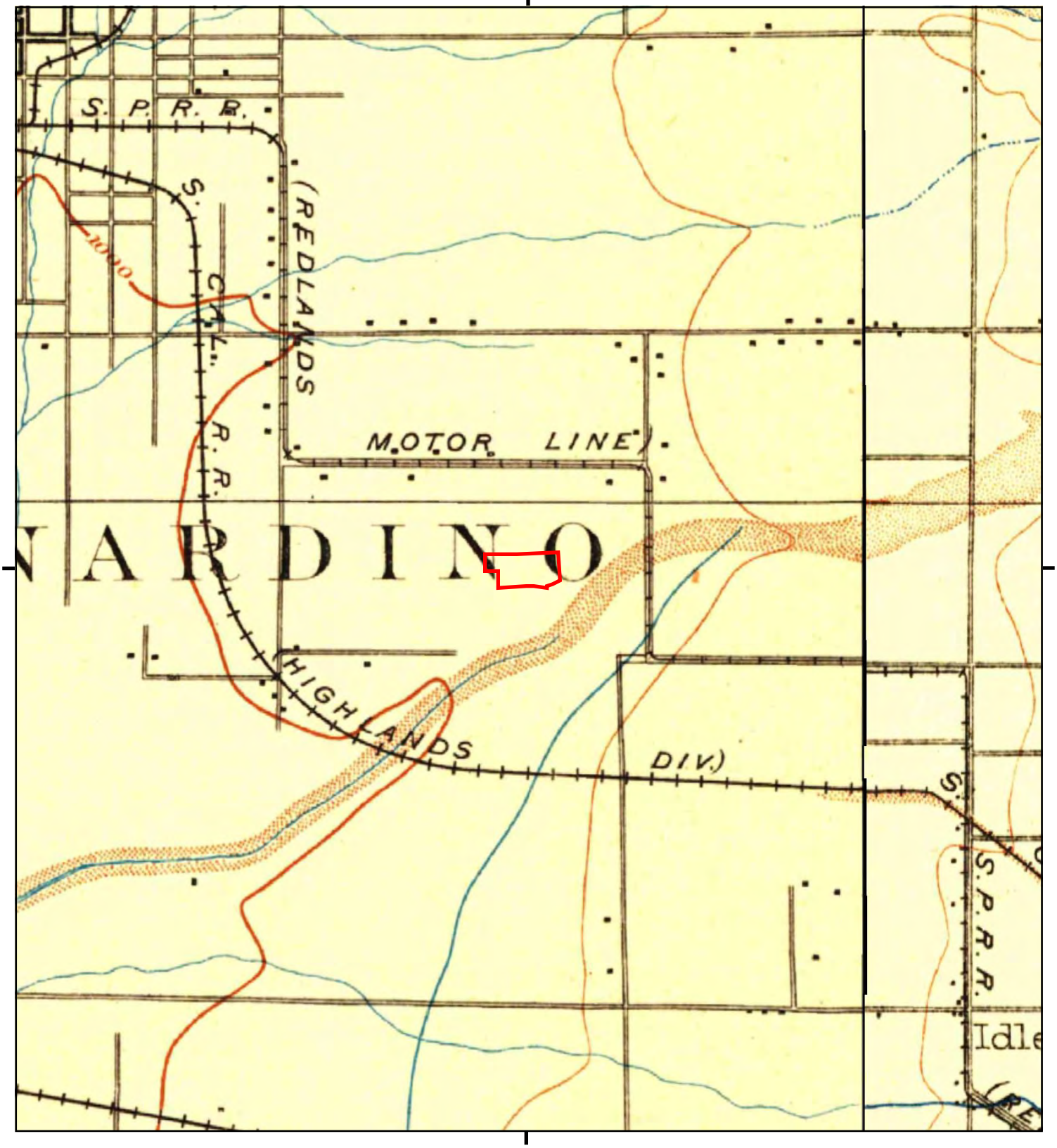
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Colton, 1938, 7.5-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N



This report includes information from the following map sheet(s).

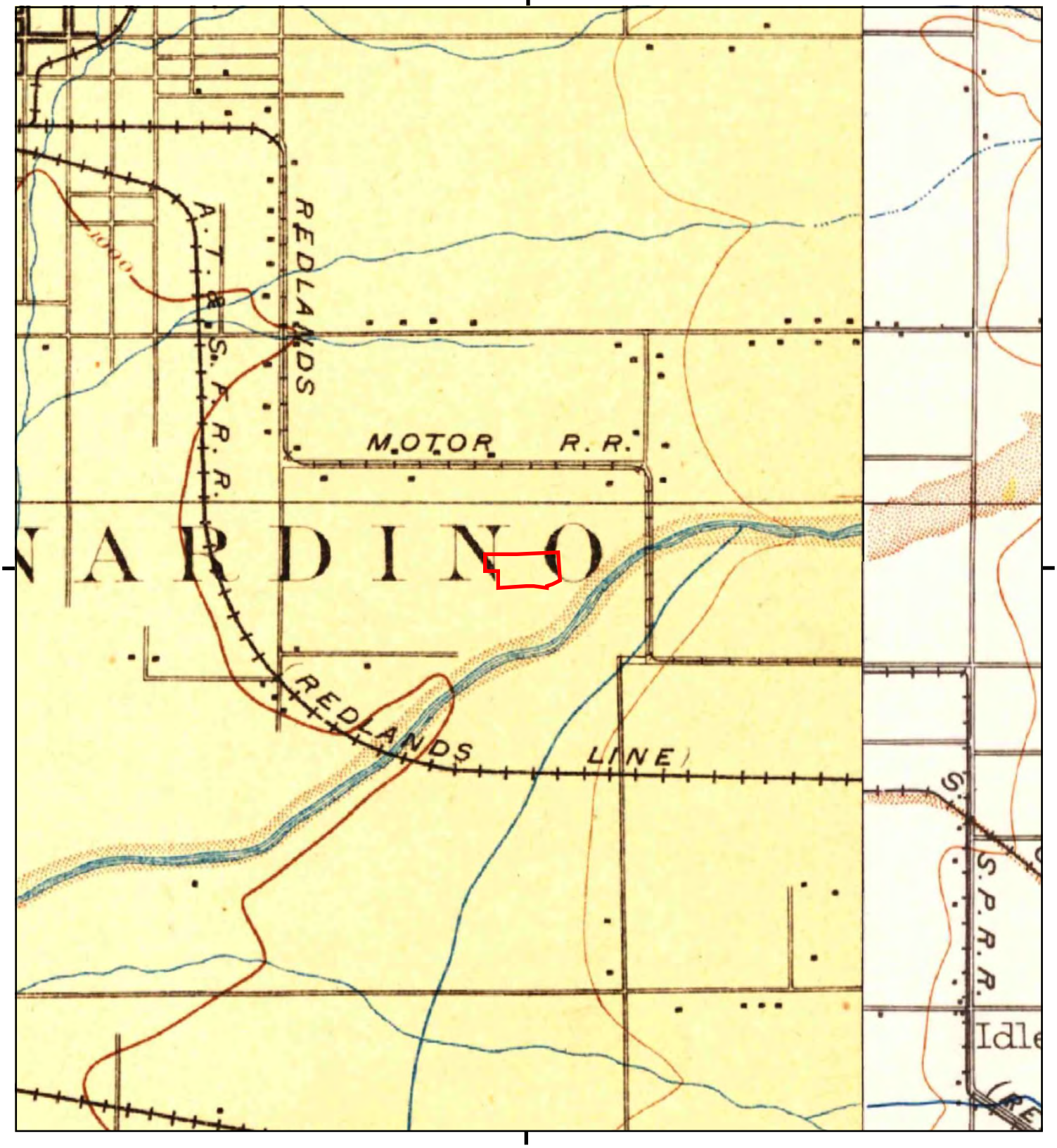
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Bernardino, 1901, 15-minute
E, Redlands, 1901, 15-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N



This report includes information from the following map sheet(s).

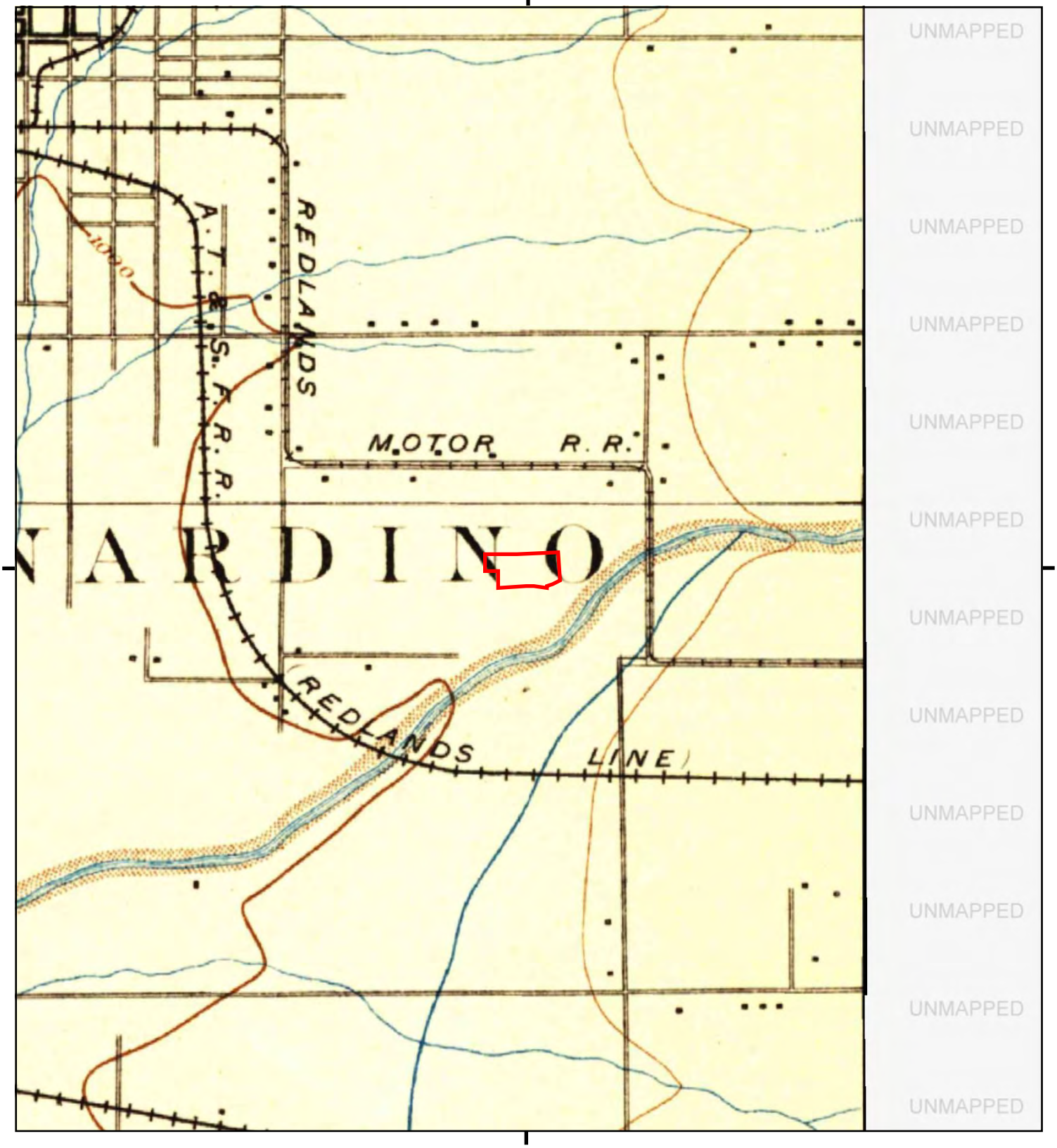
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Bernardino, 1898, 15-minute
E, Redlands, 1899, 15-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

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, San Bernardino, 1896, 15-minute

SITE NAME: Gateway South Building 9 Assemblage
ADDRESS: 707 East Norman Road
San Bernardino, CA 92408
CLIENT: GeoSyntec Consultants

N

APPENDIX C
User-Provided Documents (Empty)

APPENDIX D
Regulatory or Agency Files

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 12, 2022

Project Name: San Bernardino

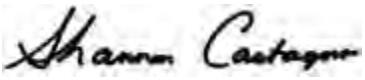
Geosyntec Consultants
2355 Northside Drive, Suite 250
San Diego, CA 92108

Attention: Emily Glensky

Dear Ms. Glensky,

Attached is the Environmental (Hazardous/Toxic Waste) Records Search Summary of the 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road ("San Bernardino") site located in San Bernardino, California. Environmental Support Services ("**ESS**") received the request on April 29, 2022 (See Appendix A). Should you have any questions regarding the summary, please call.

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Records Search Summary

Company:	Geosyntec Consultants
Project Name:	San Bernardino
Attention:	Emily Glensky
Street Address of Property:	695, 707, 715, 755, 787, 807, 823 & 867 East Norman Rd., 24512 Pioneer Avenue and 788 East Orange Show Road San Bernardino, CA 92408 APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211

San Bernardino County Fire Department

E-mailed request: 5-2-22, Contact: Maria Molina/Donn Juday

ESS submitted a request for a records search concerning the San Bernardino site to Ms. Molina/Ms. Juday, with the San Bernardino County Fire Department (See Appendix B). **ESS** requested information concerning the utilization, manufacture, storage and/or discharge of hazardous materials/waste, and any information concerning previous or on-going site investigations/remediations pertaining to hazardous materials/waste. Donna Juday, with that department informed **ESS** on May 3, 2022 that her department had no records for 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix B).

Department of Toxic Substances Control (DTSC) – Cypress Office

E-mailed request: 5-2-22, Contact: Julie Johnson/Jone Barrio

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that Ms. Johnson/Ms. Barrio, with the DTSC, check the file room records for any files/information concerning 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix C). Ms. Johnson, with that department informed **ESS** on May 4, 2022 that her department had no files/information concerning that site (See Appendix C).

Department of Toxic Substances Control (DTSC) – Chatsworth Office

E-mailed request: 5-2-22, Contact: Robert Hardison

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that Mr. Castillo/Mr. Hardison, with the DTSC, check the file room records for any files/information concerning 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix D). Mr. Hardison, with that department informed **ESS** on May 6, 2022 that his department had no files/information concerning that site (See Appendix D). He referred **ESS** to the DTSC – Emergency Response Unit (See Appendix D). Adam Palmer, with that department informed **ESS** May 11, 2022 that his department only had records for 787 East Norman Road, San Bernardino, CA (See Appendix D).

Cal Fire - Office of the State Fire Marshal

On-line request: 5-2-22, Contact: Pubic Records Request

ESS requested that the Public Records Section, with Cal Fire - Office of the State Fire Marshal, check their records concerning the storage of hazardous materials/waste, pipelines and underground storage tanks with regards to the following: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix E) Maggie Jones, with that department informer **ESS** May 5, 2022 that her department only had records for 787 East Norman Road, San Bernardino, CA (See Appendix E).

City of San Bernardino Fire Department

On-line request: 5-2-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of San Bernardino Fire Department, check their records concerning the storage of hazardous materials/waste and underground storage tanks with regards to the following: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix F). Sylvia Bautista, with that department informed **ESS** May 5, 2022 that the lead agency for sites in the City of San Bernardino would be the San Bernardino County Fire Department (See above) (See Appendix F).

City of San Bernardino Department of Public Works

On-line request: 5-2-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of San Bernardino Public Works Department, check their records for any information concerning industrial waste discharge permits or violations for 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix G). Sylvia Bautista, with that department informed **ESS** May 11, 2022 she needed an extension to May 25, 2022 to complete **ESS'** request (See Appendix G).

City of San Bernardino Building Department

On-line request: 5-2-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of San Bernardino Building Department, provide the building records (all permits and certificates of occupancy) for 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix H). Sylvia Bautista, with that department provided **ESS** May 3, 2022 with all the available building records for the addresses (See Appendix H for copies). No further information concerning the site was obtained from the building department at the time of the investigation.

South Coast Air Quality Management District (SCAQMD)

On-line request: 5-2-22, Contact: Public Records Section

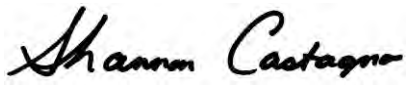
ESS submitted a search request concerning active, inactive and sold files concerning 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA to the Public Records Section at the SCAQMD (See Appendix I). Michelle Card, with that department informed **ESS** May 5, 2022 that her department had no records for 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix I).

Regional Water Quality Control Board (RWQCB) – Santa Ana Region

E-mailed request: 5-2-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the RWQCB, provide the files for 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix J). They informed **ESS** May 5, 2022 that their department had no records for 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, San Bernardino, CA (See Appendix J). No further information concerning the site was obtained from the RWQCB at the time of the investigation.

Records Search completed by:



Shannon Castagno
Project Manager
Environmental Support Services

The information provided in this report was obtained by a comprehensive examination of public records, public information and public servant communications. The degree of care performed by **ESS** is equivalent to that exercised by environmental companies performing similar records searches.

Appendix A

Environmental (Hazardous/Toxic Waste) Records Search
Order Form

shannon environmentalsupportservices.com

From: Emily Glensky <Emily.Glensky@Geosyntec.com>
Sent: Friday, April 29, 2022 7:00 PM
To: shannon environmentalsupportservices.com
Cc: Jackie Hyman
Subject: Record Request for Hillwood Gateway Assemblage
Attachments: Gateway Assemblage - Addresses.pdf

Hi Shannon,

Can you submit record requests to the appropriate agencies for the properties listed below? Can you also send a quote for this work? A map of our property boundary is attached.

695 E Norman Road (APN 028019202)
707 E Norman Road (APN 028019220)
715 E Norman Road (APN 028019219)
755 E Norman Road (APN 028019206)
787 E Norman Road (APN 028019207)
807 E Norman Road (APN 028020207)
823 E Norman Road (APN 028020211)
867 E Norman Road (APN 028020209)
24512 Pioneer Avenue (APN 028019213)
788 E Orange Show Road (APN 028019210)

Additional APNs with no addresses:
028020208
028019209
028019208
028019205
028019204
028019212
028019211

Thanks!

Emily Glensky
Staff Professional
Geosyntec Consultants, Inc.
Emily.Glensky@geosyntec.com
2355 Northside Dr Suite 250,
San Diego, CA 92108
619-241-9044


755 Norman, 028019206
028019208
028019209
807 Norman 028020207
823 Norman, 028020211
867 Norman, 028020209
028019204
028019205
787 Norman, 028019207
028020208
E Norman Rd
E Norman Rd
E Norman Rd
E Norman Rd
E Norman Rd
823 Norman, 028020211
695 Norman, 028019202
695 Norman, 028019202
715 Norman, 028019219
788 Orange Show 028019210
24512 Pioneer, 28019213
028019212
028019211
E Orange Show Rd
E Orange Show Rd

Appendix B

Request for Records Search to the
San Bernardino County Fire Department and
Response Obtained from that Agency

CUPA
San Bernardino County Fire Protection District • Hazardous Materials Division
620 S. E St., San Bernardino, CA 92415-0153 • (909) 386-8468 FAX (909) 386-8460
hazmatrecords@sbcfire.org

REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT

The main focus of a REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT is to determine whether there exists in San Bernardino County Fire Protection District (SBCFPD) any record relating to contamination or reports of spills at a particular site. An Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report should reveal whether there are any facilities at the site that are subject to current or past regulatory activity by SBCFPD, such as underground storage tanks, hazardous material handlers, hazardous waste generators, and CalARP facilities, as well as any reports of spills, incidents, complaints, or cleanup activity, which can be a useful tool in providing a history of compliance or non-compliance.

Once SBCFPD has completed its records search, an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report will be prepared and issued. Such report will detail all SBCFPD records associated with a particular site by type, date, location, and status (where applicable). All files identified in an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report can be made available for copies and/or review upon request.

If the completed records search reveals no SBCFPD record of hazardous material activity at the site, an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report will be issued, noting that "no records" were identified.

Please provide a specific site address or location description. If a situs address does not exist or cannot be found, list another type of location identifier such as Assessor Parcel Number (preferable), cross streets or intersections (e.g., NWC 5th Ave. & Main St.), and/or legal description. If possible, please attach a map to this request form.

SITE INFORMATION		
Property Owner or Business Name	Location (Site Address and/or Assessor Parcel No.)	City/Community
	See Attached List & Map	San Bernardino, CA

Please provide your name, the company you represent, and contact information below.

NAME		*lividual, leave blank)*
MAILING ADDRESS		STATE / ZIP CODE
TELEPHONE	FAX	

Environmental Support Services
Est. 1988
Shannon Castagno
1521 Beaver Tan Court
Wake Forest, NC 27587
P) 949-429-3564
Shannon@EnvironmentalSupportServices.com

So that we may provide better service, please check one or more of the boxes below which best describe how the findings of the Env. Audit Phase 1 Certified Hazardous Materials Records Search will be used and/or your relationship to the property in question.

PURPOSE OR RELATIONSHIP TO PROPERTY

- ☐ 1. Phase I site assessment or due diligence **AT THE SITE**
- ☐ 2. Environmental professional involved with remediation **AT THE SITE**
- ☐ 3. Phase I site assessment or due diligence **NEARBY**
- ☐ 4. Environmental professional involved with remediation **NEARBY**
- ☐ 5. Proposed School Site (1/4 mi. search for AHM)
- ☐ 6. Proposed Drinking Water Well
- ☐ 7. Owner or operator of the facility or property
- ☐ 8. Potential buyer
- ☐ 9. Real Estate Agent, Lender, Appraiser
- ☐ 10. Pending escrow
- ☐ 11. Proposed redevelopment
- ☐ 12. Legal or other reason: _____

AGENCY USE

Phase 1 Certified Record Search Finding Report issued: __/__/__	Reference No:
Phase 1 Certified "No Record" Finding Report issued: __/__/__	Amount Paid:
	Receipt No.:
	Date:

** IMPORTANT –THIS PAGE MUST BE SIGNED PRIOR TO SUBMITTAL **

DISCLAIMER: While all attempts are made to provide accurate, current, and reliable information, San Bernardino County Fire Protection District *(further referred to as SBDFPD)* recognizes the possibility of human error. Therefore, SBCFPD, its officers, employees, agents and volunteers, make no representations as to the accuracy, completeness or suitability of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report and provides an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report "as is," with no warranties, express or implied, including the implied warranty of fitness for a particular purpose. In no event shall SBCFPD be liable for any damages of any nature whatsoever, arising out of the issuance of a Certified Hazardous Materials Records Search Finding Report. SBCFPD therefore assumes no liability for damages incurred directly or indirectly as a result of any errors, omissions or discrepancies in a Certified Hazardous Materials Records Search Finding Report.

RELEASE AND INDEMNIFICATION: In consideration for the issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, I hereby release and forever discharge SBCFPD, its officers, employees, agents and volunteers from any and all claims, actions, losses, damages and/or liability in connection with SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, including, but not limited to, claims that may arise due to the active or passive negligence of SBCFPD, its officers, employees, agents and volunteers.

I am familiar with the provisions of California Civil Code Section 1542, which provides as follows:

"A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

I hereby expressly waive any and all rights that I may have there under. I understand and acknowledge the significance and consequence of this specific waiver of California Civil Code Section 1542 and assume full responsibility for any injuries, damages, losses or liabilities that I may hereafter discover as possibly resulting from SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report.

In further consideration for SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, I hereby agree, for myself, my heirs, administrators, executors and assigns, that I shall indemnify, defend (with counsel approved by County) and hold harmless SBCFPD, its officers, employees, agents and volunteers from any and all claims, demands, actions or suits arising out of or in connection with SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report brought by any third party.

I have read the above terms and conditions, including the paragraphs entitled "DISCLAIMER" and "RELEASE AND INDEMNIFICATION", and by my signature below, I affirm that I understand these terms and conditions and accept them as part of my REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT.

I hereby request an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report for the location described on Page 1 of this application.

- ☐ **I am including payment of the initial fee of $136.00, for the first hour of research, by check or money order, payable to San Bernardino County Fire Protection District, or by credit card payment taken over the phone. I understand that research exceeding one hour will be billed at the rate of $136.00 for each additional hour spent by SBCFPD in completing this request.**
- ☐ **I have faxed or emailed this request and will forward payment along with the original request form within 48 hours.**

REQUESTOR'S SIGNATURE	
SIGNATURE OF REQUESTOR	DATE
Shannon Castagna	5/2/22

Rev. 05/06/2020

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and
788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)


755 Norman, 028019206
028019208
028019209
807 Norman 028020207
823 Norman, 028020211
867 Norman, 028020209
028019204
028019205
787 Norman, 028019207
028020208
E Norman Rd
E Norman Rd
E Norman Rd
E Norman Rd
E Norman Rd
823 Norman, 028020211
695 Norman, 028019202
695 Norman, 028019202
715 Norman, 028019219
788 Orange Show 028019210
24512 Pioneer, 28019213
028019212
028019211
E Orange Show Rd
E Orange Show Rd

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

620 South "E" Street ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Division
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Michael A. Horton
Fire Marshal/Deputy Fire Warden

May 3, 2022

22050202 San Bernardino RAL Environ Support Svcs

ENVIRONMENTAL SUPPORT SERVICES
1521 BEAVER TAN COURT
WAKE FOREST, NC 27587

ATTENTION: **SHANNON CASTAGNO**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
695, 707, 715, 755, 787, 797, 807, 823, and 867 EAST NORMAN ROAD; 788 EAST ORANGE SHOW ROAD; 24512 PIONEER AVENUE, SAN BERNARDINO, CALIFORNIA
APN#S: 0280-192-02-0000, 0280-192-04-0000, 0280-192-05-0000, 0280-192-06-0000, 0280-192-07-0000, 0280-192-08-0000, 0280-192-09-0000, 0280-192-10-0000, 0280-192-11-0000, 0280-192-12-0000, 0280-192-13-0000, 0280-192-19-0000, 0280-192-20-0000, 0280-202-07-0000, 0280-202-11-0000, 0280-202-08-0000, 0280-202-09-0000

This is to confirm that the OFM Hazardous Materials Division (HMD) has searched its records for any file(s) pertaining to the subject property, as described in your request, and finds that no records exist for the above site description(s).

Records maintained by OFM-HMD date back to mid-1980's. Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

Donna Juday

DONNA JUDAY
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

BOARD OF DIRECTORS

Col. Paul Cook (Ret.) — First District
Janice Rutherford — Second District
Dawn Rowe — Vice Chair, Third District
Curt Hagman — Chairman, Fourth District
Joe Baca Jr. — Fifth District

Leonard X. Hernandez
Chief Executive Officer

Appendix C

Request for Records Search to the
Department of Toxic Substances Control - Cypress Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 2, 2022

Dept of Toxic Substances Control
Cypress Office
5796 Corporate Avenue
Cypress, CA 90630

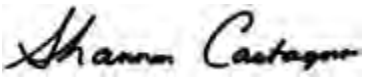
Attention: Julie Johnson/Jone Barrio

Dear Julie/Jone,

Please check for any files/information on the following site:

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and
788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Director
5796 Corporate Avenue
Cypress, California 90630

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

May 4, 2022

Shannon Castagno
ENVIRONMENTAL SUPPORT SERVICES
shannon@environmentalsupportservices.com

PR4-050222-09
695, 707, 715, 755, 787, 807, 823, 867, E NORMAN ROAD, 24512 PIONEER AVE AND 788 E ORANGE SHOW ROAD, SAN BERNARDINO, CA

Dear Requestor:

We have received your Public Records Act Request from the Department of Toxic Substances Control (DTSC). After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs Data Management System. It tracks our cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 714-4845337 or via email at CypressFileRoom@dtsc.ca.gov.

Sincerely,

Julie Johnson
Julie Johnson
Regional Records Coordinator

Appendix D

Request for Records Search to the
Department of Toxic Substances Control - Chatsworth Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 2, 2022

Dept of Toxic Substances Control
Chatsworth Office
9211 Oakdale Avenue
Chatsworth, CA

Attention: Glenn Castillo/Robert Hardison

Dear Glenn/Robert,

Please check for any files/information on the following site:

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and
788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
9211 Oakdale Avenue
Chatsworth, California 91311

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

May 6, 2022

Shannon Castagno
Environmental Support Services
Shannon@EnvironmentalSupportServices.com

Public Records Request Number: PR3-050222-05

Locations: **695, 707, 715, 755, 787, 807, 823 & 867 East Norman Rd., San Bernardino, CA 92408**
24512 Pioneer Ave., San Bernardino, CA 92408
788 East Orange Show Rd., San Bernardino, CA 92408

APNs: **028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211**

Dear Ms. Castagno:

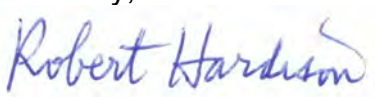
On May 2, 2022, the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

However, DTSC's Emergency Response Unit may have records that pertain to this request. This unit responds to statewide requests for emergency removals from illegal/clandestine drug labs and to other hazardous material emergencies. Please contact Adam Palmer by email at Adam.Palmer@dtsc.ca.gov or phone at 916-255-6572 if you are interested in this information.

Many of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSC's data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 818-717-6521 or via email at ChatsworthFileRoom@dtsc.ca.gov.

Sincerely,



Robert Hardison
Records Mgmt. Asst. Coordinator

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 9, 2022

Dept of Toxic Substances Control
Emergency Response Unit

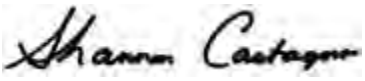
Attention: Adam Palmer

Dear Adam,

Please check for any files/information on the following site:

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and
788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

shannon environmentalsupportservices.com

From: Palmer, Adam@DTSC <Adam.Palmer@dtsc.ca.gov>
Sent: Wednesday, May 11, 2022 12:09 PM
To: shannon environmentalsupportservices.com
Cc: Thomas, Hilary@DTSC
Subject: RE: Public Records Request

Shannon,

DTSC did respond to a drug lab cleanup at 787 Norman Road in San Bernardino, CA on May 7, 2003. DTSC removed the following hazardous waste.

1. 10 oz. – base solid
2. 1 gallon – Acid
3. 2 gallons – Flammable liquid
4. 1 – 55 – gallon – Lab Trash

No soil contamination was observed.

From: shannon environmentalsupportservices.com <shannon@environmentalsupportservices.com>
Sent: Monday, May 9, 2022 11:35 AM
To: Palmer, Adam@DTSC <Adam.Palmer@dtsc.ca.gov>
Subject: Public Records Request

EXTERNAL:

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 9, 2022

Dept of Toxic Substances Control
Emergency Response Unit

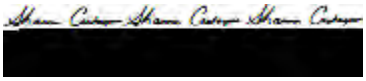
Attention: Adam Palmer

Dear Adam,

Please check for any files/information on the following site:

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and
788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Appendix E

Request for Records Search to the
Cal Fire – Office of the State Fire Marshal and
Response and Photocopies Obtained from that Agency

shannon environmentalsupportservices.com

From: CALFIRE PRA Records Center <calfire@govqa.us>
Sent: Monday, May 2, 2022 12:44 PM
To: shannon environmentalsupportservices.com
Subject: Public Records Request :: R003917-050222

RE: PUBLIC RECORDS REQUEST of 5/2/2022, Reference # R003917-050222

Dear Shannon Castagno,
Thank you for your interest in public records of the CAL FIRE. Your request has been received and is being processed in accordance with the California Public Records Act, Government Code section 6250 et seq. Your request was received on May 02, 2022 and given the reference number R003917-050222 for tracking purposes.

Records Requested: Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road, APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211 San Bernardino, CA 92408 (See Attached Map) ESS requests the following information concerning the subject site which your agency may have on file: 1. utilization, manufacture, storage, or discharge of hazardous materials/waste. 2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste. 3. hazardous materials disclosures concerning the site. 4. pipelines. 5. information regarding underground storage tank present or previously found at the site. 6. Reportable Spills, Releases, Notices of Violations (NOVs) and any Environmental Reportable Issues."

Your request will be forwarded to the relevant CAL FIRE department(s) to locate the information you seek and to determine the volume and any costs that may be associated with satisfying your request. You will be contacted about the availability and/or provided with copies of the records in question. PLEASE NOTE: The California Public Records Act does not require a governmental body to create new information, to do legal research, or to answer questions.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed.

CAL FIRE

To monitor the progress or update this request please log into the CAL FIRE Records Center

shannon environmentalsupportservices.com

From: CALFIRE PRA Records Center <calfire@govqa.us>
Sent: Thursday, May 5, 2022 3:04 PM
To: shannon environmentalsupportservices.com
Subject: [Records Center] Public Records Request :: R003917-050222

--- Please respond above this line ---

CAL FIRE

RE: PUBLIC RECORDS REQUEST of May 02, 2022, Reference # R003917-050222.

Dear Shannon Castagno,

CAL FIRE received a public information request from you on May 02, 2022. Your request mentioned:

"Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512
Pioneer Avenue and 788 East Orange Show Road,
APNs 028019202, 028019220, 028019219, 028019206, 028019207,
028020207, 028020211, 028020209, 028019213, 028019210,
028020208, 028019209, 028019208, 028019205, 028019204,
028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)
ESS requests the following information concerning the subject site which your agency may have on file: 1. utilization, manufacture, storage, or discharge of hazardous materials/waste. 2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste. 3. hazardous materials disclosures concerning the site. 4. pipelines. 5. information regarding underground storage tank present or previously found at the site. 6. Reportable Spills, Releases, Notices of Violations (NOVs) and any Environmental Reportable Issues.""

CAL FIRE has reviewed its files and has located responsive records to your request. Please log in to the CALFIRE PRA Records Center at the following link to retrieve the appropriate responsive documents. Please note some information has been withheld pursuant to Government Code sections 6254(c) and (k), which incorporates an individual's right to privacy under the California Constitution (Cal. Const., art. I, 1) and the Information Practices Act of 1977 (Civ Code 1798 et seq.).

Public Records Request - R003917-050222

If you have any questions, or wish to discuss this further, please contact me.

Sincerely,
Maggie Jones

Public Records Act Analyst
Sacramento - HQ - Legal Office

To monitor the progress or update this request please log into the CALFIRE PRA Records Center

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
36193	CA	05/07/2003	HME	3014077	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
1 - Street addres	787	East	NORMAN	Road	

Apt./Suite/Room	City	State	Zip Code
	SBO	CA	92311

Census Tract

Cross street or directions, as applicable: 787 E NORMAN RD

C Incident Type

421 - Chemical hazard (n

Incident Type

D Aid Given or Received

Their FDID	Their State	Their Incident Number

N - None

Type Aid Given or Recieved

E1 Dates & Times (Midnight is 0000)

	Month Day Year	Hour Min Seconds
Alarm	05/07/2003	18:41:56
Arrival		
Controlled		
Last Unit Cleared	05/07/2003	18:47:48

E2 Shifts & Alarms (Local Option)

Shift or platoon	Alarms	District
C		BDO

E3 Special Studies (Local Option)

Special Study ID#	Special Study Value

F Actions Taken

48 - Remove hazardous materials

Actions Taken

G1 Resources

N Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	0	0
EMS	0	0
Other	0	0

N Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 0
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 0
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector: U - Unknown

H3 Hazardous Materials Release: 0 - Special hazmat actions required

I Mixed Use Property:

J Property Use: 419 - 1 or 2 family dwelling

K1 Person/Entity Involved

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix
	JIM		PAPARARO	

Number	Prefix	Street or Highway	Street Type	Suffix
		DTSC		

Post Office Box	Apt./Suite/Room	City

State	Zip Code	Business name (if applicable)	Area Code	Phone Number
			PII	

K2 Owner

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix

Number	Prefix	Street or Highway	Street Type	Suffix

Post Office Box	Apt./Suite/Room	City

State	Zip Code	Business name (if applicable)	Area Code	Phone Number

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
36193	CA	05/07/2003	HME	3014077	0

NFIRS Remarks

Remarks

TITLE:CAD Narrative [CRLF]CAD Inc #: 03028205 Sheriff Inc#: GOVERNMENT HAZARDOUS MATERIALS METH LAB NOTIFICATION/DEP SEAN THUILLIEZ [redacted] ..PGR [redacted] CLEAN UP CREW ENRT 1-2 HR ETA[CRLF]

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
N0396	Sandra Nicholas	AS	0	06/20/2003

NFIRS - 7 HazMat

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure	Haz No
36193	CA	05/07/2003	HME	3014077	0	1

B HazMat ID

UN Number | DOT Hazard Classification | CAS Registration Number

Chemical name

C1 Container Type

Container Type

C2 Estimated Container Capacity

Capacity: by volume or weight

C3 Units: Capacity

Units: Capacity

D1 Estimated Amount Released

Amount released: by volume or weight

D2 Units: Released

Units: Released

E1 Physical State When Released

Physical state when released

E2 Released Into

Released into

F1 Released From:

Released from:

Story of release

F2 Population Density

Population density

G1 Area Affected

1 - Square — Unit of measure

200

Area affected

G2 Area Evacuated

Unit of measure

Area evacuated

G3 People Evacuated

G4 Estimated Number of Buildings Evacuated

H HazMat Actions Taken

HazMat actions taken

I If fire or explosion is involved with a release, which occurred first?

Release/fire sequence

J Cause of Release

1 - Intentional

Cause of release

K Factors Contributing to Release

31 - Abandoned or discarded hazardous material

Factors contributing to release

L Factors Affecting Mitigation

Factors affecting mitigation

M Equipment Involved In Release

Equipment involved in release

Brand

Model

Serial Number

Year

N Mobile Property Involved in Release

Mobile property type

Mobile property make

Model | Year

License Plate Number | State

DOT Number/ ICC Number

O HazMat Disposition

7 - Released to private a

HazMat disposition

P HazMat Civilian Casualties

Deaths | Injuries

Redaction Date: 5/5/2022 12:02:42 PM

Redaction Log

Total Number of Redactions in Document: 4

Redaction Reasons by Page

Page	Reason	Description	Occurrences
1	PII	Personnel, Medical or Similar Records, Gov Code 6254(c).	1
2	PII	Personnel, Medical or Similar Records, Gov Code 6254(c).	3

Redaction Date: 5/5/2022 12:02:42 PM

Redaction Log

Redaction Reasons by Exemption

Reason	Description	Pages (Count)
PII	Personnel, Medical or Similar Records, Gov Code 6254(c).	1(1) 2(3)

Appendix F

Request for Records Search to the
City of San Bernardino Fire Department and
Response Obtained from that Agency

shannon environmentalsupportservices.com

From: San Bernardino Help Line <sanbernardino@user.govoutreach.com>
Sent: Monday, May 2, 2022 12:35 PM
To: shannon environmentalsupportservices.com
Subject: CRM: New Request # 6251762 [6639643330356534]

---If replying by email, enter your reply above this line---

Dear Shannon,

We appreciate the opportunity to assist you and assure you a positive experience with us.

The Problem you submitted was:

Request type: Public Records Request
Location: 695 E NORMAN RD
Description: Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512
Pioneer Avenue and 788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207,
028020207, 028020211, 028020209,
028019213, 028019210, 028020208, 028019209, 028019208,
028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

ESS requests the following information concerning the subject addresses which the fire department may have on file:
1. utilization, manufacture, storage, or discharge of hazardous materials/waste.
2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste.
3. hazardous materials disclosures concerning the site.
4. information regarding underground storage tank present or previously found at the site.

You may add additional information to this request by:
1) Replying to this email,
2) Signing into the system, or
3) Going to: <http://user.GovOutreach.com/sanbernardino/case.php?id=6251762&access=6639643330356534>

Thank you,
Office of the City Manager

shannon environmentalsupportservices.com

From:	Sylvia Bautista <Bautista_Sy@sbcity.org>
Sent:	Monday, May 2, 2022 2:05 PM
To:	shannon environmentalsupportservices.com
Cc:	Courtney Bowen; Diane Grant; Dianna Garcia; Genoveva Rocha; Perla Lopez
Subject:	CPRA Response to 6251762 Caspagno, Shannon (2) 05-02-22

Dear Sir/Madam,

This letter is in response to your request for public records received on May 2, 2022, by the City of San Bernardino ("City") pursuant to the California Public Records Act, Government Code § 6250 *et seq.* ("the Act"). You asked for the following records and information:

> Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512
> Pioneer Avenue and 788 East Orange Show Road
> APNs 028019202, 028019220, 028019219, 028019206, 028019207,
> 028020207, 028020211, 028020209,
> 028019213, 028019210, 028020208, 028019209, 028019208,
> 028019205, 028019204, 028019212 & 028019211
> San Bernardino, CA 92408
> (See Attached Map)
>
> ESS requests the following information concerning the subject addresses which the fire department may have on file:
>
> 1. utilization, manufacture, storage, or discharge of hazardous materials/waste.
> 2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste.
> 3. hazardous materials disclosures concerning the site.
> 4. information regarding underground storage tank present or previously found at the site.

The City has received your request for documents pertaining to the above address. Please note any records pertaining to Fire or Hazard Material Removal or Fire Violations, you can contact the San Bernardino County Fire Department at: 620 South "E" Street, San Bernardino, CA 92415 the website https://sbcfire.org/publicrecords/ The phone number is (909) 386-8401. Please note this is including Underground Storage Tanks (UST). City staff members are continuing to search for documents that may respond to your request.

Respectfully,

Sylvia Bautista
Records Management Specialist
City of San Bernardino – Office of the City Clerk
Office: 201 North "E" Street
Mail: 290 North "D" Street
San Bernardino, California 92401
Direct: 909.384.5002 | x3215
Bautista_sy@sbcity.org | www.sbcity.org

Appendix G

Request for Records Search to the
San Bernardino Public Works Department and
Extension to Respond Obtained from that Agency

shannon environmentalsupportservices.com

From: San Bernardino Help Line <sanbernardino@user.govoutreach.com>
Sent: Monday, May 2, 2022 12:33 PM
To: shannon environmentalsupportservices.com
Subject: CRM: New Request # 6251748 [3230396237643662]

---If replying by email, enter your reply above this line---

Dear Shannon,

We appreciate the opportunity to assist you and assure you a positive experience with us.

The Problem you submitted was:

Request type: Public Records Request
Location: 695 E NORMAN RD
Description: Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512
Pioneer Avenue and 788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207,
028020207, 028020211, 028020209,
028019213, 028019210, 028020208, 028019209, 028019208,
028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

ESS requests the following information concerning the subject addresses which the public works department may have on file:

1. copies of applications and permits for industrial waste discharge; and
2. copies of any and all violations concerning industrial waste discharge.

You may add additional information to this request by:
1) Replying to this email,
2) Signing into the system, or
3) Going to: <http://user.GovOutreach.com/sanbernardino/case.php?id=6251748&access=3230396237643662>

Thank you,
Office of the City Manager

shannon environmentalsupportservices.com

From:	Sylvia Bautista <Bautista_Sy@sbcity.org>
Sent:	Wednesday, May 11, 2022 11:09 AM
To:	shannon environmentalsupportservices.com
Cc:	Courtney Bowen; Diane Grant; Dianna Garcia; Genoveva Rocha; Perla Lopez; Telicia Lopez
Subject:	CRPA Extension for 6251748 Caspagno, Shannon 05-02-22

Dear Sir/Madam

This letter is in response to your request for public records received on May 2, 2022, by the City of San Bernardino ("City") pursuant to the California Public Records Act, Government Code § 6250 *et seq.* ("the Act"). You asked for the following records and information:

> Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road
> APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
> San Bernardino, CA 92408
> (See Attached Map)
>
> ESS requests the following information concerning the subject addresses which the public works department may have on file:
>
> 1. copies of applications and permits for industrial waste discharge; and
> 2. copies of any and all violations concerning industrial waste discharge.

In response to your request given the need to search for, collect the requested records from field facility or other establishments that are separate from the office processing the request, the City hereby avails itself 14 days from today to respond to your request, under the authority of the Act and Government Code § 6253(c). The City will provide a response on or before Wednesday, May 25, 2022.

Thank you,

Sylvia Bautista
Records Management Specialist
City of San Bernardino – Office of the City Clerk
Office: 201 North "E" Street
Mail: 290 North "D" Street
San Bernardino, California 92401
Direct: 909.384.5002 | x3215
Bautista_sy@sbcity.org | www.sbcity.org

Appendix H

Request for Records Search to the
City of San Bernardino Building Department and
Response and Photocopies Obtained from that Agency

shannon environmentalsupportservices.com

From: San Bernardino Help Line <sanbernardino@user.govoutreach.com>
Sent: Monday, May 2, 2022 12:37 PM
To: shannon environmentalsupportservices.com
Subject: CRM: New Request # 6251770 [3462323939653366]

---If replying by email, enter your reply above this line---

Dear Shannon,

We appreciate the opportunity to assist you and assure you a positive experience with us.

The Problem you submitted was:

Request type: Public Records Request
Location: 695 E NORMAN RD
Description: Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512
Pioneer Avenue and 788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207,
028020207, 028020211, 028020209,
028019213, 028019210, 028020208, 028019209, 028019208,
028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)
I hereby request copies of all building permits and certificates of occupancy for the above addresses.

You may add additional information to this request by:
1) Replying to this email,
2) Signing into the system, or
3) Going to: <http://user.GovOutreach.com/sanbernardino/case.php?id=6251770&access=3462323939653366>

Thank you,
Office of the City Manager

shannon environmentalsupportservices.com

From: Sylvia Bautista <Bautista_Sy@sbcity.org>
Sent: Tuesday, May 3, 2022 12:03 PM
To: shannon environmentalsupportservices.com
Cc: Courtney Bowen; Diane Grant; Dianna Garcia; Genoveva Rocha; Perla Lopez
Subject: CPRA Response to 6251770 Caspagno, Shannon (3) 05-02-22

Dear Sir/Madam,

This letter is in response to your request for public records received on May 2, 2022, by the City of San Bernardino ("City") pursuant to the California Public Records Act, Government Code § 6250 et seq. ("the Act"). You asked to review the following:

> Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512
> Pioneer Avenue and 788 East Orange Show Road
> APNs 028019202, 028019220, 028019219, 028019206, 028019207,
> 028020207, 028020211, 028020209,
> 028019213, 028019210, 028020208, 028019209, 028019208,
> 028019205, 028019204, 028019212 & 028019211
> San Bernardino, CA 92408
> (See Attached Map)
> I hereby request copies of all building permits and certificates of occupancy for the above addresses.

The city has located documents responsive to the above request. Attached is an electronic link of Building Permits. Please be advised that there are no Certificate of Occupancy. The City's provision of these documents completes your request.

Responsive records are available through drop box below:
https://www.dropbox.com/sh/0ashupute84bxsh/AADvZo9i6rjTU_Ytx_iUMPdPa?dl=0
(link expires in 60 days; please download any records you wish to retain)

Please let us know if you have any further questions.

Thank you

Sylvia Bautista
Records Management Specialist
City of San Bernardino – Office of the City Clerk
Office: 201 North "E" Street
Mail: 290 North "D" Street
San Bernardino, California 92401
Direct: 909.384.5002 | x3215
Bautista_sy@sbcity.org | www.sbcity.org

BUILDING PERMIT

Region 201 | By CS | Application Date 6/18/76 | Plans / Plot | Gr. E4 | Type Con. 5N | Fire Zone | Plan No. 55

Index No. 246-94

To be filled in by Applicant — PLEASE PRINT OR TYPE

Owner's Name: Dodd's Auto Repair — Phone No. 985-1902

Owner's Mailing Address: 24656 Norman Rd — City: SB — Zip:

JOB SITE ADDRESS: 24656 Norman Rd — City: SB

Lot No. — Block No. — Tract No.

Lot 13 & the W 65' of lot 12 - Tract 2888

Sec. — Twn. — Rng.

Intended Permit Use: REPAIR GARAGE CANOPY

Lot Dimensions	No. Stories	No. Bedrms	No. Dwell. Units	No. Dwell. Units Now on Lot	No. Fireplaces

No. Bldgs. Now on Lot — How Used: ENGR. 8850266

Contractor: Owner — When Plans Checked Notify: Dodd

Contractor's Mailing Address — City — Zip — Phone No.

24656 Norman SBd

FLOOR	EXT. WALLS	INT. WALLS	CEILING	ROOF	HEATING	SEWAGE SYSTEM
Conc.	Masonry	Masonry	Open Beam	Wood	Elect.	
Wood	Frame	Frame	Plaster	Comp. Sh.	Nat.Gas	Public
	Stucco	Plaster	Sheetrock	Built-up	L.P.G.	Private
	Siding	Sheetrock	Wood	Metal	Oil	Min.Depth
	Metal	Wood	Fiber Board	Tile	Solid	S.F./100 gal.

	Sq. Ft.	Factor	Adjusted Area or Valuation
1	1274	10.00	12740
2			
3			
Gar.			
Porch			
F.P.			

Valuation $ 12,740.00 — Adjusted Area 12740

Grading — Cu. Yds.

ELECTRICAL

PLUMBING

MECHANICAL

APPLICANT PLEASE READ CAREFULLY

I have read this application and agree to comply with ordinances and laws regulating building construction. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become in violation of the workman's compensation laws of California.

Owner's Signature

Signature: [signature] License No. 11447

Other Fee (Specify)		
Plan Ck. Fee	42	90
Constr. Fee	66	00
Elect. Fee		
Plumbing Fee		
Mech. Fee		
Permit Fee		
TOTAL FEE	$ 108	90

Receipt Num. 21705 — Check No.

FOR DEPARTMENT USE ONLY

Plan Ck. Valuation

Hwy CC

Minimum Property Setback Distances

ZONE M-1 — AP No.

Front Setback from Center Line — R/W

Rear Setback from Rear Property Line

Side Street Setback from Center Line — R/W

Side Setback from Property Line

Side Setback from Property Line

HOLD: Plans / P.C. / Fee / Engr. / Var. / Lot Split / Notified: Owner, Contr., Engr.

Released DC 6/21/76

Pre-Alter

Citation No.

NOTE

COUNTY OF SAN BERNARDINO, BUILDING AND SAFETY DEPT.

03 1358-456 Rev. 5/75

Building Address: (823) 823 Norman Rd

Owner: Les Bradbury

Mailing Address: 2526 E. Workman Ave

City: West Covina, Ca | Zip: 91791 | Tel.: 213/966 0222

Contractor: Henry Bush Plumbing

Address: 1880 W. Baseline

City: SB CA | Zip: 92411 | Tel.: 889 4658

State Lic. & Classif.: 71177 | City Lic. No.: 42786

Arch., Engr., Designer:

Address: | Tel.:

City: | Zip: | State Lic. No.:

Intended Permit Use: Gas Serv/Dwlg

Sq. Ft. Size: | No. Stories: | No. Dw. Units:

New ☐ Add ☐ Alter ☐ Repair ☐ Demolition ☐

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

by Matt 6/1/81

SIGNATURE DATE

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason: *(Sec. 7031.5, Business and Professions Codes: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law, Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom, and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).*

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)*

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improve thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)*

☐ I am exempt under Sec. _____ B. & P.C. for this reason _____

Date _____ Owner _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof. *(Sec. 3800, Labor Code.)*

82 48 Stnd. Truck Ins Exchng

Policy No. _____ Company _____

☐ Copy is filed with the city. ☐ Certified copy is hereby furnished.

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) valuation or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

NOTICE TO APPLICANT: If, after making this Certificate of Exemption you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. *(Sec. 3097, Civil Code.)*

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

by Matt 6/1/81

Signature of Applicant _____ Date _____

Mailing Address _____

City, State, Zip Same as above

ISSUED BY: CG/vf DATE 6/1/81 PERMIT # 47480

CITY OF SAN BERNARDINO
DEPARTMENT OF BUILDING AND SAFETY
300 North "D" Street, San Bernardino, CA 92418
Tel. (714) 383-5071

BUILDING: TYPE CONST. _____ OCC. GRP. _____

TRACT: _____ LOT _____ VALIDATED 6-1-81

This is a building permit when properly filled out, signed and validated, and is subject to expiration if work thereunder is suspended for 180 days.

ESTIMATED VALUATION	
ELECTRICAL	
Permit Fee	
TOTAL FEE	
PLUMBING	
1 gas serv	2.00
Permit Fee	10.00
TOTAL FEE	12.00
HEATING AND A.C.	
Permit Fee	
TOTAL FEE	

PERMIT	ACCOUNT NUMBER	AMOUNT
Plan Chk. Dep.	01-009-411	
Plan Chk. Bal.	01-009-411	
Building	01-009-222	
Mechanical	01-009-223	12.00
Strong Motion	72-816-000	
Storm Drain	48-009-495	
Parks & Rec.	43-009-413	
Sewer Conn.		
Sewer Cap		
TOTAL		12.00

REMARKS:

ZONE: _____ BY: _____

MINIMUM SETBACK DISTANCES:

_____ Front Setback From Center Line _____

_____ Rear Setback From Rear Property Line _____

_____ Side Street Setback From Center Line _____

_____ Side Setback From Property Line _____

FINAL DATE 5/22/81 INSPECTOR J Medina

STRUCTURE	PLUMBING		HEATING & AIR COND.		ELECTRICAL
SETBACK	LAVATORY	TOILET	A.C. UNIT		
EXCAVATION	BATHTUB	FL. DRAIN	FL. FURN.		
FORMS	SHOWER	SEWER	WALL FURN.		SERVICE
FOUND. REINF.	SINK	SEWER ALT.	F.A.U.		POOL
REINF. STEEL	LAUND. TUB	GAS SER.	EXH. FAN		SPA
GROUT	AUTO WASH.	WATER HTR.	EVAP. CLR.		TEMP. POLE
BOND BEAM	GAS DRYER	FLOOR SNK.	DUCT ALT.		SIGN
LUMBER GR.	URINAL	DRINK FTN.			BALLAST
FRAMING	SPRINKLER	SPA/PL. HTR.			MBL. HOME
ROOFING	POOL				
VENTILATION	SPA				
FIRE ZONE ROOFING					
FIREPLACE					
SPARK ARRESTOR					
GAR. FIREWALL					
LATHING	GROUND PLUMB.		A.C. UNIT		UNDERGROUND
MESH	ROUGH PLUMB.		HEATING (ROUGH)		BONDING
INSULATION/SOUND	SEWER OR SEPTIC TANK		DUCT WORK		ROUGH WIRING
FINISH GRADING	GAS (ROUGH)		HEATING (FINAL)		METER LOOP
	GAS (FINAL)				TEMP. POLE
CERT. OCC.	WATER HEATER				SERVICE
N.	WATER SYSTEM				
	FINAL INSP.		FINAL INSP.		FINAL INSP.

POOL FENCE & S/C GATES

W. E.

S.

SEWER CAPACITY:
SEWER CONNECTION:
STORM DRAIN:
PARKS & REC.:

INSPECTORS SIGNATURES/INITIALS

Building 323 Norman Road

Owner

Mailing Address City of San Bernardino

City	Zip	Tel.

Contractor Warren Duncan Equipment

Address 1700 Pennsylvania Ave

City	Zip	Tel.
colton	92324	825-1546

State Lic. & Classif. 251593 — City Lic. No. pd

Arch., Engr., Designer

Address — Tel.

City	Zip	State Lic. No.

Intended Permit Uses/family dwell

Sq. Ft. Size	No. Stories	No. Dw. Units

New ☐ Add ☐ Alter ☐ Repair ☐ Demolition ☐

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

SIGNATURE Warren Duncan DATE 8/8/88

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason: *(Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law, Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom, and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).*

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)*

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improve thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)*

☐ I am exempt under Sec. _____ B. & P.C. for this reason _____

Date _____ Owner _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof. *(Sec. 3800, Labor Code.)*

Policy No. AWC0144371 Company Westcrimer Ins

☐ Copy is filed with the city. ☐ Certified copy is hereby furnished.

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) valuation or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____ Owner _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. *(Sec. 3097, Civil Code.)*

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct, I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Signature of applicant Warren Duncan Date 8/8/88

Mailing Address _____

City, State, Zip _____

280-202-11 dj/pm ISSUED BY: _____ DATE 8/8/88 PERMIT No. 74481

CITY OF SAN BERNARDINO
DEPARTMENT OF BUILDING AND SAFETY
300 North "D" Street, San Bernardino, CA 92418
Tel. (714) 384-5071

BUILDING: TYPE CONST. _____ OCC. GRP. _____

TRACT: _____ LOT _____ VALIDATED 8/8/88

This is a building permit when properly filled out, signed and validated, and is subject to expiration if work thereunder is suspended for 180 days.

demolish & clear lot from s.b. purchasing agent PO # 903240	
ESTIMATED VALUATION	3340.00
ELECTRICAL	
Permit Fee	
TOTAL FEE	
PLUMBING	
Permit Fee	
TOTAL FEE	
HEATING AND A.C.	
Permit Fee	
TOTAL FEE	

PERMIT	ACCOUNT NUMBER	AMOUNT
Plan Chk. Dep.	001-000-41731	
Plan Chk. Bal.	001-000-41731	
Building	001-000-41330	63.00
Mechanical	001-000-41331	
Strong Motion	772-181-24591	.60
Storm Drain	248-000-41818	
Parks & Rec.	243-000-41732	
Sewer Conn.	245-000-41822	
Sewer Cap		
Signs	001-000-41332	
Cultural D.C.	001-000-41335	
TOTAL		63.60

REMARKS:

ZONE: _____ BY: _____

MINIMUM SETBACK DISTANCES:

_____ Front Setback From Center Line _____

_____ Rear Setback From Rear Property Line _____

_____ Side Street Setback From Center Line _____

_____ Side Setback From Property Line _____

FINAL DATE 8-30-88 INSPECTOR [illegible]

STRUCTURE	PLUMBING				HEATING & AIR COND.				ELECTRICAL
ETBACK	LAVATORY		TOILET		A.C. UNIT				
XCAVATION	BATHTUB		FL. DRAIN		FL. FURN.				
ORMS	SHOWER		SEWER		WALL FURN.				SERVICE
OUND. REINF.	SINK		SEWER ALT.		F.A.U.				POOL
EINF. STEEL	LAUND. TUB		GAS SER.		EXH. FAN				SPA
ROUT	AUTO WASH.		WATER HTR.		EVAP. CLR.				TEMP. POLE
OND BEAM	GAS DRYER		FLOOR SNK.		DUCT ALT.				SIGN
UMBER GR.	URINAL		DRINK FTN.						BALLAST
RAMING	SPRINKLER		SPA/PL. HTR.						MBL. HOME
OOFING	POOL								
ENTILATION	SPA								
IRE ZONE ROOFING									
IREPLACE									
PARK ARRESTOR									
AR. FIREWALL									
ATHING	GROUND PLUMB.				A.C. UNIT				UNDERGROUND
ESH	ROUGH PLUMB.				HEATING (ROUGH)				BONDING
NSULATION/SOUND	SEWER OR SEPTIC TANK				DUCT WORK				ROUGH WIRING
INISH GRADING	GAS (ROUGH)				HEATING (FINAL)				METER LOOP
	GAS (FINAL)								TEMP. POLE
ERT. OCC.	WATER HEATER								SERVICE
N.	WATER SYSTEM								
	FINAL INSP.				FINAL INSP.				FINAL INSP.

POOL FENCE & S/C GATES

I. E. Not Complete 8/22/88 JL

Final 8/30/88 Mary

S.

EWER CAPACITY:

EWER CONNECTION:

TORM DRAIN:

ARKS & REC.:

NSPECTORS SIGNATURES/INITIALS JL Mary Mark Lyons

107

JOB ADDRESS: 867 Norman Road APN: 280-202-09

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418

DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-LINK

PERMIT NUMBER
Nº 98174

DATE 10/05/94
PLAN CK. NO.

Job Address: 867 Norman Road APN: 280-202-09
Major Cross Sts: Waterman Avenue TRACT/LOT:
DESCRIPTION OF PROJECT: Electric Box Change Out 100 AMP

NO. ROOMS: 4 NO. STORIES: 1 SQ. FT.: 1,100
OWNER: Johnny Evans OWNER/BLDR. YES X NO
MAILING ADDRESS: 867 Norman Road
CITY/STATE: San Bernardino, CA ZIP: 92408 TEL.:
APPLICANT/CONTRACTOR: Owner
ADDRESS:
CITY/STATE: ZIP: TEL.:
CONTRACTOR'S STATE LIC. #: BUS. LICENSE:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW
Pre-inspection Rpt.
(attach Copy to Permit)
Construction Type Occupancy Type
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No Zone
High Fire: Yes No Zone

Workman's Comp. Insurance
Yes No
Issued by
Expiration date:
Comments:

PLANNING REVIEW
Planning Case File:
Zone: By:
Comments:

CODE ENFORCEMENT
File/Project #: 3226 N/F
Comments:

Before Issuing Permit *-- Verify that the following applicable fees have been paid.*
6024 - Sewer Capacity Fees:
Date:
Recpt. No.
School District Fees:
Date:

Receipt No.: 673573
By: G. Franske/kdw

Estimated Valuation:
Bldg. Construction:

Electrical:
100 AMP Service 18.50
Permit Fee: $15
Total Elec. Fees 33.50

Plumbing:
Permit Fee: $15
Total Plumb. Fees:

Heating & A/C
Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

41331	Total Elec/Plumb/Htg.	33.50
41731	Pln. Check Dep.	
41731	Plan Check Fees	
41330	Building Permit Fees	
41330	Investigation Fees	
41305	Sign Permit Fees	
41305	C. of O. Fee	
24591	Strong Motion Fees	

PLANNING DIVISION

41720	C. Of O. Fee	
41766	Zoning Consistency Review Fee	
41720	Plan Review Fee	

ENGINEERING DIVISION

41818	Storm Drain Fees	
41822	Sewer Conn. Fees	
41803	Traffic Signal Fees	

PARK & RECREATION

41732	Park Development Fees	

CULTURAL DEVELOP. FUND

41335	Cultural Development Fees	

Total Fees Due: 33.50

EXPIRATION

This permit shall be void and of no further force or effect if work is not commenced within 180 days or if work is suspended or abandoned for a period of 180 days or more after work is commenced. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

APPLICANT / PROJECT OWNER RESPONSIBILITY

1. The project address must be visible from street. Check address visibility prior to calling for inspections (UBC Section 513).
2. Lot corners/property lines must be properly staked in order to do a setback inspection. If neighboring structures appear not to have the proper setbacks a field survey by a licensed land surveyor shall be required (UBC Section 305[a]).
3. City "approved" plans and job inspection card must be on project site, available for Building Inspector's examination (UBC Section 303[b]).
4. The Department of Building and Safety must be called to make progress inspections (UBC Section 305[a]).
5. All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC Section 305[a]).
6. The project is to be built in accordance with City approved plans. Deviations from approved plans must be approved in writing from the City (UBC Section 303[a]).
7. The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC Section 308[a]).

JOB ADDRESS: ~~280-202-09~~ 867 NORMAN APN: 280-202-09

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418

DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-LINK

PERMIT NUMBER 98174
DATE 10-5-94
PLAN CK. NO.

Job Address: 867 Norman Rd APN:
Major Cross Sts: Waterman TRACT/LOT:
DESCRIPTION OF PROJECT: Electric Box Change Out 100 AMP

NO. ROOMS: 4 NO. STORIES: 1 SQ. FT.: 1100
OWNER: Johnny C Evans OWNER/BLDR. YES ✓ NO
MAILING ADDRESS: 867 Norman Rd
CITY/STATE: San Bernardino CA ZIP: 92408 TEL.:
APPLICANT/CONTRACTOR: OWNER
ADDRESS:
CITY/STATE: ZIP: TEL.:
CONTRACTOR'S STATE LIC. #: BUS. LICENSE:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW
Pre-inspection Rpt.
(attach Copy to Permit)
Construction Type Occupancy Type
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No Zone
High Fire: Yes No Zone

Workman's Comp. Insurance
Yes No
Issued by
Expiration date:
Comments:

PLANNING REVIEW
Planning Case File:
Zone: By:
Comments:

CODE ENFORCEMENT
File/Project #: 3226 N/F
Comments:

Before Issuing Permit *– Verify that the following applicable fees have been paid.*
6024 - Sewer Capacity Fees:
Date:
Recpt. No.
School District Fees:
Date:

Receipt No.: 673573
By: GEDL

Estimated Valuation:
Bldg. Construction:
~~100 AMP SERVICE~~

Electrical: 100 AMP SERVICE
19.50
Permit Fee: $15
Total Elec. Fees 33.50

Plumbing:
Permit Fee: $15
Total Plumb. Fees:

Heating & A/C
Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

41331	Total Elec/Plumb/Htg.	33.50
41731	Pln. Check Dep.	
41731	Plan Check Fees	
41330	Building Permit Fees	
41330	Investigation Fees	
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41305	C. of O. Fee	
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PLANNING DIVISION

41720	C. Of O. Fee	
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ENGINEERING DIVISION

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5. All work is to be inspected prior to covering; work covered without City inspection must be uncovered at owner's/contractor's expense (UBC Section 305[a]).
6. The project is to be built in accordance with City approved plans. Deviations from approved plans must be approved in writing from the City (UBC Section 303[a]).
7. The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC Section 308[a]).

CITY OF SAN BERNARDINO PLANNING AND BUILDING SERVICES DEPARTMENT

BUILDING DEVELOPMENT PERMIT APPLICATION

BUILDING DEVELOPMENT PERMIT CERTIFICATIONS

WORKMAN'S COMPENSATION DECLARATION / EXEMPTION:
This section need not be completed if the work to be performed under this permit is valued at one hundred ($100) or less. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to Workers' Compensation Laws of California.

APPLICANT SIGNATURE _____ Date _____
NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Wrokers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

WORKERS' COMPENSATION DECLARATION:
I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

☐ Certified copy is hereby furnished. ☐ Certified copy is already filed with the Planning and Building Services Department of the City of San Bernardino

Workman's Compensation Carrier: _____ Policy No. _____ Exp. Date _____

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

CONTRACTOR'S SIGNATURE _____ Date _____

CONSTRUCTION LENDING AGENCY:
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

No Construction Lender ☐

SIGNATURE _____ Date _____

OWNER-BUILDER DECLARATION:
I hereby affirm that I am **EXEMPT FROM THE CONTRACTOR'S LICENSE LAW** for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00):

SIGNATURE: Johnny L. Evans Date _____

I, as owner of the property, or my employees with wages as their sole compensation; **WILL DO THE WORK,** and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code; The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

SIGNATURE: Johnny L. Evans Date _____

I, as owner of the property, am **EXCLUSIVELY CONTRACTING** with licensed contractors to construct the project (Sec. 7044, Business and Professions Code; The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).
Contractor's list must be attached. ☐ Yes ☐ No

SIGNATURE _____ Date _____

I am exempt under Sec. _____ Business and Professions Code for this reason:

_____

Owner ID verified by driver's license. ☐ Yes ☐ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

DIVISION OF INDUSTRIAL SAFETY PERMIT CERTIFICATION:

☐ I hereby certify that no excavation five (5) or more feet in depth into which a person is required to descend, will be made in connection with work authorized by this permit, and that no building structure, scaffolding, falsework, or demolition or dismantling thereof, will be more than thirty-six (36) feet high. (Chap. 3.2, Grp 2, Art 2, Sec. 341, Title 8, California Administrative Code).

☐ As owner-builder, I will not employ anyone to do work which would require a permit from the Division of Industrial Safety, as noted above, unless such person has a permit to do such work from the Division.

SIGNATURE _____ Date _____

Division of Industrial Safety Permit No. _____

HAZARDOUS MATERIALS AND EMISSIONS CERTIFICATION

1. Will the applicant or present or future building occupant need to file and certify a Business Plan for emergency response to a release or threatened release of a hazardous material?
Yes ☐ No ☐
(Section 25505 of the California Health and Safety Code requires, with some exceptions, that a Business Plan be filed with the County of San Bernardino by every business which has at any one time during a reported year a quantity of hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

2. Does or will the applicant or present or future building occupant need to file a registration form for acutely hazardous materials?
Yes ☐ No ☐
(Section 25533 of the California Health and Safety Code, with some exceptions, requires registration with the County of San Bernardino by each business which at any one time has on hand a quantity of acutely hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

3. Does or will the applicant or present or future building occupant need to prepare an RMPP (Risk Management and Prevention Program for accutely hazardous materials)?
Yes ☐ No ☐
(Section 25534 of the California Health and Safety Code provides that the County of San Bernardino may require the preparation, certification and filing with the County of an RMPP by businesses which are required to register acutely hazardous materials with the County).

4. If an RMPP is presently required, has Section 25534 of the California Health and Safety Code been fully complied with?
Yes ☐ No ☐

5 Does or will the applicant or present or future building occupant require for the work which is the subject of this application a permit for such construction or modification from the South Coast Air Quality Management District or from any other air pollution control district or agency?
Yes ☐ No ☐
(Section 65850.2 of the California Government Code requires that the requested information be furnished on applications for non-residential building permits).

6. Will any part of the facility to be constructed under this permit be within 1000 feet from the outer boundaries of a school?
Yes ☐ No ☐
(If "yes", the facility must meet the requirement of Sections 25534 and 42303 of the California Health and Safety Code).

7. If a permit from the South Coast Air Quality Management District or other air pollution control district or agency is required for the work which is the subject of this application, have all of the disclosures prescribed by California Health and Safety Code Section 42303 been made?
Yes ☐ No ☐
(If "yes", attach certificate of compliance from the appropriate air pollution control officer).
Certificate of compliance: I certify that under penalty of perjury the information given above is correct. I agree to comply with all state laws and city ordinances regarding Hazardous Materials and Emissions.

SIGNATURE _____ Date _____

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

SIGNATURE OF LEGAL OWNER(S) and / or AUTHORIZED APPLICANT

Johnny L. Evans Date _____

_____ Date _____

_____ Date _____

JOB ADDRESS: 867 Norman Road APN: 280-202-09

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418

DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-LINK

PERMIT NUMBER
No. 98174

DATE 10/05/94
PLAN CK. NO.

Job Address: 867 Norman Road APN: 280-202-09
Major Cross Sts: Waterman Avenue TRACT/LOT:
DESCRIPTION OF PROJECT:
Electric Box Change Out 100 AMP

NO. ROOMS: 4 NO. STORIES: 1 SQ. FT.: 1,100
OWNER: Johnny Evans OWNER/BLDR. YES X NO
MAILING ADDRESS: 867 Norman Road
CITY/STATE: San Bernardino, CA ZIP: 92408 TEL.:
APPLICANT/CONTRACTOR: Owner
ADDRESS:
CITY/STATE: ZIP: TEL.:
CONTRACTOR'S STATE LIC. #: BUS. LICENSE:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW
Pre-inspection Rpt.
(attach Copy to Permit)
Construction Type Occupancy Type
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No Zone
High Fire: Yes No Zone

Workman's Comp. Insurance
Yes No
Issued by
Expiration date:
Comments:

PLANNING REVIEW
Planning Case File:
Zone: By:
Comments:

CODE ENFORCEMENT
File/Project #: 3226 N/F
Comments:

Before Issuing Permit *-- Verify that the following applicable fees have been paid.*
6024 - Sewer Capacity Fees:
Date:
Recpt. No.
School District Fees:
Date:

Receipt No.: 673573
By: G. Franeke/kdw

Estimated Valuation:
Bldg. Construction:

Electrical:
100 AMP Service
18.50
Permit Fee: $15
Total Elec. Fees 33.50

Plumbing:
Permit Fee: $15
Total Plumb. Fees:

Heating & A/C
Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

41331	Total Elec/Plumb/Htg.	33.50
41731	Pln. Check Dep.	
41731	Plan Check Fees	
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PLANNING DIVISION

41720	C. Of O. Fee	
41766	Zoning Consistency Review Fee	
41720	Plan Review Fee	

ENGINEERING DIVISION

41818	Storm Drain Fees	
41822	Sewer Conn. Fees	
41803	Traffic Signal Fees	

PARK & RECREATION

41732	Park Development Fees	

CULTURAL DEVELOP. FUND

41335	Cultural Development Fees	

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3. City "approved" plans and job inspection card must be on project site, available for Building Inspector's examination (UBC Section 303[b]).
4. The Department of Building and Safety must be called to make progress inspections (UBC Section 305[a]).
5. All work is to be inspected prior to covering; work covered without City inspection must be uncovered at owner's/contractor's expense (UBC Section 305[a]).
6. The project is to be built in accordance with City approved plans. Deviations from approved plans must be approved in writing from the City (UBC Section 303[a]).
7. The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC Section 308[a]).

CITY OF SAN BERNARDINO PLANNING AND BUILDING SERVICES DEPARTMENT

BUILDING DEVELOPMENT PERMIT INSPECTION APPROVALS

CALL FOR INSPECTION
Requests for inspection shall be made in advance by calling 909/ 384-LINK (384-5465) by 2:00 p.m. of the day prior to the day needed for inspection.

INSPECTION APPROVAL RECORD

Do not proceed until previous inspection block has been approved, if applicable.

INSPECTION ITEM	COMMENTS	OK DATE	INSPECTOR
Power Pole/Meter Loop			
Rough Grading (Eng. Insp.)			
Setback			
Excavation/Forms/Steel/Footings			
Ground Plumbing			
Electrical Ground/Bounding			
Underslab Conduit/Ducts			
Slab Grade			
Masonry & Steel			
Masonry Grout			
Roof Sheathing			
Shear Nail			
Framing and Ventilation			
Rough Heating/Vents/A.C.			
Rough Electrical/Service	H SMOKE DET	10-13-94	CBK
Rough Plumbing/Vents			
Rough Fire Sprinkler			
Insulation & Certificate			
Stucco-Mesh or Exterior Siding			
Lath or Drywall Nailing			
Stucco Scratch			
Stucco Brown			
Sewer/Sewage Disposal			
Water Service			
T-Bar			
Gas Line Air Test			
Roof Covering			
Pool Pre-Gunite			
Pool Pre-Plaster			
Demolition			
Final Electrical			
Final Plumbing			
Final Heating/A.C./Refrig.			
Final Grading (Eng. Insp.)			
Planning Requirements			
Final Fire Approval			
Final Construction			
Health Dept. Approval			

Final Inspection — OK to Occupy _____ INSPECTOR _____ DATE

(Signed When Applicable) WHEN SIGNED, THIS PERMIT IS YOUR CERTIFICATE OF OCCUPANCY.

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.
Friday (Alternating) — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.
Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction	7-2600	

Comments:

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

Suite #: **Inspector Area:** 4 **Permit #:** B0001519

Address: 707 E NORMAN RD SB
Parcel #: 0280-192-20-0000
Owner: MILLER GARY
Contractor:
Workers Comp; N

Date Issued:
Permit Type: BLDG
Phone #:
Phone #:

ELECTRICAL

Multi-Family Sq Ft: 0	Dwellings Sq Ft: 0	Commercial Sq Ft:	0
Service to 600 volts/ 200 amps:	0	**Power Apparatus.....**	
to 600 volts/1000 amps:	0	to 1 HP/KW/KVA:	0
> 600 volts/1000 amps:	0	to 10 HP/KW/KVA:	0
Temp Power Pole:	0	to 50 HP/KW/KVA:	0
Temp Distribution System:	0	to 100 HP/KW/KVA:	0
Recep/Switch/Outlets:	0	> 100 HP/KW/KVA:	0
Lighting Fixtures:	0	Busways:	0
Pole/Platform Lighting Fixtures:	0	Miscellaneous Apparatus:	0
Theatrical Lighting Fixtures:	0	Electrical Meter Reset:	0
Residential Appliance to 1 HP:	0	Each Additional Meter same lot:	0
NonResidential Appliance to 1 HP:	0	Electrical Meter Reset w/other work:	

MECHANICAL

Furnace to 100K BTU:	0	**Boilers/Compressors.....**	
Over 100K BTU:	0	to 3HP/ 100K BTU:	0
Floor Furnace:	0	to 15HP/ 500K BTU:	0
Suspended/Wall/Floor Heater:	0	to 30HP/1.00M BTU:	0
Appliance Vent:	0	to 50 HP/1.75M BTU:	0
Heating/Refr/Cooling Unit:	0	> 50HP/1.75M BTU:	0
Vent Fan/w Duct:	0	Miscellaneous Appliance/Equipment:	0
Vent System:	0	Domestic Incinerator:	0
Exhaust Hood:	0	Commercial/Industrial Incinerator:	0
Evaporative Cooler:	0		
Air Handlers to 10K CFM:	0		
over 10K CFM:	0		

PLUMBING

Fixtures/Traps:	0	Private Sewage Disposal System:	0
Building/Trailer Sewer:	0	Industrial Waste Pretreatment:	0
Water Heater/Vent:	0	**Backflow Protection.....**	
Gas Piping Outlets:	0	up to 2":	0
Water Piping:	0	over 2":	0
Drainage/Vent Piping:	0	Gas Meter Reset:	0
Lawn Sprinkler System:	0	Reset in Conjuncton w/other work:	0
Rainwater System/Drains:	0	Additional Meter Resets:	0
Atmospheric Breakers:	0		

DESCRIPTION

FINAL INSPECTION OF EXPIRED PERMIT B9900493 TEAR OFF
EXISTING & REROOF W/ COMP SHINGLES,ELEC. WALL HTR,WATER
HEATER,PLUMBING FIX,12-WINDOWS, TUB,SINKS,WATER
CLOSET,ELEC.MTR

REPAIRS/REHAB

Number of Windows:	0		
Floor/Roof Sheeting Number of Sheets:	0	OR Square Footage:	0
Exterior Stucco in sq yds:	0	Value of Structural Repairs:	$0.00
Exterior Siding in sq yds:	0	Drywall Repair Number of Sheets:	0

City of San Bernardino

Development Services Department

Permit Number

B0001519

(909) 384-5071 • Fax: (909) 384-5080 • www.ci.san-bernardino.ca.us

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 707 E NORMAN RD
Suite #:
Parcel: 0280192200000
Tract/Lot#:

Status: APPLIED
Applied: 06/20/2000
Issued:

Owner: MILLER GARY
Address: 6794 OAK FOREST DR
AGOURA HILLS CA91377-3833
Phone: (818) 889-4224

Contractor:
Address:
Phone:
License:

Architect:
Address:
Phone:
License:

Engineer:
Address:
Phone:
License:

Building Information

Construction Type:
Occupancy:
Sprinklers:
Flood Plain Zone:
Fire Zone: N
Highwind: N

Description/Valuation

Type of Permit: FINAL INSPECTION OF [redacted] PERMIT B9900493 TEAR OFF EXISTING & REROOF W/ COMP SHINGLES,ELEC. WALL HTR,WATER HEATER,PLUMBING FIX,12-WINDOWS, TUB,SINKS,WATER CLOSET,ELEC.MTR

Occupancy	Type	Factor	Sq Feet	
Totals...				$0.00*

Fee Summary

Plan Check:	$0.00	Planning Review:	$0.00
Other Plan Check:	$0.00	Strong Motion:	$0.00
Expeditious:	$0.00	Verdemont:	$0.00
Building Permit:	$0.00	Storm Drain:	$0.00
Electrical Permit:	$0.00	Traffic:	$0.00
Plumbing Permit:	$0.00	Sewer Connection:	$0.00
Mechanical Permit:	$0.00	Parks / Recreation:	$0.00
Certificate of Occupancy:	$0.00	Cultural Development:	$0.00
Other Building Fees:	$60.00	Hardship/Alternate:	$0.00
Special Investigation:	$0.00	Total Fees:	$60.00
Building Issuance:	$0.00	Amount Received:	$60.00
Building Repairs/Rehab:	$0.00	Balance Due:	$0.00

Comments

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

PLAN-21.01/pg-1 (9-96)

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:

I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: 6-21-00

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:

❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:

I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: 6-21-00

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. C0828903 Expires: 9-5-00

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:

Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: 6-21-00

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
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00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: 707 E Normal Rd

Address: _____ Date 7-26-00 7:40 pm

- CORRECTION NOTICE -

Permit No. B0001519

Inspection Type: FINAL

1. SECURE WATER HEATER CABINET
2. WASHING MACHINES & DRYERS CANNOT BE VENTED OUTDOORS OR DRAIN ON TOP OF THE GROUND
3. OBTAIN PERMITS & INSPECTIONS FOR NEW PLUMBING THAT HAS BEEN INSTALLED

Thank You

Jack Nunn

Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☐ Please Make Corrections and Call for Reinspection

☒ Please Make Corrections and Proceed.

PLAN-4.06/bld (1-99)

101

Development Services Department

Permit Number

B0504050

(909) 384-5071 • Fax: (909) 384-5080 • www.san-bernardino.ca.us 300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address:	807 E NORMAN RD	Status:	ISSUED
Suite #:	Tract/Lot#:	Applied:	12/09/2005
Parcel:	0280202070000	Issued:	
Owner:	WILLIAMS THOMAS	Phone:	909-888-8981
Address:	807 E NORMAN RD SAN BERNARDINO, CA92408		
Contractor:		Phone:	
Address:		License:	
Architect:		Phone:	
Address:		License:	
Engineer:		Phone:	
Address:		License:	

Building Information

Construction Type:	Occupancy:	Sprinklers:
Flood Plain Zone:	Fire Zone:	Highwind: N

Description/Valuation

Type of Permit: BLOCK WALL ON SIDE PROPERTY LINE AND SMALL WALL ON REAR (150' X 6')PROPERTY LINE (20' X 6")

Occupancy	Type	Factor	Sq Feet	Valuation
Fences & Block walls	6' High Block Wall	30.00	170	$5,100.00
	Totals...		170	$5,100.00*

Fee Summary

Plan Check:	$0.00	Planning Review:	$0.00
Expeditious:	$0.00	Strong Motion:	$0.51
Fire Plan Check Fees:	$0.00	Verdemont:	$0.00
Building Permit:	$81.00	Storm Drain:	$0.00
Electrical Permit:	$0.00	Traffic:	$0.00
Plumbing Permit:	$0.00	Sewer Connection:	$0.00
Mechanical Permit:	$0.00	Parks / Recreation:	$0.00
Certificate of Occupancy:	$0.00	Cultural Development:	$0.00
Other Building Fees:	$0.00	Hardship/Alternate:	$0.00
Special Investigation:	$0.00	Total Fees:	$147.76
Building Issuance:	$15.00	Amount Received:	$147.76
Building Repairs/Rehab:	$0.00	Balance Due:	$0.00

Comments

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5071

— "Permit Form" —

FILE

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Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: T. Williams Date: 12-9-05

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☒ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

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❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: T. Williams Date: 12-9-05

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. N3594753 Expires: 09

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant: T. Williams Date: 12-9-05

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural			
00010	Rough Grading		
00020	Setbacks		
00030	Foundation/Ftgs.		
00040	Slab Grade		
00080	Pool Pre-Gunite		
00090	Pool Pre-Plaster		
00100	Masonry & Steel (1st lift)		
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00112	Masonry & Steel (4th lift)		
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00210	Stucco Brown		
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00150	T-Bar		
00125	Reroof		
00320	Demolition		
00460	Misc.		
Other			
00470	Mobile Home Install		
00480	Awnings/Porches		

CODE #	INSPECTION TYPE	DATE	INTITIALS
Electrical			
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00060	Underground Electrical		
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00160	Rough Electrical		
00275	Electrical Service		
00165	Misc. Electrical		
Plumbing			
00050	Underground Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test		
00235	Misc. Plumbing		
Mechanical			
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00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical		
00290	Final Plumbing		
00300	Final Mechanical		
00350	Final Construction		

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office
Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.
Friday — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.
Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

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00190	Exterior Lath or Siding		
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00210	Stucco Brown		
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00460	Misc.		
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00480	Awnings/Porches		

CODE #	INSPECTION TYPE	DATE	INITIALS
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Plumbing			
00049	Underground EC Pre-Treatment		
00050	Undergound Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test		
00235	Misc. Plumbing		
Mechanical			
00150	Rough Mechanical		
00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical		
00289	Final EC Pre-Treatment		
00290	Final Plumbing		
00300	Final Mechanical		
00350	Final Construction	12/27/05	CRAIG

Comments

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

Suite #: Inspector Area: 3 ? Final

Permit #: B0504050
Permit Type: BLDG

Address: 807 E NORMAN RD SB
Parcel #: 0280202070000
Owner: WILLIAMS THOMAS
Contractor:
Workers Comp;

Date Applied: 12/09/2005
Date Issued: 12/09/2005
Phone #: 909-888-8981
Phone #:

ELECTRICAL

Multi-Family Sq Ft: 0	Dwellings Sq Ft: 0	Commercial Sq Ft:	0
Service to 600 volts/ 200 amps:	0	**Power Apparatus.....**	
to 600 volts/1000 amps:	0	to 1 HP/KW/KVA:	0
> 600 volts/1000 amps:	0	to 10 HP/KW/KVA:	0
Temp Power Pole:	0	to 50 HP/KW/KVA:	0
Temp Distribution System:	0	to 100 HP/KW/KVA:	0
Recep/Switch/Outlets:	0	> 100 HP/KW/KVA:	0
Lighting Fixtures:	0	Busways:	0
Pole/Platform Lighting Fixtures:	0	Miscellaneous Apparatus:	0
Theatrical Lighting Fixtures:	0	Electrical Meter Reset:	0
Residential Appliance to 1 HP:	0	Each Additional Meter same lot:	0
NonResidential Appliance to 1 HP:	0	Electrical Meter Reset w/other work:	

MECHANICAL

Furnace to 100K BTU:	0	**Boilers/Compressors.....**	
Over 100K BTU:	0	to 3HP/ 100K BTU:	0
Floor Furnace:	0	to 15HP/ 500K BTU:	0
Suspended/Wall/Floor Heater:	0	to 30HP/1.00M BTU:	0
Appliance Vent:	0	to 50 HP/1.75M BTU:	0
Heating/Refr/Cooling Unit:	0	> 50HP/1.75M BTU:	0
Vent Fan/w Duct:	0	Miscellaneous Appliance/Equipment:	0
Vent System:	0	Domestic Incinerator:	0
Exhaust Hood:	0	Commercial/Industrial Incinerator:	0
Evaporative Cooler:	0		
Air Handlers to 10K CFM:	0		
over 10K CFM:	0		

PLUMBING

Fixtures/Traps:	0	Private Sewage Disposal System:	0
Building/Trailer Sewer:	0	Industrial Waste Pretreatment:	0
Water Heater/Vent:	0	**Backflow Protection.....**	
Gas Piping Outlets:	0	up to 2":	0
Water Piping:	0	over 2":	0
Drainage/Vent Piping:	0	Gas Meter Reset:	0
Lawn Sprinkler System:	0	Reset in Conjuncton w/other work:	0
Rainwater System/Drains:	0	Additional Meter Resets:	0
Atmospheric Breakers:	0		

DESCRIPTION

BLOCK WALL ON SIDE PROPERTY LINE AND SMALL WALL ON REAR
(150' X 6')PROPERTY LINE (20' X 6")
COMMENTS:

REPAIRS/REHAB

Number of Windows:	0		
Floor/Roof Sheeting Number of Sheets:	0	OR Square Footage:	0
Exterior Stucco in sq yds:	0	Value of Structural Repairs:	$0.00
Exterior Siding in sq yds:	0	Drywall Repair Number of Sheets:	0

????

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.
Friday (Alternating) — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.
Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural			
00010	Rough Grading		
00020	Setbacks		
00030	Foundation/Ftgs.		
00040	Slab Grade		
00080	Pool Pre-Gunite		
00090	Pool Pre-Plaster		
00100	Masonry & Steel (1st lift)		
00110	Masonry & Steel (2nd lift)		
00111	Masonry & Steel (3rd lift)		
00112	Masonry & Steel (4th lift)		
00115	Roof Sheathing		
00120	Roof Covering		
00130	Shear Nailing		
00140	Framing		
00180	Insulation		
00190	Exterior Lath or Siding		
00200	Stucco Scratch		
00210	Stucco Brown		
00240	Drywall	1-28-98	JM
00150	T-Bar		
00125	Reroof		
00320	Demolition		
00460	Misc.		
Other			
00470	Mobile Home Install		
00480	Awnings/Porches		

CODE #	INSPECTION TYPE	DATE	INTITIALS
Electrical			
00070	Temp Power Pole	11-24-97	RG
00060	Underground Electrical		
00162	UFER		
00160	Rough Electrical	12-18-97	JM
00275	Electrical Service	12	JM
00165	Misc. Electrical		
Plumbing			
00050	Underground Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test	1-28-98	JM
00235	Misc. Plumbing		
Mechanical			
00150	Rough Mechanical		
00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical	5-4-98	JD
00290	Final Plumbing	5-4-98	JD
00300	Final Mechanical		
00350	Final Construction	5-4-98	JD

Comments:

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

City Council Meeting - May 4th.

Click here for the Council meeting Wednesday, May 4th. The normally scheduled Closed Session starts at 5:30pm. Open Session starts at 7:00pm. Please see the agenda on how to submit public comments.

City of
San Bernardino
California

Permits Search results

Print Close

Permit Number	B0901675	Address	807 E NORMAN RD
Type / Classification	RES BLDG RHAB:RES REHAB BLDG:Building	Parcel Number	0280202070000
		Legal Description	TR NO 2228 VALLEY TRUCK FARMS NO 4 W 1/2 LOT 46 EX ST
File Date	10/5/2009		
Status	FINAL	Valuation	$5,600.00
Description	REHAB TO INC, RERO OF 16 SQ'S OF COMP SHINGLES, INSTALLATION OF A ROOF TOP HVAC UNIT, AND 8-NEW WINDOWS.	Fees	$163.47
		Payments	$163.47
		Balance	$0.00

Relationship	Name
APPLICANT	WILLIAMS, THOMAS

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 3 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
120	ROOF COVERING	1/5/2010	JGM	Approved: Approved	
125	REROOF	1/4/2010	JGM	Not Approved: NO ACCESS TO INSPECT	dogs in yard
350	BUILDING FINAL	1/5/2010	JGM	Approved: Approved	

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 1 Total

Payment Date	Payment ID	Payment Amount	Payment Type
10/5/2009	T000078049	$163.47	Credit Crd

Close

City Council Meeting - May 4th.

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City of
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Permits Search results

Print Close

Permit Number	B1100874	Address	807 E NORMAN RD
Type / Classification	RES BLDG	Parcel Number	0280202070000
	BWAL:BLOCK/GARDEN WALL	Legal Description	TR NO 2228 VALLEY TRUCK FARMS NO 4 W 1/2 LOT 46 EX ST
	BLDG:Building		
File Date	4/7/2011	Valuation	$22,880.00
Status	EXPIRED	Fees	$312.59
Description	CONSTRUCT 570' OF 6' HIGH BLOCK WALL AROUND PERIMITER OF PROPERTY	Payments	$281.48
		Balance	$31.11

Relationship	Name
APPLICANT	WILLIAMS, THOMAS

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 4 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
100	MASONRY AND STEEL 1	4/19/2011	DEZ	Approved: Approved	
110	MASONRY AND STEEL 2	5/17/2011	DEZ	Approved: Approved	
350	BUILDING FINAL	7/30/2012	SWM	Not Approved: Correction Written	1. PROVIDE A BRICK CAP OR FILL THE TOP OF THE WALL WITH GROUT TO PREVENT WATER FROM ENTERING THE WALL. THANK YOU, SCOTT MONTGOMERY
460	BUILDING MISCELLANEOUS	4/18/2011	SWM	Not Approved: Correction Written	1. PROVIDE A MINIMUM OF 3 INCHES OF SEPERATION BETWEEN THE STEEL AND THE SOIL AT ALL LOCATIONS. 2. REPAIR ALL TRENCH AREAS WHERE THE WALLS HAVE FALLEN IN. MAINTAIN THE FOOTING DIMENSIONS AS REQUIRED BY THE APPROVED PLANS. THANK YOU, SCOTT MONTGOMERY

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 1 Total

Payment Date	Payment ID	Payment Amount	Payment Type
4/7/2011	T000089253	$281.48	Credit Crd

Close

City Council Meeting - May 4th.

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City of
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Permits Search results

Print Close

Permit Number	B1100922	Address	807 E NORMAN RD
Type / Classification	RES BLDG	Parcel Number	0280202070000
	EPM:ELEC/PLUMB/MECH	Legal Description	TR NO 2228 VALLEY TRUCK FARMS NO 4 W 1/2 LOT 46 EX ST
	BLDG:Building		
File Date	4/13/2011	Valuation	$0.00
Status	EXPIRED	Fees	$104.00
Description	INSTALL NEW SUB PANEL FOR PARKING LOT LIGHTS	Payments	$104.00
		Balance	$0.00

Relationship	Name
APPLICANT	WILLIAMS, THOMAS

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 5 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
275	ELECTRICAL SERVICE	10/4/2012	SWM	Approved: Approved	
280	FINAL ELECTRICAL	10/4/2012	SWM	Not Approved: NOT READY	
280	FINAL ELECTRICAL	10/24/2012	MLH	Not Approved: Correction Written	PROVIDE ELECTRICAL ROOF JACK UPPER SIDE TO BE UNDER THE ROOFING MATERIAL, YOU CAN NOT US MASTIC ALL ROUND THE JACK BUT YOU CAN US IT AROUND THE PIPE AND JACK. THANK YOU MIKE HANSEN
280	FINAL ELECTRICAL	10/24/2012	MLH	Not Approved: Correction Written	PROVIDE ELECTRICAL ROOF JACK UPPER SIDE TO BE UNDER THE ROOFING MATERIAL, YOU CAN NOT US MASTIC ALL ROUND THE JACK BUT YOU CAN US IT AROUND THE PIPE AND JACK. THANK YOU MIKE HANSEN

814	METER RESET ELECTRICAL	10/4/2012	SWM	Not Approved: Cancelled

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 1 Total

Payment Date	Payment ID	Payment Amount	Payment Type
4/13/2011	T000089368	$104.00	Credit Crd

Close

City Council Meeting - May 4th.

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Permits Search results

Print Close

Permit Number	B1600512	Address	867 E NORMAN RD
Type / Classification	RES BLDG	Parcel Number	0280202090000
	BWAL:BLOCK/GARDEN WALL	Legal Description	TRACT 2228 LOT 45 TR NO 2228 VALLEY TRUCK FARMS NO 4 LOT 45 EX FLOOD CONTROL
	BLDG:Building		
File Date	3/7/2016	Valuation	$12,936.00
Status	FINAL	Fees	$284.51
Description	220 LF 8' TALL BLOCK WALL. ON REAR P.L. 121 LF AND SIDE P.L.'S 50 LF (FWP16-027)	Payments	$284.51
		Balance	$0.00

Relationship	Name
APPLICANT	ALEX M BELL

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 4 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
30	FOUNDATIONS	4/8/2016	GUILLEN_JO	Approved: Approved	Foundations for a 8 feet high block wall commercial #5 rebar 16 inches o.c. each way per plan ok.
30	FOUNDATIONS	4/8/2016	GUILLEN_JO	Approved: Approved	Foundations for a 8 feet high block wall commercial #5 rebar 16 inches o.c. each way per plan ok.
110	MASONRY AND STEEL 2	5/26/2016	GUILLEN_JO	Approved: Approved	Rebar inspection Ok no.# 5 Vertical and Horizontal ok. Block wall 8 feet high.ok to grout
350	BUILDING FINAL	6/1/2016	GUILLEN_JO	Approved: Approved	Steel inspection--2-3 and final 350 today for block wall 8 feet high.

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 2 Total

Payment Date	Payment ID	Payment Amount	Payment Type
3/7/2016	T000131767	$47.08	Credit Crd
4/7/2016	T000132732	$237.43	Credit Crd

Close

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Permits Search results

Print Close

Permit Number	B1601507	Address	807 E NORMAN RD
Type / Classification	BLDG	Parcel Number	0280202070000
	BWAL:BLOCK/GARDEN WALL	Legal Description	TR NO 2228 VALLEY TRUCK FARMS NO 4 W 1/2 LOT 46 EX ST
	BLDG:Building		
File Date	6/29/2016	Valuation	$0.00
Status	VOID	Fees	$103.00
Description	NEW 64-5" X 9'4" RETAINING WALL IN BACK OF PROPERTY WITH NEW STAIRS, 16 RISERS	Payments	$0.00
		Balance	$103.00

Relationship	Name
APPLICANT	WILLIAMS, THOMAS

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 0 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 0 Total

Payment Date	Payment ID	Payment Amount	Payment Type

Close

City Council Meeting - May 4th.

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City of
San Bernardino
California

Permits Search results

Print Close

Permit Number	B1800425	Address	807 E NORMAN RD
Type / Classification	BLDG	Parcel Number	0280202070000
	ACOM:ADD/ALTER COMMERCIAL	Legal Description	TR NO 2228 VALLEY TRUCK FARMS NO 4 W 1/2 LOT 46 EX ST
	BLDG:Building		
File Date	2/26/2018	Valuation	$3,793.20
Status	FINAL	Fees	$570.67
Description	CONSTRUCT NEW ACCESSIBLE RESTROOM IN EXISTING FLOOR AREA. (ADP17-042)	Payments	$570.67
		Balance	$0.00

Relationship	Name
APPLICANT	THOMAS WILLIAMS

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 12 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
30	FOUNDATIONS	5/14/2018	GUILLEN_JO	Approved: Approved	PRE SLAB ON GRADE INSPECTION NEED TO REMOVE ELECTRICAL PANEL BOX FROM NEW PROPOSED ADA TOILET ROOM. AND CHECK YOUR W.C. ADA DIMENSIONS BEFORE PURING OWNER AWARE.
30	FOUNDATIONS	5/9/2018	JM	Approved: Approved	Footings
125	REROOF	7/16/2018	GUILLEN_JO	Approved: Approved	ok
135	Combination - Framing & EPM	6/20/2018	Jose Guillen	Not Approved: Partial Approval	Need a flood test, abs Need to Add a dry vent to restroom.

160	ROUGH ELECTRICAL	6/26/2018	GUILLEN_JO	Not Approved: Partial Approval	
170	ROUGH PLUMBING	5/9/2018	JM	Approved: Approved	
180	INSULATION AND CERTIFICATE	6/21/2018	Jose Guillen	Not Approved: NOT READY	C.N.
180	INSULATION AND CERTIFICATE	6/26/2018	GUILLEN_JO	Not Approved: Partial Approval	
190	LATH/STUCCO MESH	6/27/2018	GUILLEN_JO	Approved: Approved	
240	DRYWALL	7/16/2018	GUILLEN_JO	Not Approved: Partial Approval	
350	BUILDING FINAL	8/28/2018	GUILLEN_JO	Not Approved: Correction Written	New Restroom is not complying with ADA Shower is not ADA Mising SIgn at door, mirror toilet paper dispenser, grabbars ADA Parking stall and signs and Lavy not ADA. SEE OFFLN PHOTOS
350	BUILDING FINAL	1/15/2019	RL	Approved: Approved	

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 3 Total

Payment Date	Payment ID	Payment Amount	Payment Type
2/28/2018	T000148677	$239.85	Cash
2/26/2018	T000148586	$141.60	Cash
5/7/2018	T000150390	$189.22	Cash

Close

Ste #: INSPECTOR AREA: 4

Address..:807 E NORMAN RD
Parcel...:0280-202-070000
Owner....:GARDINER MARTHA
Applicant:GARDINER WINE MARTHA
714-544-5073 714-544-5073

PERMIT #...:B9702429
Date Issued:11/07/1997
Permit Type:BLDG
Worker's Comp:Y

**********ELECTRICAL**********

Multi-fam Sq Ft:		SFD Sq Ft:	Commercial Sq Ft:
Service to 600vlt/ 200amp:	1	Power Apparatus	
to 600vlt/1000amp:		to 1 HP/KW/KVA.....	:
> 600vlt/1000amp:		to 10 HP/KW/KVA.....	:
Temp Power Pole.....:	1	to 50 HP/KW/KVA.....	:
Temp Dist System.....:		to 100 HP/KW/KVA.....	:
Recep/Swtch/Lt Outlet....:	4	> 100 HP/KW/KVA.....	:
Lighting Fixtures.....:		Busways.....	:
Pole/Pltfm Ltg Fixtures..:		Carnivals/Circuses	
Theatrical Ltg Fixtures..:		Generators & elec driven rides:	
Res Appl to 1HP.....:		Walk thru attractions.....:	
NonRes Appl to 1Hp.....:		Booth Lighting.....:	
Misc Apparatus.....:		Electrical meter reset.....:	
Each add'l meter same lot:		Elec meter reset w/other work.:	

**********MECHANICAL**********

Furnace to 100kBTU.....:		Boilers/Compressors	
over 100kBTU.....:		to 3HP/ 100K BTU.....:	
Floor Furnace.....:		to 15HP/ 500K BTU.....:	
Susp/Wall/Flr Htr.....:	1	to 30HP/1.00M BTU.....:	
Appliance Vent.....:		to 50HP/1.75M BTU.....:	
Htg/Refr/Cool Unit.....:		> 50HP/1.75M BTU.....:	
Vent Fan w/Duct.....:		Misc Appl/Equip.....:	
Vent System.....:		Domestic Incinerator.....:	
Exhaust Hood.....:		Comm/Ind Incinerator.....:	
Evaporative Cooler.....:		Fuel-gas piping.....:	
Air Handlers to 10kCFM...:		Gas-Hazardous.....:	
over 10KCFM...:		Gas-Non-Hazardout.....:	

**********PLUMBING**********

Fixtures/Traps.....:	3	Private Sewage Disposal.....:	
Bldg/Trailer Sewer.....:		Ind waste Pretreatment.....:	
Water Heater/Vent.....:	1	Backflow Protection	
Gas Piping Outlets.....:	1	up to 2".....:	
Water Piping.....:	1	over 2".....:	
Drainage/Vent Piping.....:		Gas Meter Reset.....:	
Lawn Sprinkler Sys.....:		Reset in conjunction	
Rainwater Sys, Drains....:		with other work.....:	1
Atmospheric Breakers.....:		Addit'l meter.....:	

**********REPAIRS/REHAB**********

Number of Windows: 5

Floor/Roof Sheathing:	No. Sheets:	OR Square Footage....:	
Exterior Stucco:	Sq. Yards:	Value of Struct Repair:	
Exterior Siding:	Sq. Yards:	Drywall Repair: # Shts:	20

REPLACE 2 SK,TOILET, WTR LINES,REPLACE DRYWALL
REPLACE 5 WINDOWS.

City of San Bernardino

Planning and Building Services

Permit Number

B9702429

(909) 384-5071 • Fax: (909) 384-5080 • http://www•cyberg8t•com

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 807 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: E.OF WATERMAN
Parcel No: 0280-202-070000

Status: ISSUED
Applied: 11/07/1997
Issued: 11/07/1997

Owner: GARDINER MARTHA
Address: 13271 WOODLAND DR
TUSTIN CA 92780

Phone: 714-544-5073

Contractor:
Address:

Phone:
License:
Wrks Cmp: Y

Arch/Eng:
Address:

Phone:
License:

BUILDING INFORMATION

Construction Type: TYPE V-Non-rated
Occupancy: R-3
Sprinklers:
Flood Plain Zone:
Fire Zone: N/A
Highwind:N
Planning No:
Zoning:
Planner:
Type of Permit: ADD/ALTER SINGLE FAMILY RES
REPLACE 2 SK,TOILET, WTR LINES,REPLACE DRYWALL
REPLACE 5 WINDOWS.

PERMIT VALUATION

Occupancy	Type	Factor	Sq. Feet	Valuation
		Subtotal:		.00
		Multiplier 1.00:		.00
		Addl Fixed Amount:		5,000.00
Table Date: 09/01/1987		Total Valuation:		5,000.00

FEE SUMMARY

Plan Check:	.00	Planning Review:	.00
Expeditious Review:	.00	Strong Motion:	.57
Other Plan Check:	.00	Verdemont:	.00
Building Permit:	72.00	Storm Drain:	.00
Elec Permit:	51.50	Traffic:	.00
Plumb Permit:	57.50	Sewer Connect:	.00
Mech Permit:	24.00	Parks & Rec:	.00
C of O:	.00	Cultural Dev:	.00
Other Bldg:	.00	Total Fees:	224.57
Investigation:	.00	Amount Received:	224.57
Building Repairs:	19.00	Balance Due:	.00
Hardship/Alternate:	.00		

CONDITIONS/COMMENTS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier State Fund (This section need not be completed if the permit

Policy Number 1490965-97 is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: Martha G. Wine Date: Nov. 7 97

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: Martha G. Wine Date: Nov. 7 97

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. M0502598 Expires: 6-6-98

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant: Martha G. Wine Date: Nov. 7 '97

Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Figs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Ste #: INSPECTOR AREA: 4

Address..:715 E NORMAN RD
Parcel...:0280-192-190000
Owner....:MILLER GARY
Applicant:MILLER GARY
818-889-4224 818-889-4224

PERMIT #...:B9801399
Date Issued:05/26/1998
Permit Type:BLDG
Worker's Comp:N

**********ELECTRICAL**********

Multi-fam Sq Ft: SFD Sq Ft: Commercial Sq Ft:

Service to 600vlt/ 200amp:
to 600vlt/1000amp:
> 600vlt/1000amp:
Temp Power Pole.....:
Temp Dist System.....:
Recep/Swtch/Lt Outlet....:
Lighting Fixtures.....:
Pole/Pltfm Ltg Fixtures..:
Theatrical Ltg Fixtures..:
Res Appl to 1HP.....:
NonRes Appl to 1Hp.....:
Misc Apparatus.....:
Each add'l meter same lot:

Power Apparatus
to 1 HP/KW/KVA.....:
to 10 HP/KW/KVA.....:
to 50 HP/KW/KVA.....:
to 100 HP/KW/KVA.....:
> 100 HP/KW/KVA.....:
Busways.....:
Carnivals/Circuses
Generators & elec driven rides:
Walk thru attractions.....:
Booth Lighting.....:
Electrical meter reset.....:
Elec meter reset w/other work.:

**********MECHANICAL**********

Furnace to 100kBTU.....:
over 100kBTU.....:
Floor Furnace.....:
Susp/Wall/Flr Htr.....:
Appliance Vent.....:
Htg/Refr/Cool Unit.....:
Vent Fan w/Duct.....:
Vent System.....:
Exhaust Hood.....:
Evaporative Cooler.....:
Air Handlers to 10kCFM...:
over 10KCFM...:

Boilers/Compressors
to 3HP/ 100K BTU.....:
to 15HP/ 500K BTU.....:
to 30HP/1.00M BTU.....:
to 50HP/1.75M BTU.....:
> 50HP/1.75M BTU.....:
Misc Appl/Equip.....:
Domestic Incinerator.....:
Comm/Ind Incinerator.....:
Fuel-gas piping.....:
Gas-Hazardous.....:
Gas-Non-Hazardout.....:

**********PLUMBING**********

Fixtures/Traps.....:
Bldg/Trailer Sewer.....:
Water Heater/Vent.....:
Gas Piping Outlets.....:
Water Piping.....:
Drainage/Vent Piping.....:
Lawn Sprinkler Sys.....:
Rainwater Sys, Drains....:
Atmospheric Breakers.....:

Private Sewage Disposal.....:
Ind waste Pretreatment.....:
Backflow Protection
up to 2".....:
over 2".....:
Gas Meter Reset.....:
Reset in conjunction
with other work.....:
Addit'l meter.....:

**********REPAIRS/REHAB**********

Number of Windows:
Floor/Roof Sheathing: No. Sheets: OR Square Footage....:
Exterior Stucco: Sq. Yards: Value of Struct Repair:
Exterior Siding: Sq. Yards: Drywall Repair: # Shts:

TEMP #8-ROOF RAFTERS,SHEATHING,COMPOSITION ROOF,
STUCCO, & REPLACE WINDOWS

City of San Bernardino

Planning and Building Services

Permit Number

B9801399

(909) 384-5071 • Fax: (909) 384-5080 • http://www•cyberg8t•com

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 715 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: WATERMAN
Parcel No: 0280-192-190000

Status: ISSUED
Applied: 05/28/1998
Issued: 05/26/1998

Owner: MILLER GARY
Address: P O BOX 1553
AGUORA CA 91376

Phone: 818-889-4224

Contractor:
Address:

Phone:
License:
Wrks Cmp: N

Arch/Eng:
Address:

Phone:
License:

BUILDING INFORMATION

Construction Type: TYPE V-Non-rated
Occupancy: R-3
Sprinklers:N
Flood Plain Zone: N
Fire Zone: N
Highwind:N
Planning No: N/A
Zoning:
Planner:
Type of Permit: RESIDENTIAL REHABILITATION
TEMP #8-ROOF RAFTERS,SHEATHING,COMPOSITION ROOF, STUCCO, & REPLACE WINDOWS

PERMIT VALUATION

Occupancy	Type	Factor	Sq. Feet	Valuation
		Subtotal:		.00
		Multiplier 1.00:		.00
		Addl Fixed Amount:		7,377.00
Table Date: 09/01/1987		Total Valuation:		7,377.00

FEE SUMMARY

Plan Check:	.00	Planning Review:	.00
Expeditious Review:	.00	Strong Motion:	.74
Other Plan Check:	.00	Verdemont:	.00
Building Permit:	99.00	Storm Drain:	.00
Elec Permit:	.00	Traffic:	.00
Plumb Permit:	.00	Sewer Connect:	.00
Mech Permit:	.00	Parks & Rec:	.00
C of O:	.00	Cultural Dev:	.00
Other Bldg:	.00	Total Fees:	99.74
Investigation:	.00	Amount Received:	99.80
Building Repairs:	.00	Balance Due:	.00
Hardship/Alternate:	.00		

CONDITIONS/COMMENTS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:

I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: _____

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:

❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:

I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: _____

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:

Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: _____

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
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00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Job Address: 715 E NORMAN. 1 APN. 0280-192-19

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418
DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-5078

PERMIT NUMBER B9801399

Date: 5-26-98

Plan Ck.# TEMP B

Job Address: 715 E NORMAN APN: 0280-192-19
Major Cross Sts: WATERMAN Tract/Lot:
Description of Project: CHANGE ROOF
NEW STUCCO PLASTER, Replacement 8 WINDOWS.

No. Rooms: 3 No. Stories: 1 Sq. Ft.: 884
Owner: GARY MILLER Owner/Bldr. Yes No
Mailing Address: P.O. BOX 1553
City/State: AZUSA, CA 91376 Zip: 91376 Tel.: 818) 8894224
Applicant/Contractor:
Address: OWNER
City/State: Zip: Tel.:
Contractor's State Lic. #: Bus. Lic.:
Arch./Engr./Designer: State Lic. No.:
Address:
City/State: Zip: Tel.:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW

Construction Type: Occupancy Type:
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No
High Fire: Yes No Zone

Pre-Permit/
Special Investigation No.:

Comments:

PLANNING REVIEW

Planning Case No.:
Zone: By:
Approval Date:
Comments:

CODE ENFORCEMENT

Case No.
Comments: NA

Workman's Comp. Insurance
Yes No
Issued by

***Before Issuing Permit** - Verify that the following applicable fees have been paid.*

6024 - Sewer Capacity / Cap Fees:
Date:
Recpt. No. NA
School District Fees:
Date:

Receipt No.: 699114
By: CAEM

Estimated Valuation: $ 7377.00
Bldg. Construction:
REROOF 950, STUCCO 134 LF,
REPL 8 WINDOWS
REBUILD ROOF RAFTERS, SHEATHING
Electrical:

Permit Fee: $15
Total Elec. Fees

Plumbing:

Permit Fee: $15
Total Plumb. Fees:

Heating & A/C

Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

4331	Total Elec/Plumb/Htg.	
4731	Pln. Check Dep.	
4731	Plan check Fees Balance	
4330	Building Permit Fees	99.00
4330	Investigation Fees	
4304	Sign Permit Fees	
4304	C. of O. Fee	
2321	Strong Motion Fees	.00

PLANNING DIVISION

4720	C. of O. Fee	
4720	Plan Review Fee	

ENGINEERING DIVISION

4818	Storm Drain Fees	
4822	Sewer Conn. Fees	
4803	Traffic Signal Fees	
4512	Verdemont Fees	

PARK & RECREATION

4732	Park Development Fees	

CULTURAL DEVELOP. FUND

4335	Cultural Development Fees	

Total Fees Due: 99.00

EXPIRATION

This permit shall be void and of no further force or effect if work is not commended within 180 days or if work is suspended or abandoned for a period of 180 days or more after work is commenced. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

Job Address: _____ **Permit No.** _____

CITY OF SAN BERNARDINO

BUILDING DEVELOPMENT PERMIT DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number _____

(This section need not be completed if the permit is valued at one hundred dollars ($100) or less.)

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: 5-26-98

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

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I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
☐ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

☐ No Construction Lender

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

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☐ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: 5/26/98

Owner ID verified by driver's license. ☐ Yes ☐ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

DIVISION OF INDUSTRIAL SAFETY PERMIT CERTIFICATION:
☐ I hereby certify that no excavation five (5) or more feet in depth into which a person is required to descend, will be made in connection with work authorized by this permit, and that no building structure, scaffolding, falsework, or demolition or dismantling thereof, will be more than thirty-six (36) feet high. (Chap. 3.2, Grp 2, Art 2, Sec. 341, Title 8, California Administrative Code).

☐ As owner-builder, I will not employ anyone to do work which would require a permit from the Division of Industrial Safety, as noted above, unless such person has a permit to do such work from the division.

Signature: _____ Date: _____

Division of Industrial Safety Permit No. _____

HAZARDOUS MATERIALS AND EMISSIONS CERTIFICATION:

1. Will the applicant or present or future building occupant need to file and certify a Business Plan for emergency response to release or threatened release of a hazardous material?
   Yes ☐ No ☐
   (Section 25505 of the California Health and Safety Code requires, with some exceptions, that a Business Plan be filed with the County of San Bernardino by every business which has at any one time during a reported year a quantity of hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

2. Does or will the applicant or present or future building occupant need to file a registration form for acutely hazardous materials?
   Yes ☐ No ☐
   (Section 25533 of the California Health and Safety Code, with some exceptions, requires registration with the County of San Bernardino by each business which at any one time has on hand a quantity of acutely hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

3. Does or will the applicant or present or future building occupant need to prepare an RMPP (Risk Management and Prevention Program for acutely hazardous materials)?
   Yes ☐ No ☐
   (Section 25534 of the California Health and Safety Code provides that the County of San Bernardino may require the preparation, certification and filing with the County of an RMPP by businesses which are required to register acutely hazardous materials with the County).

4. If an RMPP is presently required, has Section 25534 of the California Health and Safety Code been fully complied with?
   Yes ☐ No ☐

5. Does or will the applicant or present or future building occupant require for the work which is the subject of this application a permit for such construction or modification from the South Coast Air Quality Management District or from any other air pollution control district or agency?
   Yes ☐ No ☐
   (Section 65850.2 of the California Government Code requires that the requested information be furnished on applications for non-residential building permits).

6. Will any part of the facility to be constructed under this permit be within 1000 feet from the outer boundaries of a school?
   Yes ☐ No ☐
   (If "yes", the facility must meet the requirement of Sections 25534 and 42303 of the California Health and Safety Code).

7. If a permit from the South Coast Air Quality Management District or other air pollution control district or agency is required for the work which is the subject of this application, have all of the disclosures prescribed by California Health and Safety Code Section 42303 been made?
   Yes ☐ No ☐

8. (If "yes", attach certificate of compliance from the appropriate air pollution control officer).

CERTIFICATE OF COMPLIANCE: I certify that under penalty of perjury the information given above is correct. I agree to comply with all state laws and city ordinances regarding Hazardous Materials and Emissions.

Signature: _____ Date: _____

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: 5-26-98

_____ Date: _____

096

City of San Bernardino

Planning and Building Services

Permit Number

B9801585

(909) 384-5071 • Fax: (909) 384-5080 • http://www•cyberg8t•com

300 North "D" Street, San Bernardino, CA 92418

ELECTRICAL/PLUMBING/MECHANICAL PERMIT

Job Address: 715 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: WATERMAN
Parcel No: 0280-192-190000

Status: ISSUED
Applied: 06/17/1998
Issued: 06/17/1998

Applicant: MILLER GARY
Address: P O BOX 1553
AGUORA CA 91376
Phone: 818-889-4224

Owner: MILLER GARY
Address: P O BOX 1553
AGUORA CA 91376
Phone: 818-889-4224

Contractor:
Address:
Phone:
License:
Wrks Cmp: N

Arch/Eng:
Address:
Phone:
License:

INFORMATION

Zoning: N/A
Planner:
Pre-perm/Spec Inv #:
Code Compl #:

SCOPE OF PERMIT

REWIRE STRUCTURE, UPGRADE 100 AMP PANEL, 1 W/C,
2 SINKS, 1 LAV, 1 TUB, 1 WALL HEATER

FEE SUMMARY

Planning Review:	.00		
Elec Permit:	71.13	Expeditious Plan Ck:	.00
Plumb Permit:	52.50	Sewer Connect:	.00
Mech Permit:	24.00	Hourly Plan Ck:	.00
Elec Plan Ck:	.00	Total Fees:	147.63
Plumb Plan Ck:	.00	Amount Received:	147.63
Mech Plan Ck:	.00	Balance Due:	.00

COMMENTS/SPECIAL CONDITIONS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: _____

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: _____

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: _____

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
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Structural				**Electrical**			
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00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical	7.6.98	TJD
00080	Pool Pre-Gunite			00275	Electrical Service	7.31.98	TJD
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test	~~7.28.98~~ 7.31.98	TJD
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical	~~7.6.98~~	~~TJD~~
00190	Exterior Lath or Siding	7.6.98	TJD	00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown	~~7.30.98~~	TJD	00310	Irrigation/Landscaping		
00240	Drywall	7.6.98	TJD	00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical	7.31.98	TJD
Other				00290	Final Plumbing	7.31.98	TJD
00470	Mobile Home Install			00300	Final Mechanical	7.31.98	TJD
00480	Awnings/Porches			00350	Final Construction	7.31.98	TJD

Comments:

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
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- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

6074-3

Ste #: Inspector Area:4
Address..:715 E NORMAN RD PERMIT #...:B9801585
Parcel...:0280-192-190000 Date Issued:06/17/1998
Owner....:MILLER GARY Permit Type:EPM
Applicant:MILLER GARY Worker's Comp:N
818-889-4224 818-889-4224

********** ELECTRICAL **********

Multi-Family Sq Ft: SFD Sq FT: 1075 Commercial Sq Ft:

Service to 600vlt/ 200amp:	1	Power Apparatus	
to 600vlt/1000amp:		to 1 HP/KW/KVA.....	
> 600vlt/1000amp:		to 10 HP/KW/KVA.....	
Temp Power Pole.....		to 50 HP/KW/KVA.....	
Temp Dist System.....		to 100 HP/KW/KVA.....	
Recep/Swtch/Lt Outlet....		> 100 HP/KW/KVA.....	
Lighting Fixtures.....		Busways.....	
Pole/Pltfm Ltg Fixtures..		Carnivals/Circuses	
Theatrical Ltg Fixtures..		Generators & elec driven rides:	
Res Appl to 1HP.....		Walk thru attractions.....	
NonRes Appl to 1Hp.....		Booth Lighting.....	
Misc Apparatus.....		Electrical meter reset.....	
Elec meter reset w/other.:		Each add'l meter on same lot..:	

********** MECHANICAL **********

Furnace to 100kBTU.....		Boilers/Compressors	
over 100kBTU.....		to 3HP/ 100K BTU.....	
Floor Furnace.....		to 15HP/ 500K BTU.....	
Susp/Wall/Flr Htr.....	1	to 30HP/1.00M BTU.....	
Appliance Vent.....		to 50HP/1.75M BTU.....	
Htg/Refr/Cool Unit.....		> 50HP/1.75M BTU.....	
Vent Fan w/Duct.....		Misc Appl/Equip.....	
Vent System.....		Domestic Incinerator.....	
Exhaust Hood.....		Comm/Ind Incinerator.....	
Evaporative Cooler.....		Fuel-gas piping.....	
Air Handlers to 10kCFM...:		Gas-Hazardous.....	
over 10KCFM...:		Gas-Non-Hazardout.....	

********** PLUMBING **********

Fixtures/Traps.....	5	Private Sewage Disposal.....	
Bldg/Trailer Sewer.....		Ind waste Pretreatment.....	
Water Heater/Vent.....	1	Backflow Protection	
Gas Piping Outlets.....		up to 2".....	
Water Piping.....		over 2".....	
Drainage/Vent Piping.....		Gas Meter Reset.....	
Lawn Sprinkler Sys.....		Reset in conjunction	
Rainwater Sys, Drains....		with other work.....	
Atmospheric Breakers.....		Addit'l meter.....	

REWIRE STRUCTURE, UPGRADE 100 AMP PANEL, 1 W/C,
2 SINKS, 1 LAV, 1 TUB, 1 WALL HEATER

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

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Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing	7.698	JW	00170	Rough Plumbing		
00120	Roof Covering	7.31.98	JW	00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding	7698	JW	00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown Coat	7.20.98	JW	00310	Irrigation/Landscaping		
00240	Drywall	7.6.98	JW	00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction	9.3.98	JW

Comments:

Permittee Responsibility

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INSPECTION RECORD

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(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
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00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service	8/12/99	TD
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test	8-12-99	TD
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing Windows	8-12-99	TD	**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing	8-12-99	TD
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Comments: GAS METER INSTALLED WITHOUT A GAS TEST BY CITY.

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- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

Exp. 2-12-00

Ste #: INSPECTOR AREA: 4

Address...:707 E NORMAN RD
Parcel...:0280-192-200000
Owner....:MILLER GARY P.O. BOX 1553
Applicant:MILLER GARY AGUORA, CA 91376
818-889-4224 818-889-4224

PERMIT #...:B9900493
Date Issued:03/08/1999
Permit Type:BLDG
Worker's Comp:N

********** ELECTRICAL **********

Multi-fam Sq Ft: SFD Sq Ft: Commercial Sq Ft:

Service to 600vlt/ 200amp:		Power Apparatus	
to 600vlt/1000amp:		to 1 HP/KW/KVA:	
> 600vlt/1000amp:		to 10 HP/KW/KVA:	
Temp Power Pole:		to 50 HP/KW/KVA:	
Temp Dist System:		to 100 HP/KW/KVA:	
Recep/Swtch/Lt Outlet:		> 100 HP/KW/KVA:	
Lighting Fixtures:		Busways:	
Pole/Pltfm Ltg Fixtures:		Carnivals/Circuses	
Theatrical Ltg Fixtures:		Generators & elec driven rides:	
Res Appl to 1HP:		Walk thru attractions:	
NonRes Appl to 1Hp:		Booth Lighting:	
Misc Apparatus:		Electrical meter reset:	1
Each add'l meter same lot:		Elec meter reset w/other work:	

********** MECHANICAL **********

Furnace to 100kBTU:		Boilers/Compressors	
over 100kBTU:		to 3HP/ 100K BTU:	
Floor Furnace:		to 15HP/ 500K BTU:	
Susp/Wall/Flr Htr:	1	to 30HP/1.00M BTU:	
Appliance Vent:		to 50HP/1.75M BTU:	
Htg/Refr/Cool Unit:		> 50HP/1.75M BTU:	
Vent Fan w/Duct:		Misc Appl/Equip:	
Vent System:		Domestic Incinerator:	
Exhaust Hood:		Comm/Ind Incinerator:	
Evaporative Cooler:		Fuel-gas piping:	
Air Handlers to 10kCFM:		Gas-Hazardous:	
over 10KCFM:		Gas-Non-Hazardout:	

********** PLUMBING **********

Fixtures/Traps:	4	Private Sewage Disposal:	
Bldg/Trailer Sewer:		Ind waste Pretreatment:	
Water Heater/Vent:	1	Backflow Protection	
Gas Piping Outlets:		up to 2":	
Water Piping:		over 2":	
Drainage/Vent Piping:		Gas Meter Reset:	
Lawn Sprinkler Sys:		Reset in conjunction	
Rainwater Sys, Drains:		with other work:	
Atmospheric Breakers:		Addit'l meter:	

**********REPAIRS/REHAB**********

Number of Windows: 12

Floor/Roof Sheathing: No. Sheets:		OR Square Footage:
Exterior Stucco: Sq. Yards:		Value of Struct Repair:
Exterior Siding: Sq. Yards:		Drywall Repair: # Shts:

TEAR OFF EXISTING & REROOF W/ COMP SHINGLES, ELEC.
WALL HTR, WATER HEATER, PLUMBING FIX, 12-WINDOWS,
TUB, SINKS, WATER CLOSET, ELEC.MTR

City of San Bernardino

Development Services Department

Permit Number

B9900493

(909) 384-5071 • Fax: (909) 384-5080 • www.ci.san-bernardino.ca.us

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 707 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: WATERMAN
Parcel No: 0280-192-200000

Status: ISSUED
Applied: 03/08/1999
Issued: 03/08/1999

Owner: MILLER GARY
Address: PO BOX 1553
AGOOURA CA 91376

Phone: 818-889-4224

Contractor:
Address:

Phone:
License:
Wrks Cmp: N

Arch/Eng:
Address:

Phone:
License:

BUILDING INFORMATION

Construction Type: Occupancy: Sprinklers:
Flood Plain Zone: Fire Zone: N Highwind:N
Planning No: Zoning: Planner:
Type of Permit: RESIDENTIAL REHABILITATION
TEAR OFF EXISTING & REROOF W/ COMP SHINGLES,ELEC.
WALL HTR,WATER HEATER,PLUMBING FIX,12-WINDOWS,
TUB,SINKS,WATER CLOSET, ELEC. MTR

PERMIT VALUATION

Occupancy Type	Factor	Sq. Feet	Valuation
Table Date: 09/01/1987	Total Valuation:		.00

FEE SUMMARY

Plan Check:	.00	Planning Review:	.00
Expeditious Review:	.00	Strong Motion:	.50
Other Plan Check:	.00	Verdemont:	.00
Building Permit:	.00	Storm Drain:	.00
Elec Permit:	46.00	Traffic:	.00
Plumb Permit:	37.50	Sewer Connect:	.00
Mech Permit:	15.00	Parks & Rec:	.00
C of O:	.00	Cultural Dev:	.00
Other Bldg:	.00	Hardship/Alternate:	.00
Investigation:	.00	Building Issuance:	15.00
Building Repairs:	72.00	Total Fees:	186.00

CONDITIONS/COMMENTS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

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Applicant Signature: _____ Date: 3-8-99

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

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OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: _____

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. E0826903 Expires: 9-5-2000

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: 3-8-99

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: _____

Address: 707 E Noeman Date 6/17/99

- CORRECTION NOTICE -

Permit No. B9900493

Inspection Type: Final - cont

11) Provide temporary power to test GFCI receptacles by means of generator etc. NO

12) Provide minimum of 1" clearance to combustible materials for 'B' vent at water heater OK

13) Flashing for roof penetrations shall be installed under the roof covering.

14) remove all trash & debris NO

15) expose window framing for 12 window change out. OK

16) The house has been rehabilitated without any INspections.

Thank you

Page 2 of 2

Al Johnson
Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☒ Please Make Corrections and Call for Reinspection

☐ Please Make Corrections and Proceed.

PLAN-4.06/bld (1-99)

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: _____

Address: 707 E NORMAN Date 6/17/99

- CORRECTION NOTICE -

Permit No. BSG00453

Inspection Type: FINAL

1) Repair light fixture at front porch.
2) Provide weather resistant cover for exterior GFCI receptacle at front porch. OK
3) GAS TEST FAILS. GAUGE SHALL HOLD 10 PSI FOR MINIMUM 15 MINUTES NO
4) PROVIDE MOISTURE RESISTANT SURFACE IN SHOWER TO A POINT 70" above the DRAIN. ~~NO~~ OK
5) CAULK BASE OF TUB NO
6) CAULK AROUND BASE OF WATER CLOSET OK
7) PROVIDE MISSING BLANKS FOR NO DEAD FRONT COVER OF ELECTRICAL PANEL
8) BLACK CONDUCTOR SHALL BE USED AS UNGROUNDED OR HOT CONDUCTOR OK
9) WHITE CONDUCTOR SHALL BE USED AS GROUNDED CONDUCTOR OR NEUTRAL OK
10) GROUNDING ELECTRODE CONDUCTOR SHALL EXTEND DIRECTLY TO THE GROUND ROD. OK

Page 1 of 2

Thank you

M Johnson

Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☑ Please Make Corrections and Call for Reinspection

☐ Please Make Corrections and Proceed.

PLAN-4.05/bld (1-99)

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: Owner/Builder

Address: 705 E Norman Date 8-12-99

- CORRECTION NOTICE -

Permit No. B9900493

Inspection Type: final

1 INSTALL BLANKS FOR MISSING BREAKERS IN DEAD FRONT COVER
2. INSTALL MISSING MAIN BREAKER
3. PROVIDE POWER TO ELECTRICAL SO GFCI RECEPTICALS CAN BE CHECKED
4 INSTALL CAULK AT BATH TUB AT FLOOR OK TO
5 REMOVE OR STORE HOUSE HOLD ITEMS AND BOXES OUTSIDE THE HOUSE. YOU MAY BUILD A STORAGE SHED 120 SQUARE FOOT AREA OR LESS W. THOUT PERMITS
6 REMOVE GREEN TAPE ON SERVICE ENTRANCE CONDUCTOR. OK TO
7. REPAIR ELECT. TEST SHOWS NO GROUND. INSTALL GFCI'S OR 2 PRONG OUTLETS

THANK YOU

Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☒ Please Make Corrections and Call for Reinspection

☐ Please Make Corrections and Proceed.

PLAN-4.06/bld (1-99)

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.
Friday (Alternating) — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.
Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction	7-2600	

Comments:

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

Suite #: **Inspector Area:** 4 **Permit #:** B0001519

Address: 707 E NORMAN RD SB
Parcel #: 0280-192-20-0000
Owner: MILLER GARY
Contractor:
Workers Comp; N

Date Issued:
Permit Type: BLDG
Phone #:
Phone #:

ELECTRICAL

Multi-Family Sq Ft: 0	Dwellings Sq Ft: 0	Commercial Sq Ft:	0
Service to 600 volts/ 200 amps:	0	**Power Apparatus.....**	
to 600 volts/1000 amps:	0	to 1 HP/KW/KVA:	0
> 600 volts/1000 amps:	0	to 10 HP/KW/KVA:	0
Temp Power Pole:	0	to 50 HP/KW/KVA:	0
Temp Distribution System:	0	to 100 HP/KW/KVA:	0
Recep/Switch/Outlets:	0	> 100 HP/KW/KVA:	0
Lighting Fixtures:	0	Busways:	0
Pole/Platform Lighting Fixtures:	0	Miscellaneous Apparatus:	0
Theatrical Lighting Fixtures:	0	Electrical Meter Reset:	0
Residential Appliance to 1 HP:	0	Each Additional Meter same lot:	0
NonResidential Appliance to 1 HP:	0	Electrical Meter Reset w/other work:	

MECHANICAL

Furnace to 100K BTU:	0	**Boilers/Compressors.....**	
Over 100K BTU:	0	to 3HP/ 100K BTU:	0
Floor Furnace:	0	to 15HP/ 500K BTU:	0
Suspended/Wall/Floor Heater:	0	to 30HP/1.00M BTU:	0
Appliance Vent:	0	to 50 HP/1.75M BTU:	0
Heating/Refr/Cooling Unit:	0	> 50HP/1.75M BTU:	0
Vent Fan/w Duct:	0	Miscellaneous Appliance/Equipment:	0
Vent System:	0	Domestic Incinerator:	0
Exhaust Hood:	0	Commercial/Industrial Incinerator:	0
Evaporative Cooler:	0		
Air Handlers to 10K CFM:	0		
over 10K CFM:	0		

PLUMBING

Fixtures/Traps:	0	Private Sewage Disposal System:	0
Building/Trailer Sewer:	0	Industrial Waste Pretreatment:	0
Water Heater/Vent:	0	**Backflow Protection.....**	
Gas Piping Outlets:	0	up to 2":	0
Water Piping:	0	over 2":	0
Drainage/Vent Piping:	0	Gas Meter Reset:	0
Lawn Sprinkler System:	0	Reset in Conjuncton w/other work:	0
Rainwater System/Drains:	0	Additional Meter Resets:	0
Atmospheric Breakers:	0		

DESCRIPTION

FINAL INSPECTION OF EXPIRED PERMIT B9900493 TEAR OFF
EXISTING & REROOF W/ COMP SHINGLES,ELEC. WALL HTR,WATER
HEATER,PLUMBING FIX,12-WINDOWS, TUB,SINKS,WATER
CLOSET,ELEC.MTR

REPAIRS/REHAB

Number of Windows:	0		
Floor/Roof Sheeting Number of Sheets:	0	OR Square Footage:	0
Exterior Stucco in sq yds:	0	Value of Structural Repairs:	$0.00
Exterior Siding in sq yds:	0	Drywall Repair Number of Sheets:	0

City of San Bernardino

Development Services Department

Permit Number

B0001519

(909) 384-5071 • Fax: (909) 384-5080 • www.ci.san-bernardino.ca.us

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 707 E NORMAN RD
Suite #:
Parcel: 0280192200000
Tract/Lot#:

Status: APPLIED
Applied: 06/20/2000
Issued:

Owner: MILLER GARY
Address: 6794 OAK FOREST DR
AGOURA HILLS CA91377-3833
Phone: (818) 889-4224

Contractor:
Address:
Phone:
License:

Architect:
Address:
Phone:
License:

Engineer:
Address:
Phone:
License:

Building Information

Construction Type:
Occupancy:
Sprinklers:
Flood Plain Zone:
Fire Zone: N
Highwind: N

Description/Valuation

Type of Permit: FINAL INSPECTION OF [redacted] PERMIT B9900493 TEAR OFF EXISTING & REROOF W/ COMP SHINGLES,ELEC. WALL HTR,WATER HEATER,PLUMBING FIX,12-WINDOWS, TUB,SINKS,WATER CLOSET,ELEC.MTR

Occupancy	Type	Factor	Sq Feet	
Totals...				$0.00*

Fee Summary

Plan Check:	$0.00	Planning Review:	$0.00
Other Plan Check:	$0.00	Strong Motion:	$0.00
Expeditious:	$0.00	Verdemont:	$0.00
Building Permit:	$0.00	Storm Drain:	$0.00
Electrical Permit:	$0.00	Traffic:	$0.00
Plumbing Permit:	$0.00	Sewer Connection:	$0.00
Mechanical Permit:	$0.00	Parks / Recreation:	$0.00
Certificate of Occupancy:	$0.00	Cultural Development:	$0.00
Other Building Fees:	$60.00	Hardship/Alternate:	$0.00
Special Investigation:	$0.00	Total Fees:	$60.00
Building Issuance:	$0.00	Amount Received:	$60.00
Building Repairs/Rehab:	$0.00	Balance Due:	$0.00

Comments

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

PLAN-21.01/pg-1 (9-96)

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:

I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: 6-21-00

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:

❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:

I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: 6-21-00

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. C0828903 Expires: 9-5-00

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:

Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: 6-21-00

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: 707 E Normal Rd

Address: _____ Date 7-26-00 7:40 pm

- CORRECTION NOTICE -

Permit No. B0001519

Inspection Type: FINAL

1. SECURE WATER HEATER CABINET
2. WASHING MACHINES & DRYERS CANNOT BE VENTED OUTDOORS OR DRAIN ON TOP OF THE GROUND
3. OBTAIN PERMITS & INSPECTIONS FOR NEW PLUMBING THAT HAS BEEN INSTALLED

Thank You

Jack Nunn

Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☐ Please Make Corrections and Call for Reinspection

☒ Please Make Corrections and Proceed.

PLAN-4.06/bld (1-99)

DECLARATIONS

Permit No. B090425-27

1. CALIFORNIA LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class C20 License No. 834583

Contractor Signature By CAPSBC Date 08/19/09

2. OWNER-BUILDER'S DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason(s) indicated below by the checkmark(s) I have placed next to the applicable item(s) (Section 7031.5, Business and Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

( ) **I, as owner of the property, or my employees with wages as their sole compensation, will do ( ) all of *or* ( ) portions of the work,** and the structure is not intended or offered for sale (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale.).

( ) **I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project** (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractors' State License Law.).

( ) **I am exempt from licensure under the Contractors' State License Law for the following reason:** _____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following Web site: http://www.leginfo.ca.gov/calaw.html.

Property Owner or Authorized Agent (Print Name) Ramona Glavic, CAPSBC

Signature By Glavic, By Date 08/19/09

3. WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

( ) **I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations** as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. Policy No. _____

( ) **I have and will maintain workers' compensation insurance,** as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier U.S. Fire Ins. Co. Policy No 408698207 Expiration Date 07/01/10

Name of Agent R Spencer Phone No. 909) 723-1623

( ) **I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California,** and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Signature of Applicant: Ramona Glavic By Date: 08/19/09

4. DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).

Lender's Name _____ Lender's Address: _____

5. CAL-OSHA AND HAZARDOUS MATERIAL DECLARATION

Will there be any excavation five (5) or more feet in depth into which a person will be required to descend? ( ) Yes (X) No

Will the building or tenant space be used to store or display any hazardous materials? ( ) Yes (X) No

6. Declaration of Compliance and Authorization for Entry: By my signature below, I certify to each of the following:

I am the property owner or I have been authorized to act on the property owner's behalf.

I have read this construction permit application and the information I have provided is true and correct.

I agree to comply with all applicable city and county ordinances and state laws relating to building construction.

I authorize representatives of the city of San Bernardino to enter the above-identified property for inspection purposes.

Signature of Licensed Contractor, Property Owner* or Authorized Agent** By CAPSBC Date 08/19/09

* Requires completed "Notice to Property Owner" Form

** Requires the owner to complete "Authorization of Agent" Form

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.
Friday (Alternating) — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.
Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service	8/12/99	TD
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test	8-12-99	TD
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing Windows	8-12-99	TD	**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing	8-12-99	TD
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Comments: GAS METER INSTALLED WITHOUT A GAS TEST BY CITY.

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

Exp. 2-12-00

Ste #: INSPECTOR AREA: 4

Address...:707 E NORMAN RD
Parcel...:0280-192-200000
Owner....:MILLER GARY P.O. BOX 1553
Applicant:MILLER GARY AGUORA, CA 91376
818-889-4224 818-889-4224

PERMIT #...:B9900493
Date Issued:03/08/1999
Permit Type:BLDG
Worker's Comp:N

********** ELECTRICAL **********

Multi-fam Sq Ft: SFD Sq Ft: Commercial Sq Ft:

Service to 600vlt/ 200amp:		Power Apparatus	
to 600vlt/1000amp:		to 1 HP/KW/KVA:	
> 600vlt/1000amp:		to 10 HP/KW/KVA:	
Temp Power Pole:		to 50 HP/KW/KVA:	
Temp Dist System:		to 100 HP/KW/KVA:	
Recep/Swtch/Lt Outlet:		> 100 HP/KW/KVA:	
Lighting Fixtures:		Busways:	
Pole/Pltfm Ltg Fixtures:		Carnivals/Circuses	
Theatrical Ltg Fixtures:		Generators & elec driven rides:	
Res Appl to 1HP:		Walk thru attractions:	
NonRes Appl to 1Hp:		Booth Lighting:	
Misc Apparatus:		Electrical meter reset:	1
Each add'l meter same lot:		Elec meter reset w/other work:	

********** MECHANICAL **********

Furnace to 100kBTU:		Boilers/Compressors	
over 100kBTU:		to 3HP/ 100K BTU:	
Floor Furnace:		to 15HP/ 500K BTU:	
Susp/Wall/Flr Htr:	1	to 30HP/1.00M BTU:	
Appliance Vent:		to 50HP/1.75M BTU:	
Htg/Refr/Cool Unit:		> 50HP/1.75M BTU:	
Vent Fan w/Duct:		Misc Appl/Equip:	
Vent System:		Domestic Incinerator:	
Exhaust Hood:		Comm/Ind Incinerator:	
Evaporative Cooler:		Fuel-gas piping:	
Air Handlers to 10kCFM:		Gas-Hazardous:	
over 10KCFM:		Gas-Non-Hazardout:	

********** PLUMBING **********

Fixtures/Traps:	4	Private Sewage Disposal:	
Bldg/Trailer Sewer:		Ind waste Pretreatment:	
Water Heater/Vent:	1	Backflow Protection	
Gas Piping Outlets:		up to 2":	
Water Piping:		over 2":	
Drainage/Vent Piping:		Gas Meter Reset:	
Lawn Sprinkler Sys:		Reset in conjunction	
Rainwater Sys, Drains:		with other work:	
Atmospheric Breakers:		Addit'l meter:	

**********REPAIRS/REHAB**********

Number of Windows: 12

Floor/Roof Sheathing: No. Sheets:		OR Square Footage:
Exterior Stucco: Sq. Yards:		Value of Struct Repair:
Exterior Siding: Sq. Yards:		Drywall Repair: # Shts:

TEAR OFF EXISTING & REROOF W/ COMP SHINGLES, ELEC.
WALL HTR, WATER HEATER, PLUMBING FIX, 12-WINDOWS,
TUB, SINKS, WATER CLOSET, ELEC.MTR

City of San Bernardino

Development Services Department

Permit Number

B9900493

(909) 384-5071 • Fax: (909) 384-5080 • www.ci.san-bernardino.ca.us

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 707 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: WATERMAN
Parcel No: 0280-192-200000

Status: ISSUED
Applied: 03/08/1999
Issued: 03/08/1999

Owner: MILLER GARY
Address: PO BOX 1553
AGOOURA CA 91376

Phone: 818-889-4224

Contractor:
Address:

Phone:
License:
Wrks Cmp: N

Arch/Eng:
Address:

Phone:
License:

BUILDING INFORMATION

Construction Type: Occupancy: Sprinklers:
Flood Plain Zone: Fire Zone: N Highwind:N
Planning No: Zoning: Planner:
Type of Permit: RESIDENTIAL REHABILITATION
TEAR OFF EXISTING & REROOF W/ COMP SHINGLES,ELEC.
WALL HTR,WATER HEATER,PLUMBING FIX,12-WINDOWS,
TUB,SINKS,WATER CLOSET, ELEC. MTR

PERMIT VALUATION

Occupancy Type	Factor	Sq. Feet	Valuation
Table Date: 09/01/1987	Total Valuation:		.00

FEE SUMMARY

Plan Check:	.00	Planning Review:	.00
Expeditious Review:	.00	Strong Motion:	.50
Other Plan Check:	.00	Verdemont:	.00
Building Permit:	.00	Storm Drain:	.00
Elec Permit:	46.00	Traffic:	.00
Plumb Permit:	37.50	Sewer Connect:	.00
Mech Permit:	15.00	Parks & Rec:	.00
C of O:	.00	Cultural Dev:	.00
Other Bldg:	.00	Hardship/Alternate:	.00
Investigation:	.00	Building Issuance:	15.00
Building Repairs:	72.00	Total Fees:	186.00

CONDITIONS/COMMENTS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: 3-8-99

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: _____

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. E0826903 Expires: 9-5-2000

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: 3-8-99

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: _____

Address: 707 E Noeman Date 6/17/99

- CORRECTION NOTICE -

Permit No. B9900493

Inspection Type: Final - cont

11) Provide temporary power to test GFCI receptacles by means of generator etc. NO

12) Provide minimum of 1" clearance to combustible materials for 'B' vent at water heater OK

13) Flashing for roof penetrations shall be installed under the roof covering.

14) remove all trash & debris NO

15) expose window framing for 12 window change out. OK

16) The house has been rehabilitated without any INspections.

Thank you

Page 2 of 2

Al Johnson
Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☒ Please Make Corrections and Call for Reinspection

☐ Please Make Corrections and Proceed.

PLAN-4.06/bld (1-99)

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: _____

Address: 707 E NORMAN Date 6/17/99

- CORRECTION NOTICE -

Permit No. BSG00453

Inspection Type: FINAL

1) Repair light fixture at front porch.
2) Provide weather resistant cover for exterior GFCI receptacle at front porch. OK
3) GAS TEST FAILS. GAUGE SHALL HOLD 10 PSI FOR MINIMUM 15 MINUTES NO
4) PROVIDE MOISTURE RESISTANT SURFACE IN SHOWER TO A POINT 70" above the DRAIN. ~~NO~~ OK
5) CAULK BASE OF TUB NO
6) CAULK AROUND BASE OF WATER CLOSET OK
7) PROVIDE MISSING BLANKS FOR NO DEAD FRONT COVER OF ELECTRICAL PANEL
8) BLACK CONDUCTOR SHALL BE USED AS UNGROUNDED OR HOT CONDUCTOR OK
9) WHITE CONDUCTOR SHALL BE USED AS GROUNDED CONDUCTOR OR NEUTRAL OK
10) GROUNDING ELECTRODE CONDUCTOR SHALL EXTEND DIRECTLY TO THE GROUND ROD. OK

Page 1 of 2

Thank you

M Johnson

Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☑ Please Make Corrections and Call for Reinspection

☐ Please Make Corrections and Proceed.

PLAN-4.05/bld (1-99)

City of San Bernardino Department of Development Services

BUILDING DIVISION

Phone: 384-5071

To: Owner/Builder

Address: 705 E Norman Date 8-12-99

- CORRECTION NOTICE -

Permit No. B9900493

Inspection Type: final

1 INSTALL BLANKS FOR MISSING BREAKERS IN DEAD FRONT COVER
2. INSTALL MISSING MAIN BREAKER
3. PROVIDE POWER TO ELECTRICAL SO GFCI RECEPTICALS CAN BE CHECKED
4 INSTALL CAULK AT BATH TUB AT FLOOR OK TO
5 REMOVE OR STORE HOUSE HOLD ITEMS AND BOXES OUTSIDE THE HOUSE. YOU MAY BUILD A STORAGE SHED 120 SQUARE FOOT AREA OR LESS W. THOUT PERMITS
6 REMOVE GREEN TAPE ON SERVICE ENTRANCE CONDUCTOR. OK TO
7. REPAIR ELECT. TEST SHOWS NO GROUND. INSTALL GFCI'S OR 2 PRONG OUTLETS

THANK YOU

Inspector

Inspector's Office Hours 7:30 - 8:30 a.m.

☒ Please Make Corrections and Call for Reinspection

☐ Please Make Corrections and Proceed.

PLAN-4.06/bld (1-99)

-- BUYER/BORROWER CLOSING STATEMENT -- SETTLEMENT DATE: 03/05/99

JM ESCROW, INC.
245 NORTH EUCLID AVENUE
UPLAND, CA 91786
PHONE: 909-981-0743 FAX: 909-949-0893
Escrow Officer: Christy Menke
Escrow Number: 18045-CM
Property Address: 24499 Norman Road San Bernardino, CA 92408

Escrow Statement of
Gary Miller

6794 Oak Forest Drive
Agoura Hills, CA 91301

		DEBIT	CREDIT
Consideration		15,000.00	
All Other Buyer Deposits			16,000.00
Gary Miller	Incoming Wire	16,000.00	
PRORATES & ADJUSTMENTS:			
County Tax $	196.25 Per/Halffrom 01/01/99 to 03/05/99		68.67
EXISTING LOANS:			
COSTS, CHARGES & OTHER DISBURSEMENTS:			
ESCROW FEES & CHARGES:			
Settlement/closing fee		350.00	
Document preparation		30.00	
TITLE FEES & CHARGES:			
2nd Half 98/99 Taxes		196.25	
Recording fees		31.00	
Balance: (Check Enclosed Herewith)		461.42	
TOTAL DEBITS:		16,068.67	
TOTAL CREDITS:			16,068.67

I HEREBY CERTIFY THAT THIS IS
A TRUE AND CORRECT COPY OF
THE ORIGINAL THEREOF.
JM ESCROW, INC. BY

City of San Bernardino Department of Planning & Building Services

BUILDING DIVISION

Phone: 384-5071

To: _____

Address: 707 E Norman Date 5/24/99

- CORRECTION NOTICE -

Permit No. [ ]

Inspection Type: Reroof

1) install flashing under the roofing material

2) Use approved ridge material at ridge

Thank you

Al Johnson
Inspector

Inspector's
Office Hours
7:30 - 8:30 a.m.

☑ Please Make Corrections and Call for Reinspection
☐ Please Make Corrections and Proceed.

PLAN-4.06/bld (2-95)

Ste #: INSPECTOR AREA: 4

Address..:715 E NORMAN RD
Parcel...:0280-192-190000
Owner....:MILLER GARY
Applicant:MILLER GARY
818-889-4224 818-889-4224

PERMIT #...:B9801399
Date Issued:05/26/1998
Permit Type:BLDG
Worker's Comp:N

**********ELECTRICAL**********

Multi-fam Sq Ft: SFD Sq Ft: Commercial Sq Ft:

Service to 600vlt/ 200amp:
to 600vlt/1000amp:
> 600vlt/1000amp:
Temp Power Pole.....:
Temp Dist System.....:
Recep/Swtch/Lt Outlet....:
Lighting Fixtures.....:
Pole/Pltfm Ltg Fixtures..:
Theatrical Ltg Fixtures..:
Res Appl to 1HP.....:
NonRes Appl to 1Hp.....:
Misc Apparatus.....:
Each add'l meter same lot:

Power Apparatus
to 1 HP/KW/KVA.....:
to 10 HP/KW/KVA.....:
to 50 HP/KW/KVA.....:
to 100 HP/KW/KVA.....:
> 100 HP/KW/KVA.....:
Busways.....:
Carnivals/Circuses
Generators & elec driven rides:
Walk thru attractions.....:
Booth Lighting.....:
Electrical meter reset.....:
Elec meter reset w/other work.:

**********MECHANICAL**********

Furnace to 100kBTU.....:
over 100kBTU.....:
Floor Furnace.....:
Susp/Wall/Flr Htr.....:
Appliance Vent.....:
Htg/Refr/Cool Unit.....:
Vent Fan w/Duct.....:
Vent System.....:
Exhaust Hood.....:
Evaporative Cooler.....:
Air Handlers to 10kCFM...:
over 10KCFM...:

Boilers/Compressors
to 3HP/ 100K BTU.....:
to 15HP/ 500K BTU.....:
to 30HP/1.00M BTU.....:
to 50HP/1.75M BTU.....:
> 50HP/1.75M BTU.....:
Misc Appl/Equip.....:
Domestic Incinerator.....:
Comm/Ind Incinerator.....:
Fuel-gas piping.....:
Gas-Hazardous.....:
Gas-Non-Hazardout.....:

**********PLUMBING**********

Fixtures/Traps.....:
Bldg/Trailer Sewer.....:
Water Heater/Vent.....:
Gas Piping Outlets.....:
Water Piping.....:
Drainage/Vent Piping.....:
Lawn Sprinkler Sys.....:
Rainwater Sys, Drains....:
Atmospheric Breakers.....:

Private Sewage Disposal.....:
Ind waste Pretreatment.....:
Backflow Protection
up to 2".....:
over 2".....:
Gas Meter Reset.....:
Reset in conjunction
with other work.....:
Addit'l meter.....:

**********REPAIRS/REHAB**********

Number of Windows:
Floor/Roof Sheathing: No. Sheets: OR Square Footage....:
Exterior Stucco: Sq. Yards: Value of Struct Repair:
Exterior Siding: Sq. Yards: Drywall Repair: # Shts:

TEMP #8-ROOF RAFTERS,SHEATHING,COMPOSITION ROOF,
STUCCO, & REPLACE WINDOWS

City of San Bernardino

Planning and Building Services

Permit Number

B9801399

(909) 384-5071 • Fax: (909) 384-5080 • http://www•cyberg8t•com

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 715 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: WATERMAN
Parcel No: 0280-192-190000

Status: ISSUED
Applied: 05/28/1998
Issued: 05/26/1998

Owner: MILLER GARY
Address: P O BOX 1553
AGUORA CA 91376

Phone: 818-889-4224

Contractor:
Address:

Phone:
License:
Wrks Cmp: N

Arch/Eng:
Address:

Phone:
License:

BUILDING INFORMATION

Construction Type: TYPE V-Non-rated
Occupancy: R-3
Sprinklers:N
Flood Plain Zone: N
Fire Zone: N
Highwind:N
Planning No: N/A
Zoning:
Planner:
Type of Permit: RESIDENTIAL REHABILITATION
TEMP #8-ROOF RAFTERS,SHEATHING,COMPOSITION ROOF, STUCCO, & REPLACE WINDOWS

PERMIT VALUATION

Occupancy	Type	Factor	Sq. Feet	Valuation
		Subtotal:		.00
		Multiplier 1.00:		.00
		Addl Fixed Amount:		7,377.00
Table Date: 09/01/1987		Total Valuation:		7,377.00

FEE SUMMARY

Plan Check:	.00	Planning Review:	.00
Expeditious Review:	.00	Strong Motion:	.74
Other Plan Check:	.00	Verdemont:	.00
Building Permit:	99.00	Storm Drain:	.00
Elec Permit:	.00	Traffic:	.00
Plumb Permit:	.00	Sewer Connect:	.00
Mech Permit:	.00	Parks & Rec:	.00
C of O:	.00	Cultural Dev:	.00
Other Bldg:	.00	Total Fees:	99.74
Investigation:	.00	Amount Received:	99.80
Building Repairs:	.00	Balance Due:	.00
Hardship/Alternate:	.00		

CONDITIONS/COMMENTS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:

I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: _____

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:

❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:

I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: _____

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:

Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: _____

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Job Address: 715 E NORMAN. 1 APN. 0280-192-19

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418
DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-5078

PERMIT NUMBER B9801399

Date: 5-26-98

Plan Ck.# TEMP B

Job Address: 715 E NORMAN APN: 0280-192-19
Major Cross Sts: WATERMAN Tract/Lot:
Description of Project: CHANGE ROOF
NEW STUCCO PLASTER, Replacement 8 WINDOWS.

No. Rooms: 3 No. Stories: 1 Sq. Ft.: 884
Owner: GARY MILLER Owner/Bldr. Yes No
Mailing Address: P.O. BOX 1553
City/State: AZUSA, CA 91376 Zip: 91376 Tel.: 818) 8894224
Applicant/Contractor:
Address: OWNER
City/State: Zip: Tel.:
Contractor's State Lic. #: Bus. Lic.:
Arch./Engr./Designer: State Lic. No.:
Address:
City/State: Zip: Tel.:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW

Construction Type: Occupancy Type:
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No
High Fire: Yes No Zone

Pre-Permit/
Special Investigation No.:

Comments:

PLANNING REVIEW

Planning Case No.:
Zone: By:
Approval Date:
Comments:

CODE ENFORCEMENT

Case No.
Comments: NA

Workman's Comp. Insurance
Yes No
Issued by

***Before Issuing Permit** - Verify that the following applicable fees have been paid.*

6024 - Sewer Capacity / Cap Fees:
Date:
Recpt. No. NA
School District Fees:
Date:

Receipt No.: 699114
By: CAEM

Estimated Valuation: $ 7377.00
Bldg. Construction:
REROOF 950, STUCCO 134 LF,
REPL 8 WINDOWS
REBUILD ROOF RAFTERS, SHEATHING
Electrical:

Permit Fee: $15
Total Elec. Fees

Plumbing:

Permit Fee: $15
Total Plumb. Fees:

Heating & A/C

Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

4331	Total Elec/Plumb/Htg.	
4731	Pln. Check Dep.	
4731	Plan check Fees Balance	
4330	Building Permit Fees	99.00
4330	Investigation Fees	
4304	Sign Permit Fees	
4304	C. of O. Fee	
2321	Strong Motion Fees	.00

PLANNING DIVISION

4720	C. of O. Fee	
4720	Plan Review Fee	

ENGINEERING DIVISION

4818	Storm Drain Fees	
4822	Sewer Conn. Fees	
4803	Traffic Signal Fees	
4512	Verdemont Fees	

PARK & RECREATION

4732	Park Development Fees	

CULTURAL DEVELOP. FUND

4335	Cultural Development Fees	

Total Fees Due: 99.00

EXPIRATION

This permit shall be void and of no further force or effect if work is not commended within 180 days or if work is suspended or abandoned for a period of 180 days or more after work is commenced. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

Job Address: _____ **Permit No.** _____

CITY OF SAN BERNARDINO

BUILDING DEVELOPMENT PERMIT DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number _____

(This section need not be completed if the permit is valued at one hundred dollars ($100) or less.)

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: 5-26-98

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
☐ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

☐ No Construction Lender

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☒ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

☐ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

☐ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: _____ Date: 5/26/98

Owner ID verified by driver's license. ☐ Yes ☐ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

DIVISION OF INDUSTRIAL SAFETY PERMIT CERTIFICATION:
☐ I hereby certify that no excavation five (5) or more feet in depth into which a person is required to descend, will be made in connection with work authorized by this permit, and that no building structure, scaffolding, falsework, or demolition or dismantling thereof, will be more than thirty-six (36) feet high. (Chap. 3.2, Grp 2, Art 2, Sec. 341, Title 8, California Administrative Code).

☐ As owner-builder, I will not employ anyone to do work which would require a permit from the Division of Industrial Safety, as noted above, unless such person has a permit to do such work from the division.

Signature: _____ Date: _____

Division of Industrial Safety Permit No. _____

HAZARDOUS MATERIALS AND EMISSIONS CERTIFICATION:

1. Will the applicant or present or future building occupant need to file and certify a Business Plan for emergency response to release or threatened release of a hazardous material?
   Yes ☐ No ☐
   (Section 25505 of the California Health and Safety Code requires, with some exceptions, that a Business Plan be filed with the County of San Bernardino by every business which has at any one time during a reported year a quantity of hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

2. Does or will the applicant or present or future building occupant need to file a registration form for acutely hazardous materials?
   Yes ☐ No ☐
   (Section 25533 of the California Health and Safety Code, with some exceptions, requires registration with the County of San Bernardino by each business which at any one time has on hand a quantity of acutely hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

3. Does or will the applicant or present or future building occupant need to prepare an RMPP (Risk Management and Prevention Program for acutely hazardous materials)?
   Yes ☐ No ☐
   (Section 25534 of the California Health and Safety Code provides that the County of San Bernardino may require the preparation, certification and filing with the County of an RMPP by businesses which are required to register acutely hazardous materials with the County).

4. If an RMPP is presently required, has Section 25534 of the California Health and Safety Code been fully complied with?
   Yes ☐ No ☐

5. Does or will the applicant or present or future building occupant require for the work which is the subject of this application a permit for such construction or modification from the South Coast Air Quality Management District or from any other air pollution control district or agency?
   Yes ☐ No ☐
   (Section 65850.2 of the California Government Code requires that the requested information be furnished on applications for non-residential building permits).

6. Will any part of the facility to be constructed under this permit be within 1000 feet from the outer boundaries of a school?
   Yes ☐ No ☐
   (If "yes", the facility must meet the requirement of Sections 25534 and 42303 of the California Health and Safety Code).

7. If a permit from the South Coast Air Quality Management District or other air pollution control district or agency is required for the work which is the subject of this application, have all of the disclosures prescribed by California Health and Safety Code Section 42303 been made?
   Yes ☐ No ☐

8. (If "yes", attach certificate of compliance from the appropriate air pollution control officer).

CERTIFICATE OF COMPLIANCE: I certify that under penalty of perjury the information given above is correct. I agree to comply with all state laws and city ordinances regarding Hazardous Materials and Emissions.

Signature: _____ Date: _____

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: 5-26-98

_____ Date: _____

096

City of San Bernardino

Planning and Building Services

Permit Number

B9801585

(909) 384-5071 • Fax: (909) 384-5080 • http://www•cyberg8t•com

300 North "D" Street, San Bernardino, CA 92418

ELECTRICAL/PLUMBING/MECHANICAL PERMIT

Job Address: 715 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: WATERMAN
Parcel No: 0280-192-190000

Status: ISSUED
Applied: 06/17/1998
Issued: 06/17/1998

Applicant: MILLER GARY
Address: P O BOX 1553
AGUORA CA 91376
Phone: 818-889-4224

Owner: MILLER GARY
Address: P O BOX 1553
AGUORA CA 91376
Phone: 818-889-4224

Contractor:
Address:
Phone:
License:
Wrks Cmp: N

Arch/Eng:
Address:
Phone:
License:

INFORMATION

Zoning: N/A
Planner:
Pre-perm/Spec Inv #:
Code Compl #:

SCOPE OF PERMIT

REWIRE STRUCTURE, UPGRADE 100 AMP PANEL, 1 W/C,
2 SINKS, 1 LAV, 1 TUB, 1 WALL HEATER

FEE SUMMARY

Planning Review:	.00		
Elec Permit:	71.13	Expeditious Plan Ck:	.00
Plumb Permit:	52.50	Sewer Connect:	.00
Mech Permit:	24.00	Hourly Plan Ck:	.00
Elec Plan Ck:	.00	Total Fees:	147.63
Plumb Plan Ck:	.00	Amount Received:	147.63
Mech Plan Ck:	.00	Balance Due:	.00

COMMENTS/SPECIAL CONDITIONS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: _____ Date: _____

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

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Contractor's Signature: _____ Date: _____

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Signature: _____ Date: _____

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant _____ Date: _____

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.
Friday (Alternating) — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.
Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical	7.6.98	TJD
00080	Pool Pre-Gunite			00275	Electrical Service	7.31.98	TJD
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test	~~7.28.98~~ 7.31.98	TJD
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical	~~7.6.98~~	~~TJD~~
00190	Exterior Lath or Siding	7.6.98	TJD	00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown	~~7.30.98~~	TJD	00310	Irrigation/Landscaping		
00240	Drywall	7.6.98	TJD	00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical	7.31.98	TJD
Other				00290	Final Plumbing	7.31.98	TJD
00470	Mobile Home Install			00300	Final Mechanical	7.31.98	TJD
00480	Awnings/Porches			00350	Final Construction	7.31.98	TJD

Comments:

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

6074-3

Ste #: Inspector Area:4
Address..:715 E NORMAN RD PERMIT #...:B9801585
Parcel...:0280-192-190000 Date Issued:06/17/1998
Owner....:MILLER GARY Permit Type:EPM
Applicant:MILLER GARY Worker's Comp:N
818-889-4224 818-889-4224

********** ELECTRICAL **********

Multi-Family Sq Ft: SFD Sq FT: 1075 Commercial Sq Ft:

Service to 600vlt/ 200amp:	1	Power Apparatus	
to 600vlt/1000amp:		to 1 HP/KW/KVA.....	
> 600vlt/1000amp:		to 10 HP/KW/KVA.....	
Temp Power Pole.....		to 50 HP/KW/KVA.....	
Temp Dist System.....		to 100 HP/KW/KVA.....	
Recep/Swtch/Lt Outlet....		> 100 HP/KW/KVA.....	
Lighting Fixtures.....		Busways.....	
Pole/Pltfm Ltg Fixtures..		Carnivals/Circuses	
Theatrical Ltg Fixtures..		Generators & elec driven rides:	
Res Appl to 1HP.....		Walk thru attractions.....	
NonRes Appl to 1Hp.....		Booth Lighting.....	
Misc Apparatus.....		Electrical meter reset.....	
Elec meter reset w/other.:		Each add'l meter on same lot..:	

********** MECHANICAL **********

Furnace to 100kBTU.....		Boilers/Compressors	
over 100kBTU.....		to 3HP/ 100K BTU.....	
Floor Furnace.....		to 15HP/ 500K BTU.....	
Susp/Wall/Flr Htr.....	1	to 30HP/1.00M BTU.....	
Appliance Vent.....		to 50HP/1.75M BTU.....	
Htg/Refr/Cool Unit.....		> 50HP/1.75M BTU.....	
Vent Fan w/Duct.....		Misc Appl/Equip.....	
Vent System.....		Domestic Incinerator.....	
Exhaust Hood.....		Comm/Ind Incinerator.....	
Evaporative Cooler.....		Fuel-gas piping.....	
Air Handlers to 10kCFM...:		Gas-Hazardous.....	
over 10KCFM...:		Gas-Non-Hazardout.....	

********** PLUMBING **********

Fixtures/Traps.....	5	Private Sewage Disposal.....	
Bldg/Trailer Sewer.....		Ind waste Pretreatment.....	
Water Heater/Vent.....	1	Backflow Protection	
Gas Piping Outlets.....		up to 2".....	
Water Piping.....		over 2".....	
Drainage/Vent Piping.....		Gas Meter Reset.....	
Lawn Sprinkler Sys.....		Reset in conjunction	
Rainwater Sys, Drains....		with other work.....	
Atmospheric Breakers.....		Addit'l meter.....	

REWIRE STRUCTURE, UPGRADE 100 AMP PANEL, 1 W/C,
2 SINKS, 1 LAV, 1 TUB, 1 WALL HEATER

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —
(909) 384-5071 - Office • (909) 384-5078 - Inspection Request
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CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing	7.698	JW	00170	Rough Plumbing		
00120	Roof Covering	7.31.98	JW	00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding	7698	JW	00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown Coat	7.20.98	JW	00310	Irrigation/Landscaping		
00240	Drywall	7.6.98	JW	00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction	9.3.98	JW

Comments:

Permittee Responsibility

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- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

RECORDING REQUESTED BY
AMERICAN TITLE COMPANY
AND WHEN RECORDED MAIL TO:
GARY L. MILLER
P.O. BOX 1553
AGUORA, CA 91376-1553

COPY of Document Recorded
on 5-20-98 as No. 98-192443
Has not been compared with original.
SAN BERNARDINO COUNTY RECORDER

Space Above This Line for Recorder's Use Only

A.P.N.: 0280-192-19 Order No.: 4257135-42 Escrow No.: 98-2816

GRANT DEED

THE UNDERSIGNED GRANTOR(s) DECLARE(s) THAT DOCUMENTARY TRANSFER TAX IS: COUNTY ~~$33.00~~ 16.50
[X] computed on full value of property conveyed, or
[ ] computed on full value less value of liens or encumbrances remaining at time of sale,
[X] unincorporated area; [ ] City of SAN BERNARDINO, and

FOR A VALUABLE CONSIDERATION, Receipt of which is hereby acknowledged,
HERMAN GREEN

hereby GRANT(S) to GARY L. MILLER, a Married Man as his Sole and Separate Property

the following described property in the City of SAN BERNARDINO, County of San Bernardino State of California;

The East 50 feet of the North half of Lot 53, Tract 2228, Valley Truck Farms No. 4, in the City of San Bernardino, County of San Bernardino, State of California, as per plat recorded in Book 31 of Maps, page 95, records of said County.

Herman Green
HERMAN GREEN

Document Date: April 17, 1998

STATE OF CALIFORNIA)SS
COUNTY OF Montgomery)
On 4-25-98 before me, Herman Green Vicki M. Nobbe
personally appeared Herman Green
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.
WITNESS my hand and official seal.

Signature Vicki M. Nobbe

OFFICIAL SEAL
This VICKI M. NOBBE
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES: 08/12/01

Mail Tax Statements to: SAME AS ABOVE or Address Noted Below

101

Development Services Department

Permit Number

B0504050

(909) 384-5071 • Fax: (909) 384-5080 • www.san-bernardino.ca.us 300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address:	807 E NORMAN RD	Status:	ISSUED
Suite #:	Tract/Lot#:	Applied:	12/09/2005
Parcel:	0280202070000	Issued:	
Owner:	WILLIAMS THOMAS	Phone:	909-888-8981
Address:	807 E NORMAN RD SAN BERNARDINO, CA92408		
Contractor:		Phone:	
Address:		License:	
Architect:		Phone:	
Address:		License:	
Engineer:		Phone:	
Address:		License:	

Building Information

Construction Type:	Occupancy:	Sprinklers:
Flood Plain Zone:	Fire Zone:	Highwind: N

Description/Valuation

Type of Permit: BLOCK WALL ON SIDE PROPERTY LINE AND SMALL WALL ON REAR (150' X 6')PROPERTY LINE (20' X 6")

Occupancy	Type	Factor	Sq Feet	Valuation
Fences & Block walls	6' High Block Wall	30.00	170	$5,100.00
	Totals...		170	$5,100.00*

Fee Summary

Plan Check:	$0.00	Planning Review:	$0.00
Expeditious:	$0.00	Strong Motion:	$0.51
Fire Plan Check Fees:	$0.00	Verdemont:	$0.00
Building Permit:	$81.00	Storm Drain:	$0.00
Electrical Permit:	$0.00	Traffic:	$0.00
Plumbing Permit:	$0.00	Sewer Connection:	$0.00
Mechanical Permit:	$0.00	Parks / Recreation:	$0.00
Certificate of Occupancy:	$0.00	Cultural Development:	$0.00
Other Building Fees:	$0.00	Hardship/Alternate:	$0.00
Special Investigation:	$0.00	Total Fees:	$147.76
Building Issuance:	$15.00	Amount Received:	$147.76
Building Repairs/Rehab:	$0.00	Balance Due:	$0.00

Comments

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5071

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier _____ (This section need not be completed if the permit

Policy Number _____ is valued at one hundred dollars ($100) or less.)

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: T. Williams Date: 12-9-05

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☒ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: T. Williams Date: 12-9-05

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. N3594753 Expires: 09

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant: T. Williams Date: 12-9-05

_____ Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural			
00010	Rough Grading		
00020	Setbacks		
00030	Foundation/Ftgs.		
00040	Slab Grade		
00080	Pool Pre-Gunite		
00090	Pool Pre-Plaster		
00100	Masonry & Steel (1st lift)		
00110	Masonry & Steel (2nd lift)		
00111	Masonry & Steel (3rd lift)		
00112	Masonry & Steel (4th lift)		
00115	Roof Sheathing		
00120	Roof Covering		
00130	Shear Nailing		
00140	Framing		
00180	Insulation		
00190	Exterior Lath or Siding		
00200	Stucco Scratch		
00210	Stucco Brown		
00240	Drywall		
00150	T-Bar		
00125	Reroof		
00320	Demolition		
00460	Misc.		
Other			
00470	Mobile Home Install		
00480	Awnings/Porches		

CODE #	INSPECTION TYPE	DATE	INTITIALS
Electrical			
00070	Temp Power Pole		
00060	Underground Electrical		
00162	UFER		
00160	Rough Electrical		
00275	Electrical Service		
00165	Misc. Electrical		
Plumbing			
00050	Underground Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test		
00235	Misc. Plumbing		
Mechanical			
00150	Rough Mechanical		
00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical		
00290	Final Plumbing		
00300	Final Mechanical		
00350	Final Construction		

INSPECTION RECORD

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00040	Slab Grade		
00080	Pool Pre-Gunite		
00090	Pool Pre-Plaster		
00100	Masonry & Steel (1st lift)		
00110	Masonry & Steel (2nd lift)		
00111	Masonry & Steel (3rd lift)		
00112	Masonry & Steel (4th lift)		
00115	Roof Sheathing		
00120	Roof Covering		
00130	Shear Nailing		
00140	Framing		
00180	Insulation		
00190	Exterior Lath or Siding		
00200	Stucco Scratch		
00210	Stucco Brown		
00240	Drywall		
00150	T-Bar		
00125	Reroof		
00320	Demolition		
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Other			
00470	Mobile Home Install		
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CODE #	INSPECTION TYPE	DATE	INITIALS
Electrical			
00070	Temp Power Pole		
00060	Underground Electrical		
00162	UFER		
00160	Rough Electrical		
00275	Electrical Service		
00165	Misc. Electrical		
Plumbing			
00049	Underground EC Pre-Treatment		
00050	Undergound Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test		
00235	Misc. Plumbing		
Mechanical			
00150	Rough Mechanical		
00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical		
00289	Final EC Pre-Treatment		
00290	Final Plumbing		
00300	Final Mechanical		
00350	Final Construction	12/27/05	CRAIG

Comments

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
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- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

Suite #: Inspector Area: 3 ? Final

Permit #: B0504050
Permit Type: BLDG

Address: 807 E NORMAN RD SB
Parcel #: 0280202070000
Owner: WILLIAMS THOMAS
Contractor:
Workers Comp;

Date Applied: 12/09/2005
Date Issued: 12/09/2005
Phone #: 909-888-8981
Phone #:

ELECTRICAL

Multi-Family Sq Ft: 0	Dwellings Sq Ft: 0	Commercial Sq Ft:	0
Service to 600 volts/ 200 amps:	0	**Power Apparatus.....**	
to 600 volts/1000 amps:	0	to 1 HP/KW/KVA:	0
> 600 volts/1000 amps:	0	to 10 HP/KW/KVA:	0
Temp Power Pole:	0	to 50 HP/KW/KVA:	0
Temp Distribution System:	0	to 100 HP/KW/KVA:	0
Recep/Switch/Outlets:	0	> 100 HP/KW/KVA:	0
Lighting Fixtures:	0	Busways:	0
Pole/Platform Lighting Fixtures:	0	Miscellaneous Apparatus:	0
Theatrical Lighting Fixtures:	0	Electrical Meter Reset:	0
Residential Appliance to 1 HP:	0	Each Additional Meter same lot:	0
NonResidential Appliance to 1 HP:	0	Electrical Meter Reset w/other work:	

MECHANICAL

Furnace to 100K BTU:	0	**Boilers/Compressors.....**	
Over 100K BTU:	0	to 3HP/ 100K BTU:	0
Floor Furnace:	0	to 15HP/ 500K BTU:	0
Suspended/Wall/Floor Heater:	0	to 30HP/1.00M BTU:	0
Appliance Vent:	0	to 50 HP/1.75M BTU:	0
Heating/Refr/Cooling Unit:	0	> 50HP/1.75M BTU:	0
Vent Fan/w Duct:	0	Miscellaneous Appliance/Equipment:	0
Vent System:	0	Domestic Incinerator:	0
Exhaust Hood:	0	Commercial/Industrial Incinerator:	0
Evaporative Cooler:	0		
Air Handlers to 10K CFM:	0		
over 10K CFM:	0		

PLUMBING

Fixtures/Traps:	0	Private Sewage Disposal System:	0
Building/Trailer Sewer:	0	Industrial Waste Pretreatment:	0
Water Heater/Vent:	0	**Backflow Protection.....**	
Gas Piping Outlets:	0	up to 2":	0
Water Piping:	0	over 2":	0
Drainage/Vent Piping:	0	Gas Meter Reset:	0
Lawn Sprinkler System:	0	Reset in Conjuncton w/other work:	0
Rainwater System/Drains:	0	Additional Meter Resets:	0
Atmospheric Breakers:	0		

DESCRIPTION

BLOCK WALL ON SIDE PROPERTY LINE AND SMALL WALL ON REAR
(150' X 6')PROPERTY LINE (20' X 6")
COMMENTS:

REPAIRS/REHAB

Number of Windows:	0		
Floor/Roof Sheeting Number of Sheets:	0	OR Square Footage:	0
Exterior Stucco in sq yds:	0	Value of Structural Repairs:	$0.00
Exterior Siding in sq yds:	0	Drywall Repair Number of Sheets:	0

????

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00120	Roof Covering		
00130	Shear Nailing		
00140	Framing		
00180	Insulation		
00190	Exterior Lath or Siding		
00200	Stucco Scratch		
00210	Stucco Brown		
00240	Drywall	1-28-98	JM
00150	T-Bar		
00125	Reroof		
00320	Demolition		
00460	Misc.		
Other			
00470	Mobile Home Install		
00480	Awnings/Porches		

CODE #	INSPECTION TYPE	DATE	INTITIALS
Electrical			
00070	Temp Power Pole	11-24-97	RG
00060	Underground Electrical		
00162	UFER		
00160	Rough Electrical	12-18-97	JM
00275	Electrical Service	12	JM
00165	Misc. Electrical		
Plumbing			
00050	Underground Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test	1-28-98	JM
00235	Misc. Plumbing		
Mechanical			
00150	Rough Mechanical		
00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical	5-4-98	JD
00290	Final Plumbing	5-4-98	JD
00300	Final Mechanical		
00350	Final Construction	5-4-98	JD

Comments:

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807 E. Norman Road 0280-202-07-0000 B0901675

DEVELOPMENT SERVICES DEPARTMENT

300 North "D" Street • San Bernardino • CA 92418-0001
Building & Safety Division 909.384-5071 • Fax: 909.384.5080
Planning Division 909.384-5057 • Fax: 909.384.5080
Public Works/Engineering 909.384-5111 • Fax: 909.384.5155
www.sbcity.org

NOTICE TO PROPERTY OWNER

Dear Property Owner:

An application for a building permit has been submitted in your name listing yourself as the builder of the property improvements specified at _____.

We are providing you with this Owner-Builder Acknowledgment and Information Verification Form to make you aware of your responsibilities and possible risk you may incur by having this permit issued in your name as the Owner-Builder. **We will not issue a building permit until you have read, initialed your understanding of each provision, signed, and returned this form to us at our official address indicated above.** An agent of the owner cannot execute this notice unless you, the property owner, obtain the prior approval of the permitting authority.

OWNER-BUILDER ACKNOWLEDGMENT AND VERIFICATION OF INFORMATION

DIRECTIONS: Read and initial each statement below to signify you understand or verify this information.

TW 1. I understand a frequent practice of unlicensed persons is to have the property owner obtain an "Owner-Builder" building permit that erroneously implies that the property owner is providing his or her own labor and material personally. I, as an Owner-Builder, may be held liable and subject to serious financial risk for any injuries sustained by an unlicensed person and his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an Owner-Builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

TW 2. I understand building permits are not required to be signed by property owners unless they are *responsible* for the construction and are not hiring a licensed Contractor to assume this responsibility.

_____ 3. I understand as an "Owner-Builder" I am the responsible party of record on the permit. I understand that I may protect myself from potential financial risk by hiring a licensed Contractor and having the permit filed in his or her name instead of my own.

TW 4. I understand that Contractors are required by law to be licensed and bonded in California and to list their license numbers on permits and contracts.

TW 5. I understand if I employ or otherwise engage any persons, other than California licensed Contractors, and the total value of my construction is at least five hundred dollars ($500), including labor and materials, I may be considered an "employer" under state and federal law.

TW 6. I understand if I am considered an "employer" under state and federal law, I must register with the state and federal government, withhold payroll taxes, provide workers' compensation disability insurance, and contribute to unemployment compensation for each "employee." I also understand my failure to abide by these laws may subject me to serious financial risk.

807 E. Norman Road 0280-202-07-0000 B0901675

TW 7. I understand under California Contractors' State License Law, an Owner-Builder who builds single-family residential structures cannot legally build them with the intent to offer them for sale, unless *all* work is performed by licensed subcontractors and the number of structures does not exceed four within any calendar year, or all of the work is performed under contract with a licensed general building Contractor.

TW 8. I understand as an Owner-Builder if I sell the property for which this permit is issued, I may be held liable for any financial or personal injuries sustained by any subsequent owner(s) that result from any latent construction defects in the workmanship or materials.

TW 9. I understand I may obtain more information regarding my obligations as an "employer" from the Internal Revenue Service, the United States Small Business Administration, the California Department of Benefit Payments, and the California Division of Industrial Accidents. I also understand I may contact the California Contractors' State License Board (CSLB) at 1-800-321-CSLB (2752) or www.cslb.ca.gov for more information about licensed contractors.

TW 10. I am aware of and consent to an Owner-Builder building permit applied for in my name, and understand that I am the party legally and financially responsible for proposed construction activity at the following address:

_____

TW 11. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern Owner-Builders as well as employers.

TW 12. I agree to notify the issuer of this form immediately of any additions, deletions, or changes to any of the information I have provided on this form.

Licensed contractors are regulated by laws designed to protect the public. If you contract with someone who does not have a license, the Contractors' State License Board may be unable to assist you with any financial loss you may sustain as a result of a complaint. Your only remedy against unlicensed Contractors may be in civil court. It is also important for you to understand that if an unlicensed Contractor or employee of that individual or firm is injured while working on your property, you may be held liable for damages. If you obtain a permit as Owner-Builder and wish to hire Contractors, you will be responsible for verifying whether or not those Contractors are properly licensed and the status of their workers' compensation insurance coverage.

Before a building permit can be issued, this form must be completed and signed by the property owner and returned to the Development Services Department. ***Note: A copy of the property owner's driver's license, form notarization, or other verification acceptable to the agency is required to be presented when the permit is issued to verify the property owner's signature.***

Signature of property owner T. Williams Date: 10-5-09

807 E. Norman Road 0280-202-07-0000

DECLARATIONS

Permit No. B0901675

1. CALIFORNIA LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class _____ License No. _____

Contractor Signature _____ Date _____

2. OWNER-BUILDER'S DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason(s) indicated below by the checkmark(s) I have placed next to the applicable item(s) (Section 7031.5, Business and Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

( ) I, as owner of the property, or my employees with wages as their sole compensation, will do ( ) all of or ( ) portions of the work, and the structure is not intended or offered for sale (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale.).

( ) I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractors' State License Law.).

(X) I am exempt from licensure under the Contractors' State License Law for the following reason: _____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following Web site: http://www.leginfo.ca.gov/calaw.html.

X Property Owner or Authorized Agent (Print Name) T. Willis

Signature _____ Date 10-5-09

3. WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

( ) I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. Policy No. _____

( ) I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier _____ Policy No _____ Expiration Date _____

Name of Agent _____ Phone No. _____

(X) I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

X Signature of Applicant: T. Willis Date: 10-5-09

4. DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).
Lender's Name _____ Lender's Address: _____

5. CAL-OSHA AND HAZARDOUS MATERIAL DECLARATION

Will there be any excavation five (5) or more feet in depth into which a person will be required to descend? ( ) Yes ( ) No
Will the building or tenant space be used to store or display any hazardous materials? ( ) Yes ( ) No

6. Declaration of Compliance and Authorization for Entry: By my signature below, I certify to each of the following:
I am the property owner or I have been authorized to act on the property owner's behalf.
I have read this construction permit application and the information I have provided is true and correct.
I agree to comply with all applicable city and county ordinances and state laws relating to building construction.
I authorize representatives of the city of San Bernardino to enter the above-identified property for inspection purposes.

X Signature of Licensed Contractor, Property Owner* or Authorized Agent** T. Willis Date 10-5-09

* Requires completed "Notice to Property Owner" Form ** Requires the owner to complete "Authorization of Agent" Form

B1100928

DEVELOPMENT SERVICES DEPARTMENT

300 North "D" Street • San Bernardino • CA 92418-0001
Building & Safety Division 909.384-5071 • Fax: 909.384.5080
Planning Division 909.384-5057 • Fax: 909.384.5080
Public Works/Engineering 909.384-5111 • Fax: 909.384.5155

NOTICE TO PROPERTY OWNER

Dear Property Owner:
An application for a building permit has been submitted in your name listing yourself as the builder of the property improvements specified at 807 E Tomahawk Rd.
We are providing you with this Owner-Builder Acknowledgment and Information Verification Form to make you aware of your responsibilities and possible risk you may incur by having this permit issued in your name as the Owner-Builder. **We will not issue a building permit until you have read, initialed your understanding of each provision, signed, and returned this form to us at our official address indicated above.** An agent of the owner cannot execute this notice unless you, the property owner, obtain the prior approval of the permitting authority.

OWNER-BUILDER ACKNOWLEDGMENT AND VERIFICATION OF INFORMATION

DIRECTIONS: Read and initial each statement below to signify you understand or verify this information.

T.W. I understand a frequent practice of unlicensed persons is to have the property owner obtain an "Owner-Builder" building permit that erroneously implies that the property owner is providing his or her own labor and material personally. I, as an Owner-Builder, may be held liable and subject to serious financial risk for any injuries sustained by an unlicensed person and his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an Owner-Builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

T.W. I understand building permits are not required to be signed by property owners unless they are *responsible* for the construction and are not hiring a licensed Contractor to assume this responsibility.

T.W. 3. I understand as an "Owner-Builder" I am the responsible party of record on the permit. I understand that I may protect myself from potential financial risk by hiring a licensed Contractor and having the permit filed in his or her name instead of my own.

T.W. 4. I understand that Contractors are required by law to be licensed and bonded in California and to list their license numbers on permits and contracts.

T.W. 5. I understand if I employ or otherwise engage any persons, other than California licensed Contractors, and the total value of my construction is at least five hundred dollars ($500), including labor and materials, I may be considered an "employer" under state and federal law.

T.W. 6. I understand if I am considered an "employer" under state and federal law, I must register with the state and federal government, withhold payroll taxes, provide workers' compensation disability insurance, and contribute to unemployment compensation for each "employee." I also understand my failure to abide by these laws may subject me to serious financial risk.

____7. I understand under California Contractors' State License Law, an Owner-Builder who builds single-family residential structures cannot legally build them with the intent to offer them for sale, unless *all* work is performed by licensed subcontractors and the number of structures does not exceed four within any calendar year, or all of the work is performed under contract with a licensed general building Contractor.

T.W 8. I understand as an Owner-Builder if I sell the property for which this permit is issued, I may be held liable for any financial or personal injuries sustained by any subsequent owner(s) that result from any latent construction defects in the workmanship or materials.

T.W 9. I understand I may obtain more information regarding my obligations as an "employer" from the Internal Revenue Service, the United States Small Business Administration, the California Department of Benefit Payments, and the California Division of Industrial Accidents. I also understand I may contact the California Contractors' State License Board (CSLB) at 1-800-321-CSLB (2752) or www.cslb.ca.gov for more information about licensed contractors.

T.W 10. I am aware of and consent to an Owner-Builder building permit applied for in my name, and understand that I am the party legally and financially responsible for proposed construction activity at the following address:

T.W _____

T.W 11. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern Owner-Builders as well as employers.

T.W 12. I agree to notify the issuer of this form immediately of any additions, deletions, or changes to any of the information I have provided on this form.

Licensed contractors are regulated by laws designed to protect the public. If you contract with someone who does not have a license, the Contractors' State License Board may be unable to assist you with any financial loss you may sustain as a result of a complaint. Your only remedy against unlicensed Contractors may be in civil court. It is also important for you to understand that if an unlicensed Contractor or employee of that individual or firm is injured while working on your property, you may be held liable for damages. If you obtain a permit as Owner-Builder and wish to hire Contractors, you will be responsible for verifying whether or not those Contractors are properly licensed and the status of their workers' compensation insurance coverage.

Before a building permit can be issued, this form must be completed and signed by the property owner and returned to the Development Services Department. ***Note: A copy of the property owner's driver's license, form notarization, or other verification acceptable to the agency is required to be presented when the permit is issued to verify the property owner's signature.***

Signature of property owner T.W Allen Date: 4-13-11

DECLARATIONS

Permit No. B110092

Address 807 E Norman Rd. **Parcel No.** 0280-202-07-0000

1. CALIFORNIA LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class _____ License No._____

Contractor Signature _____ Date _____

2. OWNER-BUILDER'S DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason(s) indicated below by the checkmark(s) I have placed next to the applicable item(s) (Section 7031.5, Business and Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

(X) **I, as owner of the property, or my employees with wages as their sole compensation, will do (_) all of *or* (_) portions of the work,** and the structure is not intended or offered for sale (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale.).

(_) **I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project** (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractors' State License Law.).

(_) **I am exempt from licensure under the Contractors' State License Law for the following reason:**_____

_____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following Web site: http://www.leginfo.ca.gov/calaw.html.

Property Owner or Authorized Agent (Print Name) Thomas W. Williams

Signature T. Williams Date 4-13-11

3. WORKERS' COMPENSATION DECLARATION

4.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

(_) **I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations** as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. Policy No. _____

(_) **I have and will maintain workers' compensation insurance,** as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier_____ Policy No_____ Expiration Date_____

Name of Agent _____ Phone No. _____

(X) **I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California,** and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
Signature of Applicant: T. Williams Date: 4-13-11

4. DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).
Lender's Name Lender's Address:

5. CONSTRUCTION AND DEMOLITION (C&D) WASTE RECYCLING PROGRAM

In order to comply with the City of San Bernardino's Waste Recycling and Disposal Program, I will be;

☐ SELF HAULING ☐ USING CITY APPROVED BIN PROVIDERS ☒ NOT APPLICABLE

6. CAL-OSHA AND HAZARDOUS MATERIAL DECLARATION

Will there be any excavation five (5) or more feet in depth into which a person will be required to descend? (_) Yes (X) No
Will the building or tenant space be used to store or display any hazardous materials? (_) Yes (X) No

7. Declaration of Compliance and Authorization for Entry: By my signature below, I certify to each of the following:
I am the property owner or I have been authorized to act on the property owner's behalf.
I have read this construction permit application and the information I have provided is true and correct.
I agree to comply with all applicable city and county ordinances and state laws relating to building construction.
I authorize representatives of the city of San Bernardino to enter the above-identified property for inspection purposes.

Signature of Licensed Contractor, Property Owner* or Authorized Agent** T. Williams Date 4-13-11

*** Requires completed "Notice to Property Owner" Form** **** Requires the owner to complete "Authorization of Agent"**

Ste #: INSPECTOR AREA: 4

Address..:807 E NORMAN RD
Parcel...:0280-202-070000
Owner....:GARDINER MARTHA
Applicant:GARDINER WINE MARTHA
714-544-5073 714-544-5073

PERMIT #...:B9702429
Date Issued:11/07/1997
Permit Type:BLDG
Worker's Comp:Y

**********ELECTRICAL**********

Multi-fam Sq Ft:		SFD Sq Ft:	Commercial Sq Ft:
Service to 600vlt/ 200amp:	1	Power Apparatus	
to 600vlt/1000amp:		to 1 HP/KW/KVA.....	:
> 600vlt/1000amp:		to 10 HP/KW/KVA.....	:
Temp Power Pole.....:	1	to 50 HP/KW/KVA.....	:
Temp Dist System.....:		to 100 HP/KW/KVA.....	:
Recep/Swtch/Lt Outlet....:	4	> 100 HP/KW/KVA.....	:
Lighting Fixtures.....:		Busways.....	:
Pole/Pltfm Ltg Fixtures..:		Carnivals/Circuses	
Theatrical Ltg Fixtures..:		Generators & elec driven rides:	
Res Appl to 1HP.....:		Walk thru attractions.....:	
NonRes Appl to 1Hp.....:		Booth Lighting.....:	
Misc Apparatus.....:		Electrical meter reset.....:	
Each add'l meter same lot:		Elec meter reset w/other work.:	

**********MECHANICAL**********

Furnace to 100kBTU.....:		Boilers/Compressors	
over 100kBTU.....:		to 3HP/ 100K BTU.....:	
Floor Furnace.....:		to 15HP/ 500K BTU.....:	
Susp/Wall/Flr Htr.....:	1	to 30HP/1.00M BTU.....:	
Appliance Vent.....:		to 50HP/1.75M BTU.....:	
Htg/Refr/Cool Unit.....:		> 50HP/1.75M BTU.....:	
Vent Fan w/Duct.....:		Misc Appl/Equip.....:	
Vent System.....:		Domestic Incinerator.....:	
Exhaust Hood.....:		Comm/Ind Incinerator.....:	
Evaporative Cooler.....:		Fuel-gas piping.....:	
Air Handlers to 10kCFM...:		Gas-Hazardous.....:	
over 10KCFM...:		Gas-Non-Hazardout.....:	

**********PLUMBING**********

Fixtures/Traps.....:	3	Private Sewage Disposal.....:	
Bldg/Trailer Sewer.....:		Ind waste Pretreatment.....:	
Water Heater/Vent.....:	1	Backflow Protection	
Gas Piping Outlets.....:	1	up to 2".....:	
Water Piping.....:	1	over 2".....:	
Drainage/Vent Piping.....:		Gas Meter Reset.....:	
Lawn Sprinkler Sys.....:		Reset in conjunction	
Rainwater Sys, Drains....:		with other work.....:	1
Atmospheric Breakers.....:		Addit'l meter.....:	

**********REPAIRS/REHAB**********

Number of Windows: 5

Floor/Roof Sheathing:	No. Sheets:	OR Square Footage....:	
Exterior Stucco:	Sq. Yards:	Value of Struct Repair:	
Exterior Siding:	Sq. Yards:	Drywall Repair: # Shts:	20

REPLACE 2 SK,TOILET, WTR LINES,REPLACE DRYWALL
REPLACE 5 WINDOWS.

City of San Bernardino

Planning and Building Services

Permit Number

B9702429

(909) 384-5071 • Fax: (909) 384-5080 • http://www•cyberg8t•com

300 North "D" Street, San Bernardino, CA 92418

BUILDING PERMIT

Job Address: 807 E NORMAN RD
Suite No: Tract/Lot Nos:
Vicinity: E.OF WATERMAN
Parcel No: 0280-202-070000

Status: ISSUED
Applied: 11/07/1997
Issued: 11/07/1997

Owner: GARDINER MARTHA
Address: 13271 WOODLAND DR
TUSTIN CA 92780

Phone: 714-544-5073

Contractor:
Address:

Phone:
License:
Wrks Cmp: Y

Arch/Eng:
Address:

Phone:
License:

BUILDING INFORMATION

Construction Type: TYPE V-Non-rated
Occupancy: R-3
Sprinklers:
Flood Plain Zone:
Fire Zone: N/A
Highwind:N
Planning No:
Zoning:
Planner:
Type of Permit: ADD/ALTER SINGLE FAMILY RES
REPLACE 2 SK,TOILET, WTR LINES,REPLACE DRYWALL
REPLACE 5 WINDOWS.

PERMIT VALUATION

Occupancy	Type	Factor	Sq. Feet	Valuation
		Subtotal:		.00
		Multiplier 1.00:		.00
		Addl Fixed Amount:		5,000.00
Table Date: 09/01/1987		Total Valuation:		5,000.00

FEE SUMMARY

Plan Check:	.00	Planning Review:	.00
Expeditious Review:	.00	Strong Motion:	.57
Other Plan Check:	.00	Verdemont:	.00
Building Permit:	72.00	Storm Drain:	.00
Elec Permit:	51.50	Traffic:	.00
Plumb Permit:	57.50	Sewer Connect:	.00
Mech Permit:	24.00	Parks & Rec:	.00
C of O:	.00	Cultural Dev:	.00
Other Bldg:	.00	Total Fees:	224.57
Investigation:	.00	Amount Received:	224.57
Building Repairs:	19.00	Balance Due:	.00
Hardship/Alternate:	.00		

CONDITIONS/COMMENTS

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation Insurance carrier and policy number are:

Carrier State Fund (This section need not be completed if the permit

Policy Number 1490965-97 is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: Martha G. Wine Date: Nov. 7 97

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # _____ Class #: _____

Contractor's Signature: _____ Date: _____

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

Signature: _____ Date: _____

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. _____ Business and Professions Code for this reason: _____

Signature: Martha G. Wine Date: Nov. 7 97

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. M0502598 Expires: 6-6-98

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant: Martha G. Wine Date: Nov. 7 '97

Date: _____

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Figs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Recording Requested By:

When Recorded Mail To:

The Norris Group
18710 Van Buren Boulevard
Riverside, CA 92508

Loan No. 548

(This space for recorders use only)

DEED OF TRUST WITH ABSOLUTE ASSIGNMENT OF RENTS RIDER

(This Deed of Trust contains an Acceleration Clause)

This DEED OF TRUST made July 14, 1997, between:
MARTHA GARDINER WINE, A SINGLE WOMAN

herein called TRUSTOR, whose address is: 13271 WOODLAND DRIVE
TUSTIN, 92 92780-

and Bruce Norris Financial Group Incorporated, A California Corp herein called TRUSTEE, and
JERRY V. BOUGHNER, AN UNMARRIED MAN.

herein called BENEFICIARY;

WITNESSETH: The Trustor irrevocably GRANTS, TRANSFERS AND ASSIGNS TO TRUSTEE in trust, with POWER OF SALE, that property in the State of California, in the City of SAN BERNARDINO, County of SAN BERNARDINO, described as:

THE WEST HALF OF LOT 46 OF TRACT NO. 2228, VALLEY TRUCK FARMS NO. 4, IN THE CITY OF SAN BERNARDINO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 31, PAGE 95 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APN# 0280-202-07

Together with all rights and interest of Trustor, to all appurtenances, easements, community interests and licenses, and to oil, mineral, gas, water, water certificates, and hydrocarbon rights, leases, and overriding royalties therein, and all of these, whether appurtenant, riparian or appropriative.

REPAIR 807 NORMAN RD.

1. REPLACE TOILET
2. REPLACE BATH ROOM SINK
3. REPLACE KITCHEN SINK
4. REPLACE KITCHEN CABINETS
5. REPLACE CARPETING B.R. 10x12 - B.R. 10x14 - L.R. 14x18 CARPETING
   KITCHEN - 10x13 - 7x10 - LINOLEUM
6. REPLACE 4 - INTERIOR DOORS
7. REPLACE WATER PIPES - INTERIOR
8. REPLACE SOIL PIPES AS NECESSARY
9. REPLACE DRY WALL 70 LIN FT. AS NECESSARY 6 OR 8'
10. REPLACE ELECTRICAL AS NECESSARY
    100 AMP MAIN 4 RECEPTICLES
11. REPLACE 5 - WINDOWS

STATE COMPENSATION INSURANCE FUND

P.O. BOX 420807, SAN FRANCISCO, CA 94142-0807

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

NOVEMBER 7, 1997

POLICY NUMBER: 1490965 - 97
CERTIFICATE EXPIRES: 11-1-98

CITY OF SAN BERNARDINO
BUILDING & SAFETY DEPARTMENT
300 NORTH "D" STREET
SAN BERNARDINO, CA 92418

JOB: ALL OPERATIONS

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ten days' advance written notice to the employer.

We will also give you TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

Thom Hansen
AUTHORIZED REPRESENTATIVE

K C Bollier
PRESIDENT

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: $1,000,000 PER OCCURRENCE.

EMPLOYER

WINE, MARTHA G.
13271 WOODLAND DRIVE
TUSTIN CALIFORNIA 92780

THIS DOCUMENT HAS A BLUE PATTERNED BACKGROUND

SCIF 10262 (REV. 3-95)

H.D File

CITY OF SAN BERNARDINO DEPARTMENT OF PLANNING AND BUILDING SERVICES

BUILDING COMPLAINT AND INVESTIGATION REPORT

ADDRESS 807 E. NORMAN RD. APT/SPACE NO. _____

RECEIVED BY CP per Vern's case DATE 7-16-97

HOW LONG HAS VIOLATION EXISTED? _____

NATURE OF COMPLAINT WINDOWS W/O PERMITS + GETTING POWER FROM NEIGHBORS

REPORT & ACTIONS Rehab Permit Issued 11/7/97

4/23/98
DATE

SW
BUILDING INSPECTOR

Use S-2R Construction & Mobile Home Distribution: White - High Density Buff - Inspect File PLAN-13.05 (2-96)

DEVELOPMENT SERVICES DEPARTMENT
PLANNING DIVISION

300 North "D" Street • San Bernardino • CA 92418-0001
Building & Safety Division **909.384-5071** • Fax: 909.384.5080
Planning Division **909.384-5057** • Fax: 909.384.5080
Public Works/Engineering **909.384-5111**• Fax: 909.384.5155
www.sbcity.org

ZONING VERIFICATION REVIEW

Activity No.: ZV11-2298

Business Name: AMERICAN TOW GROUP
Business Location: 807 E NORMAN RD SB , Suite:
Parcel No.: 0280-202-07-0000

Status: ISSUED
Date: 11/21/2011

Type of Business: Auto Impound Yard
Description: TOWING COMPANY (PERMITTED PER CUP 10-01)
Business Located In: Y Single-tenant space N Multi-tenant space
Vacancy Over 1 yr.: N Length of Vacancy:

Change of Ownership w/No Change of Use: N
Length of Current Use:

Applicant: WILLIAMS, THOMAS
Authorized Agent: N

Property Owner? Y or

Previous Legal Use: IMPOUND YARD
Land Use District: IL
Related Case No.: CUP 10-01

Fees Paid: $39.74
Issued By: DF
Expiration Date: 01/20/2012

****

Cond: ZV1
PERMITTED - A Business Registration Certificate may be issued.

****

DEPARTMENT OF BUILDING & SAFETY
CITY OF SAN BERNARDINO

Checked By ia

BUILDING		NO	ELECTRICAL		NO	PLUMBING	
			SQ. FT.			WATER CLOSET	
			SQ. FT.			LAVATORY	
			MAIN SWITCH			BATH TUB	
			OUTLETS			SHOWER	
			FIXTURES			KITCHEN SINK	
			SWITCHES			GARBAGE DISPOSAL	
		1	meter reset			DISHWASHER	
						LAUNDRY TRAY	
						AUTOMATIC WASHER	
						WATER HEATER	
						FLOOR SINK	
						GAS SERVICE	
*ESTIMATED VALUATION						SEWER	
TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO						SEWER ALTER	
OPERATE AND USE PROPOSED BUILDING.						GAS DRYER	
HEATING — A.C. — REFRIGERATION						WATER SOFTENER	
NO.	TYPE OF EQUIPMENT FEE					LAWN SPRINKLER	
	FORCED AIR UNITS						
	WALL HEATERS						
	REFRIGERATION H.P. EA.						
			PERMIT			PERMIT	
			TOTAL FEE	5.00		TOTAL FEE	
	PERMIT		CONTRACTOR			CONTRACTOR	
	TOTAL FEE		X			X	

CONTRACTOR

X

JOB ADDRESS: 823 E. Norman Rd

OWNER: Harrall

USE OF BUILDING: elec mtr reset/dwlg

DATE: 3/24/80

LEGAL DESCRIPTION:

PERMIT NO. 41971

REMARKS:

PLANS BY:

USE ZONE | FIRE ZONE

FINAL DATE | INSP.
3-24-80 Frank O'Brien

PERMIT	ACCOUNT NUMBER	AMOUNT
PLAN CHECK	01-009-411	
BUILDING	01-009-222	
ELECTRICAL	01-009-224	5.00
HEAT AND A.C.	01-009-223	
PLUMBING	01-009-223	
STRONG MOTION	72-816-000	
STORM DRAIN	48-009-495	
TOTAL		5.00

The homeowners certificate workmen's compensation insurance statement below is only applicable where the homeowner does the work himself, or the permit is for $100.00 or less.

HOMEOWNERS CERTIFICATE-WORKMENS COMPENSATION INSURANCE STATEMENT

I hereby agree that all work in connection with this permit will be done in accordance with the laws of the City of San Bernardino and the State of California. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workmen's compensation laws of California.

Heating, Electrical and Plumbing Permits will not be valid until names of sub-contractors have been furnished to Department of Building and Safety.

This permit shall become void if work is not commenced within 120 days. Cessation of work for 120 days shall also cause permit to become void.

Signature By: _____

FOR DWELLINGS ONLY

I declare under penalty of perjury that the following statements are true and correct:

I, the undersigned, hereby declare that I am the legal owner of the single family dwelling located at the address listed, that said dwelling is my bona fide residence and, that I, myself, will personally install all sanitary, gas or electrical work listed on this permit.

SIGNED _____ (OWNER)

OWNER	CONTRACTOR
Same	General Lee
MAILING ADDRESS	MAILING ADDRESS 25340 Fisher
	SB Ca
PHONE	PHONE 8627300
SIGNATURE BY: X	STATE LIC. NO. 351751/6[illegible]
	SIGNATURE BY: X James Lee

FILE

PURCHASE ORDER
VENDOR'S COPY

CITY OF SAN BERNARDINO

OFFICE OF THE PURCHASING AGENT
250 W. CLUSTER STREET
SAN BERNARDINO, CALIFORNIA 92418

PURCHASE ORDER No. 903240

PAGE 1

07/26/88
DATE OF ORDER

TO WARREN DUNCAN
VENDOR

1700 PENNSYLVANIA AVE
ORDER ADDRESS

COLTON, CA 92324
CITY STATE ZIP

714 825-1546 -

VENDOR'S PAYMENT ADDRESS

CITY STATE ZIP

VENDOR NO.	REQ. NO.	PROMPT PAYMENT DISCOUNT
028935	181083	NONE

DELIVER TO: BUILDING & SAFETY
300 NO. "D", ROOM #331
SAN BERNARDINO, CA 92418

ORDERING DEPARTMENT
BUILDING & SAFETY

EQUIP. NO.	HAZ. MATL.	W.O. NO.
	X88010	-

DESCRIPTION OF ARTICLES OR SERVICES REQUIRED	QUANTITY	UNIT	UNIT PRICE	EXTENSION
CONFIRMATION FY 87/88 ----------				
1 COMPLETE DEMOLITION OF 823 NORMAN ROAD SAN BERNARDINO, CA AP#280 202 11 AS PER QUOTE X-88-10 DATED 7-10-88 --- PRICE/TERMS PER WARREN DUNCAN	1	LT	3340.00	$3,340.00
SUB TOTAL ******				$3,340.00
TOTAL TAX ******				$0.00
TOTAL FREIGHT **				$0.00
TOTAL AMOUNT ***				$3,340.00

HAZARDOUS MATERIALS

VENDOR MUST FURNISH TO CITY TWO COPIES OF MATERIAL SAFETY DATA SHEETS WHERE REQUIRED.

(1) COPY - WITH RECEIVING OF MATERIAL
(1) COPY - TO EMERGENCY SERVICES DIV.
300 N. "D" ST. (BASEMENT)
SAN BERNARDINO, CA 92418

****

GENERAL LEDGER ACCOUNT NUMBER

001-000-4-1733-00000-0000 $3,340.00

CC 345
COORDINATE DELIVERY WITH: DON HESTERLEY 384-5267
DELIVERY REQUIRED BY 07/26/88

ACCOUNTING CODE

ENCUMBRANCE AMOUNT

BUYER TO CONTACT REGARDING THIS PURCHASE: Evelyn Wilson
EVELYN WILSON

THIS PURCHASE IS AUTHORIZED AND APPROVED
DEAN R. MEECH
PURCHASING AGENT

IMPORTANT: INVOICES MUST BE FORWARDED TO THE **FINANCE DEPARTMENT, 300 N. "D" Street, San Bernardino, CA 92418** immediately upon delivery of articles or performance of services ordered hereon unless otherwise indicated. Invoices must show on their face the NUMBER OF THIS ORDER, which appears in the upper right hand corner hereof, the name of the department to which the goods were furnished; that the same covers complete or partial delivery or performance as the case may be, and amount of prompt payment discount.

FREIGHT CHARGES, IF ALLOWED MUST BE PREPAID AND ITEMIZED ON INVOICE. **ALL PURCHASES F.O.B. DELIVERY ADDRESS UNLESS OTHERWISE SPECIFIED ON PURCHASE ORDER.** ALL ARTICLES OR SERVICES FURNISHED PURSUANT TO THIS PURCHASE ORDER SHALL COMPLY WITH ALL CAL-OSHA STANDARDS AND REGULATIONS AND ALL APPLICABLE GOVERNMENTAL LAWS AND ORDERS.

ALL PURCHASES ARE SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS SHEET

Recording Requested By

City of San Bernardino
Department of Building & Safety

and when recorded mail to:

Department of Building and Safety
300 North D Street, Room #331
San Bernardino, CA 92418

87-091273

1FEE	2MSYS	3PCOR	4LNNT
0			
5 SVY	5__ __ DTT		6__ __
			J

RECORDED IN
OFFICIAL RECORDS
1987 MAR 20 PM 1:09
SAN BERNARDINO
CO., CALIF.

Space above this line for
recorder's use

DEPARTMENT OF BUILDING AND SAFETY

OF THE CITY OF SAN BERNARDINO, STATE OF CALIFORNIA

In the matter of the public
nuisance on property of

823 E. Norman Rd
San Bernardino, CA
Assessors No: 280 202 11

and DOES I through X, owners

Eugene & Emma Samuel

No. 3019

NOTICE OF PENDENCY

OF

ADMINISTRATIVE PROCEEDINGS

Notice is hereby given to all persons, pursuant to the San Bernardino Municipal Code, Title 15 of the City of San Bernardino that administrative proceedings have been commenced with respect to the structure or land located upon the following described real property in the City of San Bernardino:

TRACT NO 2228 Valley Truck Farms
No 4 E 1/2 LOT 46 Ex PTN TO
Flood Control

that such proceedings are based upon the noncompliance of such structure or land with the requirements of the San Bernardino Municipal Code; that every owner of said real property waives his right to hearing on such proceedings unless he makes a proper request in the form and within the time prescribed by the Code cited; and that failure to comply with the lawful orders of the Building Official and Board of Building Commissioners heretofore and hereafter issued relative to the above matter may result in demolition of the offending structure or abatement of the public nuisance and assessment of the costs and expenses thereof to the property heretofore described as a tax and special assessment lien on such property; that any purchaser, his heirs, or assigns acquiring said property subsequent to the recording of the Notice with the County Recorder shall have such interest subject and subordinate to said tax and assessment lien.

CITY BUILDING OFFICIAL

DATED March 13, 1987

BY Mark Young

RECORDED IN
OFFICIAL RECORDS

1987 MAR 20 PM 1:09

SAN BERNARDINO
CO., CALIF.

RECEIVED

APR 13 1987

BUILDING & SAFETY
CITY OF SAN BERNARDINO

PURCHASE ORDER
VENDOR'S COPY

CITY OF SAN BERNARDINO

OFFICE OF THE PURCHASING AGENT
250 W. CLUSTER STREET
SAN BERNARDINO, CALIFORNIA 92418

PURCHASE ORDER No. 903240

PAGE 1

07/26/88
DATE OF ORDER

TO WARREN DUNCAN
VENDOR

1700 PENNSYLVANIA AVE
ORDER ADDRESS

COLTON, CA 92324
CITY STATE ZIP

714 825-1546 -

VENDOR'S PAYMENT ADDRESS

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300 NO. "D", ROOM #331
SAN BERNARDINO, CA 92418

ORDERING DEPARTMENT
BUILDING & SAFETY

EQUIP. NO.	HAZ. MATL.	W.O. NO.
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PRICE/TERMS PER WARREN DUNCAN				

RECEIVED
AUG 30 1988
CITY OF SAN BERNARDINO
BUILDING & SAFETY

RECEIVED
AUG 29 1988
FINANCE DEPT.
CITY OF SAN BERNARDINO

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(1) COPY - TO EMERGENCY SERVICES DIV.
300 N. "D" ST. (BASEMENT)
SAN BERNARDINO, CA 92418

8-29-88
I have Inv.# 2411

****

GENERAL LEDGER ACCOUNT NUMBER

001-000-4-1733-00000-0000 $3,340.00

SUB TOTAL	******	$3,340.00
TOTAL	TAX ******	$0.00
TOTAL	FREIGHT **	$0.00
TOTAL	AMOUNT ***	$3,340.00

CC 345
COORDINATE DELIVERY WITH: DON HESTERLEY 384-5267
DELIVERY REQUIRED BY 07/26/88

ACCOUNTING CODE
ENCUMBRANCE AMOUNT:

BUYER TO CONTACT REGARDING THIS PURCHASE
Evelyn Wilson
EVELYN WILSON

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DEAN R. MEECH
PURCHASING AGENT

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FREIGHT CHARGES, IF ALLOWED MUST BE PREPAID AND ITEMIZED ON INVOICE. **ALL PURCHASES F.O.B. DELIVERY ADDRESS UNLESS OTHERWISE SPECIFIED ON PURCHASE ORDER.** ALL ARTICLES OR SERVICES FURNISHED PURSUANT TO THIS PURCHASE ORDER SHALL COMPLY WITH ALL CAL-OSHA STANDARDS AND REGULATIONS AND ALL APPLICABLE GOVERNMENTAL LAWS AND ORDERS.

ALL PURCHASES ARE SUBJECT TO THE CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS SHEET

Recording Requested By

City of San Bernardino
Department of Building & Safety

and when recorded mail to:

Department of Building and Safety
300 North D Street, Room #331
San Bernardino, CA 92418

Space above this line for
recorder's use

DEPARTMENT OF BUILDING AND SAFETY
OF THE CITY OF SAN BERNARDINO, STATE OF CALIFORNIA

In the matter of the public
nuisance on property of

823 E. Norman Rd
San Bernardino, CA
Assessors No: 280 202 11

and DOES I through X, owners

Eugene & Emma Samuel

No. 3019

NOTICE OF PENDENCY

OF

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TRACT NO 2228 Valley Truck Farms
No 4 E 1/2 LOT 46 Ex PTN TO
Flood Control

that such proceedings are based upon the noncompliance of such structure or land with the requirements of the San Bernardino Municipal Code; that every owner of said real property waives his right to hearing on such proceedings unless he makes a proper request in the form and within the time prescribed by the Code cited; and that failure to comply with the lawful orders of the Building Official and Board of Building Commissioners heretofore and hereafter issued relative to the above matter may result in demolition of the offending structure or abatement of the public nuisance and assessment of the costs and expenses thereof to the property heretofore described as a tax and special assessment lien on such property; that any purchaser, his heirs, or assigns acquiring said property subsequent to the recording of the Notice with the County Recorder shall have such interest subject and subordinate to said tax and assessment lien.

CITY BUILDING OFFICIAL

DATED March 13, 1987

BY Mark Young

DEPARTMENT OF BUILDING & SAFETY
CITY OF SAN BERNARDINO

Checked By FOB/ic

103

BUILDING		NO.	ELECTRICAL		NO.	PLUMBING	
			SQ. FT.			WATER CLOSET	
			SQ. FT.			LAVATORY	
			MAIN SWITCH			BATH TUB	
			OUTLETS			SHOWER	
			FIXTURES			KITCHEN SINK	
			SWITCHES			GARBAGE DISPOSAL	
			Meter reset			DISHWASHER	
						LAUNDRY TRAY	
						AUTOMATIC WASHER	
						WATER HEATER	
						FLOOR SINK	
						GAS SERVICE	
*ESTIMATED VALUATION						SEWER	
TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO						SEWER ALTER	
OPERATE AND USE PROPOSED BUILDING.						GAS DRYER	
HEATING – A.C. – REFRIGERATION						WATER SOFTENER	
NO. TYPE OF EQUIPMENT	FEE					LAWN SPRINKLER	
FORCED AIR UNITS							
WALL HEATERS							
REFRIGERATION H.P. EA.							
			PERMIT			PERMIT	
			TOTAL FEE	5.00		TOTAL FEE	
PERMIT			*CONTRACTOR			CONTRACTOR	
TOTAL FEE			x			x	

PAID
MAY 11 1976
City of San Bernardino
Building & Safety

CONTRACTOR

x

JOB ADDRESS: 823 Norman Rd

USE OF BUILDING: elec mtr reset

OWNER: Evelyn Ambler

DATE: 5/11/76

LEGAL DESCRIPTION:

REMARKS:

PERMIT NO. 16803

PLANS BY:

USE ZONE | FIRE ZONE

FINAL DATE 5/12/76 INSP. FOB

PERMIT	ACCOUNT NUMBER	AMOUNT
PLAN CHECK	01-009-411	
BUILDING	01-009-222	
ELECTRICAL	01-009-224	5.00
HEAT AND A.C.	01-009-223	
PLUMBING	01-009-223	
STRONG MOTION	72-816-000	
STORM DRAIN	48-009-495	
TOTAL		5.00

Heating, Electrical and Plumbing Permits will not be valid until names of sub-contractors have been furnished to Department of Building and Safety.

This permit shall become void if work is not commenced within 60 days. Cessation of work for 120 days shall also cause permit to become void.

I hereby agree that all work in connection with this permit will be done in accordance with the laws of the City of San Bernardino and the State of California. I also agree to carry compensation insurance upon my employees. Compliance with laws of the State of California covering contractors is also guaranteed.

FOR DWELLINGS ONLY

I declare under penalty of perjury that the following statements are true and correct:

I, the undersigned, hereby declare that I am the legal owner of the single family dwelling located at the address listed, that said dwelling is my bona fide residence and, that I, myself, will personally install all sanitary, gas or electrical work listed on this permit.

SIGNED _____
(OWNER)

OWNER	CONTRACTOR
Evelyn Ambler	
MAILING ADDRESS: 536 S Waterman Ave SB Ca	MAILING ADDRESS
PHONE: 889 7015	PHONE
SIGNATURE BY: x	STATE LIC. NO.
	SIGNATURE BY: x

FILE COPY

Building Address: (823) 823 Norman Rd

Owner: Les Bradbury

Mailing Address: 2526 E. Workman Ave

City: West Covina, Ca | Zip: 91791 | Tel.: 213/966 0222

Contractor: Henry Bush Plumbing

Address: 1880 W. Baseline

City: SB CA | Zip: 92411 | Tel.: 889 4658

State Lic. & Classif.: 71177 | City Lic. No.: 42786

Arch., Engr., Designer:

Address: | Tel.:

City: | Zip: | State Lic. No.:

Intended Permit Use: Gas Serv/Dwlg

Sq. Ft. Size: | No. Stories: | No. Dw. Units:

New ☐ Add ☐ Alter ☐ Repair ☐ Demolition ☐

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

by Matt 6/1/81

SIGNATURE DATE

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason: *(Sec. 7031.5, Business and Professions Codes: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law, Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom, and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).*

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)*

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improve thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)*

☐ I am exempt under Sec. _____ B. & P.C. for this reason _____

Date _____ Owner _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof. *(Sec. 3800, Labor Code.)*

82 48 Stnd. Truck Ins Exchng

Policy No. _____ Company _____

☐ Copy is filed with the city. ☐ Certified copy is hereby furnished.

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) valuation or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

NOTICE TO APPLICANT: If, after making this Certificate of Exemption you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. *(Sec. 3097, Civil Code.)*

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

by Matt 6/1/81

Signature of Applicant _____ Date _____

Mailing Address _____

City, State, Zip Same as above

ISSUED BY: CG/vf DATE 6/1/81 PERMIT # 47480

CITY OF SAN BERNARDINO
DEPARTMENT OF BUILDING AND SAFETY
300 North "D" Street, San Bernardino, CA 92418
Tel. (714) 383-5071

BUILDING: TYPE CONST. _____ OCC. GRP. _____

TRACT: _____ LOT _____ VALIDATED 6-1-81

This is a building permit when properly filled out, signed and validated, and is subject to expiration if work thereunder is suspended for 180 days.

ESTIMATED VALUATION	
ELECTRICAL	
Permit Fee	
TOTAL FEE	
PLUMBING	
1 gas serv	2.00
Permit Fee	10.00
TOTAL FEE	12.00
HEATING AND A.C.	
Permit Fee	
TOTAL FEE	

PERMIT	ACCOUNT NUMBER	AMOUNT
Plan Chk. Dep.	01-009-411	
Plan Chk. Bal.	01-009-411	
Building	01-009-222	
Mechanical	01-009-223	12.00
Strong Motion	72-816-000	
Storm Drain	48-009-495	
Parks & Rec.	43-009-413	
Sewer Conn.		
Sewer Cap		
TOTAL		12.00

REMARKS:

ZONE: _____ BY: _____

MINIMUM SETBACK DISTANCES:

_____ Front Setback From Center Line _____

_____ Rear Setback From Rear Property Line _____

_____ Side Street Setback From Center Line _____

_____ Side Setback From Property Line _____

FINAL DATE 5/22/81 INSPECTOR J Medina

STRUCTURE	PLUMBING		HEATING & AIR COND.		ELECTRICAL
SETBACK	LAVATORY	TOILET	A.C. UNIT		
EXCAVATION	BATHTUB	FL. DRAIN	FL. FURN.		
FORMS	SHOWER	SEWER	WALL FURN.		SERVICE
FOUND. REINF.	SINK	SEWER ALT.	F.A.U.		POOL
REINF. STEEL	LAUND. TUB	GAS SER.	EXH. FAN		SPA
GROUT	AUTO WASH.	WATER HTR.	EVAP. CLR.		TEMP. POLE
BOND BEAM	GAS DRYER	FLOOR SNK.	DUCT ALT.		SIGN
LUMBER GR.	URINAL	DRINK FTN.			BALLAST
FRAMING	SPRINKLER	SPA/PL. HTR.			MBL. HOME
ROOFING	POOL				
VENTILATION	SPA				
FIRE ZONE ROOFING					
FIREPLACE					
SPARK ARRESTOR					
GAR. FIREWALL					
LATHING	GROUND PLUMB.		A.C. UNIT		UNDERGROUND
MESH	ROUGH PLUMB.		HEATING (ROUGH)		BONDING
INSULATION/SOUND	SEWER OR SEPTIC TANK		DUCT WORK		ROUGH WIRING
FINISH GRADING	GAS (ROUGH)		HEATING (FINAL)		METER LOOP
	GAS (FINAL)				TEMP. POLE
CERT. OCC.	WATER HEATER				SERVICE
N.	WATER SYSTEM				
	FINAL INSP.		FINAL INSP.		FINAL INSP.

POOL FENCE & S/C GATES

W. E.

S.

SEWER CAPACITY:
SEWER CONNECTION:
STORM DRAIN:
PARKS & REC.:

INSPECTORS SIGNATURES/INITIALS

Building 323 Norman Road

Owner

Mailing Address City of San Bernardino

City	Zip	Tel.

Contractor Warren Duncan Equipment

Address 1700 Pennsylvania Ave

City	Zip	Tel.
colton	92324	825-1546

State Lic. & Classif. 251593 — City Lic. No. pd

Arch., Engr., Designer

Address — Tel.

City	Zip	State Lic. No.

Intended Permit Uses/family dwell

Sq. Ft. Size	No. Stories	No. Dw. Units

New ☐ Add ☐ Alter ☐ Repair ☐ Demolition ☐

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

SIGNATURE Warren Duncan DATE 8/8/88

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason: *(Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law, Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom, and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).*

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)*

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improve thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)*

☐ I am exempt under Sec. _____ B. & P.C. for this reason _____

Date _____ Owner _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof. *(Sec. 3800, Labor Code.)*

Policy No. AWC0144371 Company Westcrimer Ins

☐ Copy is filed with the city. ☐ Certified copy is hereby furnished.

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) valuation or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____ Owner _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. *(Sec. 3097, Civil Code.)*

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct, I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Signature of applicant Warren Duncan Date 8/8/88

Mailing Address _____

City, State, Zip _____

280-202-11 dj/pm ISSUED BY: _____ DATE 8/8/88 PERMIT No. 74481

CITY OF SAN BERNARDINO
DEPARTMENT OF BUILDING AND SAFETY
300 North "D" Street, San Bernardino, CA 92418
Tel. (714) 384-5071

BUILDING: TYPE CONST. _____ OCC. GRP. _____

TRACT: _____ LOT _____ VALIDATED 8/8/88

This is a building permit when properly filled out, signed and validated, and is subject to expiration if work thereunder is suspended for 180 days.

demolish & clear lot from s.b. purchasing agent PO # 903240	
ESTIMATED VALUATION	3340.00
ELECTRICAL	
Permit Fee	
TOTAL FEE	
PLUMBING	
Permit Fee	
TOTAL FEE	
HEATING AND A.C.	
Permit Fee	
TOTAL FEE	

PERMIT	ACCOUNT NUMBER	AMOUNT
Plan Chk. Dep.	001-000-41731	
Plan Chk. Bal.	001-000-41731	
Building	001-000-41330	63.00
Mechanical	001-000-41331	
Strong Motion	772-181-24591	.60
Storm Drain	248-000-41818	
Parks & Rec.	243-000-41732	
Sewer Conn.	245-000-41822	
Sewer Cap		
Signs	001-000-41332	
Cultural D.C.	001-000-41335	
TOTAL		63.60

REMARKS:

ZONE: _____ BY: _____

MINIMUM SETBACK DISTANCES:

_____ Front Setback From Center Line _____

_____ Rear Setback From Rear Property Line _____

_____ Side Street Setback From Center Line _____

_____ Side Setback From Property Line _____

FINAL DATE 8-30-88 INSPECTOR [illegible]

STRUCTURE	PLUMBING				HEATING & AIR COND.				ELECTRICAL
ETBACK	LAVATORY		TOILET		A.C. UNIT				
XCAVATION	BATHTUB		FL. DRAIN		FL. FURN.				
ORMS	SHOWER		SEWER		WALL FURN.				SERVICE
OUND. REINF.	SINK		SEWER ALT.		F.A.U.				POOL
EINF. STEEL	LAUND. TUB		GAS SER.		EXH. FAN				SPA
ROUT	AUTO WASH.		WATER HTR.		EVAP. CLR.				TEMP. POLE
OND BEAM	GAS DRYER		FLOOR SNK.		DUCT ALT.				SIGN
UMBER GR.	URINAL		DRINK FTN.						BALLAST
RAMING	SPRINKLER		SPA/PL. HTR.						MBL. HOME
OOFING	POOL								
ENTILATION	SPA								
IRE ZONE ROOFING									
IREPLACE									
PARK ARRESTOR									
AR. FIREWALL									
ATHING	GROUND PLUMB.				A.C. UNIT				UNDERGROUND
ESH	ROUGH PLUMB.				HEATING (ROUGH)				BONDING
NSULATION/SOUND	SEWER OR SEPTIC TANK				DUCT WORK				ROUGH WIRING
INISH GRADING	GAS (ROUGH)				HEATING (FINAL)				METER LOOP
	GAS (FINAL)								TEMP. POLE
ERT. OCC.	WATER HEATER								SERVICE
N.	WATER SYSTEM								
	FINAL INSP.				FINAL INSP.				FINAL INSP.

POOL FENCE & S/C GATES

I. E. Not Complete 8/22/88 JL

Final 8/30/88 Mary

S.

EWER CAPACITY:

EWER CONNECTION:

TORM DRAIN:

ARKS & REC.:

NSPECTORS SIGNATURES/INITIALS JL Mary Mark Lyons

City of San Bernardino
DEVELOPMENT SERVICES
300 North "D" Street, San Bernardino, CA 92418
Office (909) 384-5071 Inspection (909) 384-5078

Application For Inspection

A0200133

Job Address: **867 E NORMAN RD**
Suite #:
Cross Street: WATERMAN
Parcel: 0280-202-09-0000
Applicant: CAMARANA JORGE
Address: 2334 N SIERRA WAY
SAN BERNARDINO CA92405
Owner: EVANS JOHN L
Address: 867 E NORMAN RD
SAN BERNARDINO CA92408

Status: ISSUED
Applied: 05/22/2002
Issued: 05/22/2002
Phone: 909-886-3220

Phone:

Type of Inspection

Pre-Permit Inspection Case #: HUD: Other:

Special Investigation: Fire Damage: Complaint:

Meter Reset Electrical: 1 Gas: 0

Inspection Outside of Normal Business Hours Number of Hours Requested: 0

Date of Inspection: Time: Purpose: Approval: 5.24.02

Inspected By: Mike Hansen Utility Released: Electrical

Fee Summary

Pre-Permit Fee:	$0.00	Inspection Out of Hrs:	$0.00
Re-Inspection Fee:	$0.00	PW Out of Hours:	$0.00
Special Investigation Fee:	$0.00	Processing Fees:	$11.00
Meter Reset Fee:	$40.00	Total Fees:	$51.00
Other Fee:	$0.00	Amount Received:	$51.00
Building Fee:	$0.00	Balance Due:	$0.00

Comments/Special Conditions

ELECTRIC METER RESET

I hereby affirm that I am a duly authorized agent of the person having control of the property (owner/tenant)and have been granted the authority to authorize inspections by the City. I hereby authorize representatives of the City of San Bernardino to enter upon the above referenced property of the purpose of this inspection. I understand that it is my responsibility to request the inspection and to insure that the property is accessible on the scheduled date. I acknowledge that this application shall become null and void, and the fees paid shall be forefeited, if I fail to obtain the inspection or to complete the inspection process within 180 days from the date of this application. I hereby sign under penalty of perjury.

Signature of Legal Ower, Tenant, or Agent: _____ Date: 5/22/02

Note: If this application is for a Pre-permit inspection or a Special Investigation, and someone other than the owner or a licensed contractor is the signatory, a letter of authorization is required.

Distribution: White-Inspectior Yellow-Applicant Pink-HD File

470

CITY OF SAN BERNARDINO
Development Services Department, Planning Division
300 North "D" Street, 3rd Floor
San Bernardino, CA 92418
Phone (909) 384-5057 • FAX (909) 384-5080
Web address: www.sbcity.org

ZONING VERIFICATION REVIEW

Name of Business: Single Family

New Business Location (Address): 867 E Norman Suite # _____

Note: Only one business is allowed in each space, suite, etc.

Type of Business (Describe): Rental

Business is located in: ☑ a single-tenant building/property; or ☐ a multi-tenant building/center.

Has the building/center been vacant for more than one (1) year? ☐ Yes ☑ No

CHECK HERE IF THIS IS A CHANGE IN OWNERSHIP OF AN EXISTING BUSINESS WITH NO CHANGE IN USE: ☐

IF SO, HOW LONG HAS THE USE EXISTED AT ABOVE LOCATION? _____

PLEASE READ BEFORE CERTIFIFYING:

1) This review is required to obtain a City Business Registration Certificate. IT IS NOT AN APPROVAL TO OCCUPY A STRUCTURE and does not imply that the site/building complies with City Code requirements nor does it relieve the business/property owner from any other applicable City requirements or external agency permits.

2) A Development Permit or Conditional Use Permit may be required to establish the proposed use. If so, improvements or conditions may be required of the property and must be installed, completed, or met prior to establishing the business.

3) A Certificate of Occupancy will be required prior to occupancy of the building if the building has been vacant more than six (6) months or if there is a change of occupancy based on the Uniform Building Code.

4) If a Code Compliance case or violation exists, it must be closed prior to the establishment of any use. It is the responsibility of the Business Representative/Owner to contact the Code Compliance Division [Located at 201 N. "E" Street – (909) 384-5205] to identify & resolve any outstanding code enforcement actions.

CERTIFICATION: I hereby certify, under penalty of perjury, that I have read and understand statements 1, 2, 3, & 4 listed above and further certify that the information filled in above is correct. I agree to comply with all applicable State and City laws pertaining to business operations and Building, Fire, and Development Code requirements. In addition, I certify that I am the property owner or authorized by the property owner as the business representative to establish the proposed business at the given address. I acknowledge that in the event the business is established prior to meeting any of the requirements identified below, the business will be immediately closed and all associated costs will be assessed to the business owner.

Please Print Your Name V Barajas Telephone # 5015

Signature: _____ Date: 4/14/08

☐ Property Owner or ☑ Authorized Representative

NOTE: If a Business Registration Certificate is not obtained within sixty (60) days, a new zoning verification review is required.

– Office Use Only –

APN: 0280-202-09-0000

Previous legal use of bldg./lease space: Single Family Residence

The business address referenced above is located in the IL General Plan Land Use/Zoning District and the proposed use is: Rental of a Single Family Residence

☑ PERMITTED – A Business Registration Certificate may be issued.

☐ PERMITTED SUBJECT TO DEVELOPMENT PERMIT TYPE I APPROVAL – A Business Registration Certificate may be issued. However, a Development Permit Type I must be obtained before the use may be established.

☐ NONCONFORMING – A Business Registration Certificate may be issued. The proposed business is a continuation of a nonconforming use. If the building is left vacant for over one (1) year, the proposed business will lose its nonconforming status and all uses thereafter shall conform to the Development Code.

☐ CONDITIONAL USE PERMIT REQUIRED – A Business Registration Certificate may not be issued until a Conditional Use Permit has been obtained.

☐ NOT PERMITTED – A Business Registration Certificate may not be issued. The proposed use is not allowed in the land use/zoning district referenced above.

Related Planning Case(s): _____

Comments: Rental of a single family Rental is a permitted use in an IL District since the SFR was legally permitted and existing prior to June 1991. Conversion of the SFR use to an industrial use requires an approved DPL.

Reviewing Planner: _____ Date: 04/18/2008

DISTRIBUTION: WHITE – Business Registration Div. • YELLOW – Applicant 3/06

BUILDING PERMIT

Region 201 | By CS | Application Date 6/18/76 | Plans / Plot | Gr. E4 | Type Con. 5N | Fire Zone | Plan No. 55

Index No. 246-94

To be filled in by Applicant — PLEASE PRINT OR TYPE

Owner's Name: Dodd's Auto Repair — Phone No. 985-1902

Owner's Mailing Address: 24656 Norman Rd — City: SB — Zip:

JOB SITE ADDRESS: 24656 Norman Rd — City: SB

Lot No. — Block No. — Tract No.

Lot 13 & the W 65' of lot 12 - Tract 2888

Sec. — Twn. — Rng.

Intended Permit Use: REPAIR GARAGE CANOPY

Lot Dimensions	No. Stories	No. Bedrms	No. Dwell. Units	No. Dwell. Units Now on Lot	No. Fireplaces

No. Bldgs. Now on Lot — How Used: ENGR. 8850266

Contractor: Owner — When Plans Checked Notify: Dodd

Contractor's Mailing Address — City — Zip — Phone No.

24656 Norman SBd

FLOOR	EXT. WALLS	INT. WALLS	CEILING	ROOF	HEATING	SEWAGE SYSTEM
Conc.	Masonry	Masonry	Open Beam	Wood	Elect.	
Wood	Frame	Frame	Plaster	Comp. Sh.	Nat.Gas	Public
	Stucco	Plaster	Sheetrock	Built-up	L.P.G.	Private
	Siding	Sheetrock	Wood	Metal	Oil	Min.Depth
	Metal	Wood	Fiber Board	Tile	Solid	S.F./100 gal.

	Sq. Ft.	Factor	Adjusted Area or Valuation
1	1274	10.00	12740
2			
3			
Gar.			
Porch			
F.P.			

Valuation $ 12,740.00 — Adjusted Area 12740

Grading — Cu. Yds.

ELECTRICAL

PLUMBING

MECHANICAL

APPLICANT PLEASE READ CAREFULLY

I have read this application and agree to comply with ordinances and laws regulating building construction. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become in violation of the workman's compensation laws of California.

Owner's Signature

Signature: [signature] License No. 11447

Other Fee (Specify)		
Plan Ck. Fee	42	90
Constr. Fee	66	00
Elect. Fee		
Plumbing Fee		
Mech. Fee		
Permit Fee		
TOTAL FEE	$ 108	90

Receipt Num. 21705 — Check No.

FOR DEPARTMENT USE ONLY

Plan Ck. Valuation

Hwy CC

Minimum Property Setback Distances

ZONE M-1 — AP No.

Front Setback from Center Line — R/W

Rear Setback from Rear Property Line

Side Street Setback from Center Line — R/W

Side Setback from Property Line

Side Setback from Property Line

HOLD: Plans / P.C. / Fee / Engr. / Var. / Lot Split / Notified: Owner, Contr., Engr.

Released DC 6/21/76

Pre-Alter

Citation No.

NOTE

COUNTY OF SAN BERNARDINO, BUILDING AND SAFETY DEPT.

03 1358-456 Rev. 5/75

107

JOB ADDRESS: 867 Norman Road APN: 280-202-09

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418

DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-LINK

PERMIT NUMBER
Nº 98174

DATE 10/05/94
PLAN CK. NO.

Job Address: 867 Norman Road APN: 280-202-09
Major Cross Sts: Waterman Avenue TRACT/LOT:
DESCRIPTION OF PROJECT: Electric Box Change Out 100 AMP

NO. ROOMS: 4 NO. STORIES: 1 SQ. FT.: 1,100
OWNER: Johnny Evans OWNER/BLDR. YES X NO
MAILING ADDRESS: 867 Norman Road
CITY/STATE: San Bernardino, CA ZIP: 92408 TEL.:
APPLICANT/CONTRACTOR: Owner
ADDRESS:
CITY/STATE: ZIP: TEL.:
CONTRACTOR'S STATE LIC. #: BUS. LICENSE:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW
Pre-inspection Rpt.
(attach Copy to Permit)
Construction Type Occupancy Type
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No Zone
High Fire: Yes No Zone

Workman's Comp. Insurance
Yes No
Issued by
Expiration date:
Comments:

PLANNING REVIEW
Planning Case File:
Zone: By:
Comments:

CODE ENFORCEMENT
File/Project #: 3226 N/F
Comments:

Before Issuing Permit *-- Verify that the following applicable fees have been paid.*
6024 - Sewer Capacity Fees:
Date:
Recpt. No.
School District Fees:
Date:

Receipt No.: 673573
By: G. Franske/kdw

Estimated Valuation:
Bldg. Construction:

Electrical:
100 AMP Service 18.50
Permit Fee: $15
Total Elec. Fees 33.50

Plumbing:
Permit Fee: $15
Total Plumb. Fees:

Heating & A/C
Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

41331	Total Elec/Plumb/Htg.	33.50
41731	Pln. Check Dep.	
41731	Plan Check Fees	
41330	Building Permit Fees	
41330	Investigation Fees	
41305	Sign Permit Fees	
41305	C. of O. Fee	
24591	Strong Motion Fees	

PLANNING DIVISION

41720	C. Of O. Fee	
41766	Zoning Consistency Review Fee	
41720	Plan Review Fee	

ENGINEERING DIVISION

41818	Storm Drain Fees	
41822	Sewer Conn. Fees	
41803	Traffic Signal Fees	

PARK & RECREATION

41732	Park Development Fees	

CULTURAL DEVELOP. FUND

41335	Cultural Development Fees	

Total Fees Due: 33.50

EXPIRATION

This permit shall be void and of no further force or effect if work is not commenced within 180 days or if work is suspended or abandoned for a period of 180 days or more after work is commenced. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

APPLICANT / PROJECT OWNER RESPONSIBILITY

1. The project address must be visible from street. Check address visibility prior to calling for inspections (UBC Section 513).
2. Lot corners/property lines must be properly staked in order to do a setback inspection. If neighboring structures appear not to have the proper setbacks a field survey by a licensed land surveyor shall be required (UBC Section 305[a]).
3. City "approved" plans and job inspection card must be on project site, available for Building Inspector's examination (UBC Section 303[b]).
4. The Department of Building and Safety must be called to make progress inspections (UBC Section 305[a]).
5. All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC Section 305[a]).
6. The project is to be built in accordance with City approved plans. Deviations from approved plans must be approved in writing from the City (UBC Section 303[a]).
7. The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC Section 308[a]).

JOB ADDRESS: ~~280-202-09~~ 867 NORMAN APN: 280-202-09

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418

DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-LINK

PERMIT NUMBER 98174
DATE 10-5-94
PLAN CK. NO.

Job Address: 867 Norman Rd APN:
Major Cross Sts: Waterman TRACT/LOT:
DESCRIPTION OF PROJECT: Electric Box Change Out 100 AMP

NO. ROOMS: 4 NO. STORIES: 1 SQ. FT.: 1100
OWNER: Johnny C Evans OWNER/BLDR. YES ✓ NO
MAILING ADDRESS: 867 Norman Rd
CITY/STATE: San Bernardino CA ZIP: 92408 TEL.:
APPLICANT/CONTRACTOR: OWNER
ADDRESS:
CITY/STATE: ZIP: TEL.:
CONTRACTOR'S STATE LIC. #: BUS. LICENSE:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW
Pre-inspection Rpt.
(attach Copy to Permit)
Construction Type Occupancy Type
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No Zone
High Fire: Yes No Zone

Workman's Comp. Insurance
Yes No
Issued by
Expiration date:
Comments:

PLANNING REVIEW
Planning Case File:
Zone: By:
Comments:

CODE ENFORCEMENT
File/Project #: 3226 N/F
Comments:

Before Issuing Permit *– Verify that the following applicable fees have been paid.*
6024 - Sewer Capacity Fees:
Date:
Recpt. No.
School District Fees:
Date:

Receipt No.: 673573
By: GEDL

Estimated Valuation:
Bldg. Construction:
~~100 AMP SERVICE~~

Electrical: 100 AMP SERVICE
19.50
Permit Fee: $15
Total Elec. Fees 33.50

Plumbing:
Permit Fee: $15
Total Plumb. Fees:

Heating & A/C
Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

41331	Total Elec/Plumb/Htg.	33.50
41731	Pln. Check Dep.	
41731	Plan Check Fees	
41330	Building Permit Fees	
41330	Investigation Fees	
41305	Sign Permit Fees	
41305	C. of O. Fee	
24591	Strong Motion Fees	

PLANNING DIVISION

41720	C. Of O. Fee	
41766	Zoning Consistency Review Fee	
41720	Plan Review Fee	

ENGINEERING DIVISION

41818	Storm Drain Fees	
41822	Sewer Conn. Fees	
41803	Traffic Signal Fees	

PARK & RECREATION

41732	Park Development Fees	

CULTURAL DEVELOP. FUND

41335	Cultural Development Fees	

Total Fees Due: 33.50

EXPIRATION

This permit shall be void and of no further force or effect if work is not commenced within 180 days or if work is suspended or abandoned for a period of 180 days or more after work is commenced. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

APPLICANT / PROJECT OWNER RESPONSIBILITY

1. The project address must be visible from street. Check address visibility prior to calling for inspections (UBC Section 513).
2. Lot corners/property lines must be properly staked in order to do a setback inspection. If neighboring structures appear not to have the proper setbacks a field survey by a licensed land surveyor shall be required (UBC Section 305[a]).
3. City "approved" plans and job inspection card must be on project site, available for Building Inspector's examination (UBC Section 303[b]).
4. The Department of Building and Safety must be called to make progress inspections (UBC Section 305[a]).
5. All work is to be inspected prior to covering; work covered without City inspection must be uncovered at owner's/contractor's expense (UBC Section 305[a]).
6. The project is to be built in accordance with City approved plans. Deviations from approved plans must be approved in writing from the City (UBC Section 303[a]).
7. The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC Section 308[a]).

CITY OF SAN BERNARDINO PLANNING AND BUILDING SERVICES DEPARTMENT

BUILDING DEVELOPMENT PERMIT APPLICATION

BUILDING DEVELOPMENT PERMIT CERTIFICATIONS

WORKMAN'S COMPENSATION DECLARATION / EXEMPTION:
This section need not be completed if the work to be performed under this permit is valued at one hundred ($100) or less. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to Workers' Compensation Laws of California.

APPLICANT SIGNATURE _____ Date _____
NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Wrokers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

WORKERS' COMPENSATION DECLARATION:
I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

☐ Certified copy is hereby furnished. ☐ Certified copy is already filed with the Planning and Building Services Department of the City of San Bernardino

Workman's Compensation Carrier: _____ Policy No. _____ Exp. Date _____

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

CONTRACTOR'S SIGNATURE _____ Date _____

CONSTRUCTION LENDING AGENCY:
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name _____ Lender's Address _____

No Construction Lender ☐

SIGNATURE _____ Date _____

OWNER-BUILDER DECLARATION:
I hereby affirm that I am **EXEMPT FROM THE CONTRACTOR'S LICENSE LAW** for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00):

SIGNATURE: Johnny L. Evans Date _____

I, as owner of the property, or my employees with wages as their sole compensation; **WILL DO THE WORK,** and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code; The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

SIGNATURE: Johnny L. Evans Date _____

I, as owner of the property, am **EXCLUSIVELY CONTRACTING** with licensed contractors to construct the project (Sec. 7044, Business and Professions Code; The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).
Contractor's list must be attached. ☐ Yes ☐ No

SIGNATURE _____ Date _____

I am exempt under Sec. _____ Business and Professions Code for this reason:

_____

Owner ID verified by driver's license. ☐ Yes ☐ No Driver's License No. _____ Expires: _____

Verification of Ownership by (type of document, i.e. - property tax bill or deed): _____

DIVISION OF INDUSTRIAL SAFETY PERMIT CERTIFICATION:

☐ I hereby certify that no excavation five (5) or more feet in depth into which a person is required to descend, will be made in connection with work authorized by this permit, and that no building structure, scaffolding, falsework, or demolition or dismantling thereof, will be more than thirty-six (36) feet high. (Chap. 3.2, Grp 2, Art 2, Sec. 341, Title 8, California Administrative Code).

☐ As owner-builder, I will not employ anyone to do work which would require a permit from the Division of Industrial Safety, as noted above, unless such person has a permit to do such work from the Division.

SIGNATURE _____ Date _____

Division of Industrial Safety Permit No. _____

HAZARDOUS MATERIALS AND EMISSIONS CERTIFICATION

1. Will the applicant or present or future building occupant need to file and certify a Business Plan for emergency response to a release or threatened release of a hazardous material?
Yes ☐ No ☐
(Section 25505 of the California Health and Safety Code requires, with some exceptions, that a Business Plan be filed with the County of San Bernardino by every business which has at any one time during a reported year a quantity of hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

2. Does or will the applicant or present or future building occupant need to file a registration form for acutely hazardous materials?
Yes ☐ No ☐
(Section 25533 of the California Health and Safety Code, with some exceptions, requires registration with the County of San Bernardino by each business which at any one time has on hand a quantity of acutely hazardous materials equal to or greater than a weight of 500 pounds, or a volume of 55 gallons, or 200 cubic feet of compressed gas at standard temperature and pressure).

3. Does or will the applicant or present or future building occupant need to prepare an RMPP (Risk Management and Prevention Program for accutely hazardous materials)?
Yes ☐ No ☐
(Section 25534 of the California Health and Safety Code provides that the County of San Bernardino may require the preparation, certification and filing with the County of an RMPP by businesses which are required to register acutely hazardous materials with the County).

4. If an RMPP is presently required, has Section 25534 of the California Health and Safety Code been fully complied with?
Yes ☐ No ☐

5 Does or will the applicant or present or future building occupant require for the work which is the subject of this application a permit for such construction or modification from the South Coast Air Quality Management District or from any other air pollution control district or agency?
Yes ☐ No ☐
(Section 65850.2 of the California Government Code requires that the requested information be furnished on applications for non-residential building permits).

6. Will any part of the facility to be constructed under this permit be within 1000 feet from the outer boundaries of a school?
Yes ☐ No ☐
(If "yes", the facility must meet the requirement of Sections 25534 and 42303 of the California Health and Safety Code).

7. If a permit from the South Coast Air Quality Management District or other air pollution control district or agency is required for the work which is the subject of this application, have all of the disclosures prescribed by California Health and Safety Code Section 42303 been made?
Yes ☐ No ☐
(If "yes", attach certificate of compliance from the appropriate air pollution control officer).
Certificate of compliance: I certify that under penalty of perjury the information given above is correct. I agree to comply with all state laws and city ordinances regarding Hazardous Materials and Emissions.

SIGNATURE _____ Date _____

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

SIGNATURE OF LEGAL OWNER(S) and / or AUTHORIZED APPLICANT

Johnny L. Evans Date _____

_____ Date _____

_____ Date _____

JOB ADDRESS: 867 Norman Road APN: 280-202-09

BUILDING DEVELOPMENT PERMIT

CITY OF SAN BERNARDINO
300 North "D" Street • San Bernardino, CA 92418

DEPARTMENT OF PLANNING AND BUILDING SERVICES
Information — (909) 384-5071 Inspections — (909) 384-LINK

PERMIT NUMBER
No. 98174

DATE 10/05/94
PLAN CK. NO.

Job Address: 867 Norman Road APN: 280-202-09
Major Cross Sts: Waterman Avenue TRACT/LOT:
DESCRIPTION OF PROJECT:
Electric Box Change Out 100 AMP

NO. ROOMS: 4 NO. STORIES: 1 SQ. FT.: 1,100
OWNER: Johnny Evans OWNER/BLDR. YES X NO
MAILING ADDRESS: 867 Norman Road
CITY/STATE: San Bernardino, CA ZIP: 92408 TEL.:
APPLICANT/CONTRACTOR: Owner
ADDRESS:
CITY/STATE: ZIP: TEL.:
CONTRACTOR'S STATE LIC. #: BUS. LICENSE:

(OFFICIAL USE ONLY)

BUILDING CODE REVIEW

Pre-inspection Rpt.
(attach Copy to Permit)
Construction Type Occupancy Type
Sprinklers: Yes No
Flood Plain: Yes No Zone
High Wind: Yes No Zone
High Fire: Yes No Zone

Workman's Comp. Insurance
Yes No
Issued by
Expiration date:
Comments:

PLANNING REVIEW

Planning Case File:
Zone: By:
Comments:

CODE ENFORCEMENT

File/Project #: 3226 N/F
Comments:

Before Issuing Permit *-- Verify that the following applicable fees have been paid.*

6024 - Sewer Capacity Fees:
Date:
Recpt. No.
School District Fees:
Date:

Receipt No.: 673573
By: G. Franeke/kdw

Estimated Valuation:
Bldg. Construction:

Electrical:
100 AMP Service
18.50
Permit Fee: $15
Total Elec. Fees 33.50

Plumbing:
Permit Fee: $15
Total Plumb. Fees:

Heating & A/C
Permit Fee: $15
Total HVAC Fees:

BUILDING/DEV. SVCS. DIVISIONS

41331	Total Elec/Plumb/Htg.	33.50
41731	Pln. Check Dep.	
41731	Plan Check Fees	
41330	Building Permit Fees	
41330	Investigation Fees	
41305	Sign Permit Fees	
41305	C. of O. Fee	
24591	Strong Motion Fees	

PLANNING DIVISION

41720	C. Of O. Fee	
41766	Zoning Consistency Review Fee	
41720	Plan Review Fee	

ENGINEERING DIVISION

41818	Storm Drain Fees	
41822	Sewer Conn. Fees	
41803	Traffic Signal Fees	

PARK & RECREATION

41732	Park Development Fees	

CULTURAL DEVELOP. FUND

41335	Cultural Development Fees	

Total Fees Due: 33.50

EXPIRATION

This permit shall be void and of no further force or effect if work is not commenced within 180 days or if work is suspended or abandoned for a period of 180 days or more after work is commenced. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

APPLICANT / PROJECT OWNER RESPONSIBILITY

1. The project address must be visible from street. Check address visibility prior to calling for inspections (UBC Section 513).
2. Lot corners/property lines must be properly staked in order to do a setback inspection. If neighboring structures appear not to have the proper setbacks a field survey by a licensed land surveyor shall be required (UBC Section 305[a]).
3. City "approved" plans and job inspection card must be on project site, available for Building Inspector's examination (UBC Section 303[b]).
4. The Department of Building and Safety must be called to make progress inspections (UBC Section 305[a]).
5. All work is to be inspected prior to covering; work covered without City inspection must be uncovered at owner's/contractor's expense (UBC Section 305[a]).
6. The project is to be built in accordance with City approved plans. Deviations from approved plans must be approved in writing from the City (UBC Section 303[a]).
7. The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC Section 308[a]).

CITY OF SAN BERNARDINO PLANNING AND BUILDING SERVICES DEPARTMENT

BUILDING DEVELOPMENT PERMIT INSPECTION APPROVALS

CALL FOR INSPECTION
Requests for inspection shall be made in advance by calling 909/ 384-LINK (384-5465) by 2:00 p.m. of the day prior to the day needed for inspection.

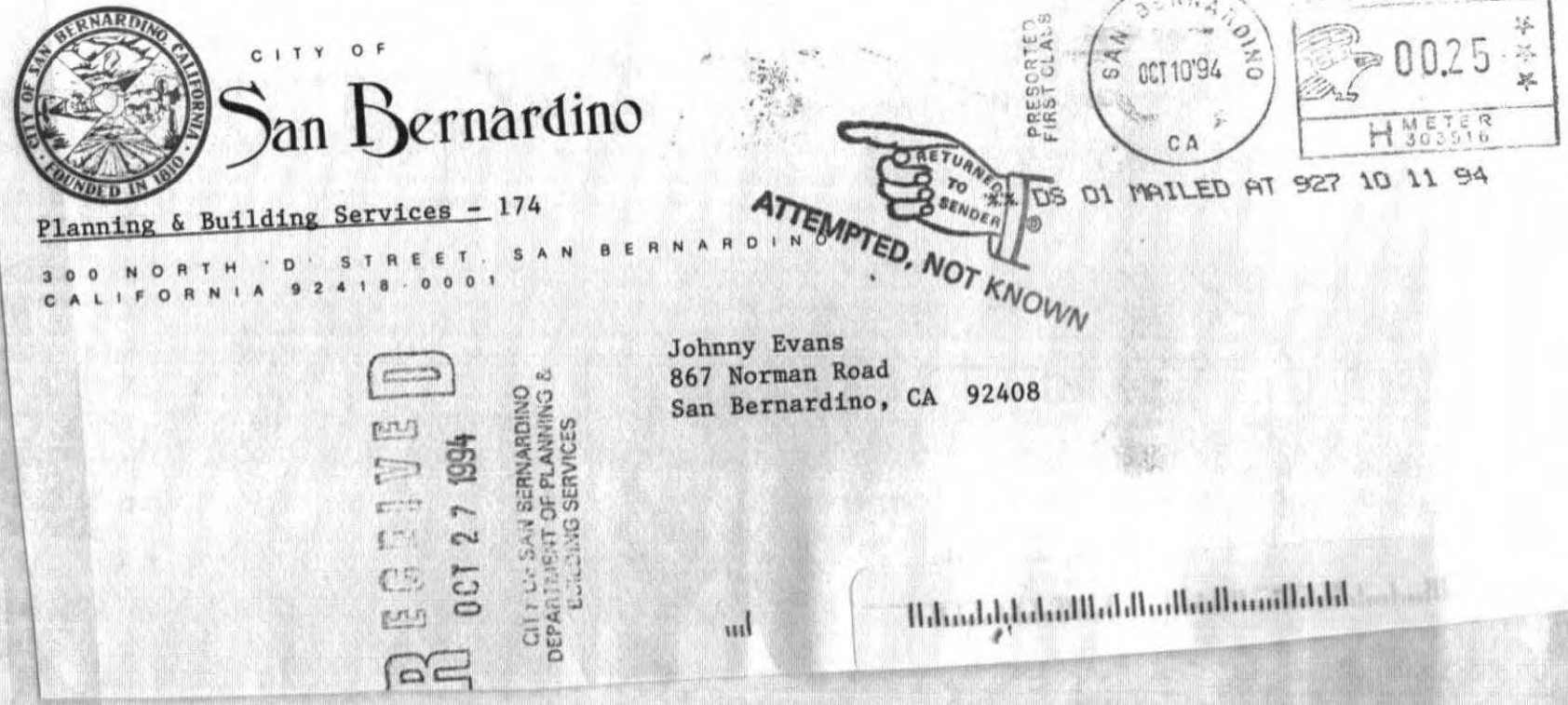
INSPECTION APPROVAL RECORD

Do not proceed until previous inspection block has been approved, if applicable.

INSPECTION ITEM	COMMENTS	OK DATE	INSPECTOR
Power Pole/Meter Loop			
Rough Grading (Eng. Insp.)			
Setback			
Excavation/Forms/Steel/Footings			
Ground Plumbing			
Electrical Ground/Bounding			
Underslab Conduit/Ducts			
Slab Grade			
Masonry & Steel			
Masonry Grout			
Roof Sheathing			
Shear Nail			
Framing and Ventilation			
Rough Heating/Vents/A.C.			
Rough Electrical/Service	H SMOKE DET	10-13-94	CBK
Rough Plumbing/Vents			
Rough Fire Sprinkler			
Insulation & Certificate			
Stucco-Mesh or Exterior Siding			
Lath or Drywall Nailing			
Stucco Scratch			
Stucco Brown			
Sewer/Sewage Disposal			
Water Service			
T-Bar			
Gas Line Air Test			
Roof Covering			
Pool Pre-Gunite			
Pool Pre-Plaster			
Demolition			
Final Electrical			
Final Plumbing			
Final Heating/A.C./Refrig.			
Final Grading (Eng. Insp.)			
Planning Requirements			
Final Fire Approval			
Final Construction			
Health Dept. Approval			

Final Inspection — OK to Occupy _____ INSPECTOR _____ DATE

(Signed When Applicable) WHEN SIGNED, THIS PERMIT IS YOUR CERTIFICATE OF OCCUPANCY.



CITY OF
San Bernardino

Planning & Building Services - 174

300 NORTH "D" STREET, SAN BERNARDINO
CALIFORNIA 92418-0001

PRESORTED FIRST CLASS

SAN BERNARDINO CA OCT 10'94

00.25

METER 303916

RETURNED TO SENDER

ATTEMPTED, NOT KNOWN

DS 01 MAILED AT 927 10 11 94

RECEIVED OCT 27 1994

CITY OF SAN BERNARDINO
DEPARTMENT OF PLANNING &
BUILDING SERVICES

Johnny Evans
867 Norman Road
San Bernardino, CA 92408

CITY OF

San Bernardino

FIRE DEPARTMENT
WILLIAM L. WRIGHT
FIRE CHIEF

FIRE PREVENTION DIVISION

April 5, 1993

Thurman Dodd, Owner/Representative
Dodd & Son Auto Repair
862 Norman Road
San Bernardino, CA 92408

Re: Fire Department Order to Stop Operations located at 878 Norman Road, San Bernardino, California - Parcel #280-201-16 - Assessed to Norma Dodd

Mr. Dodd:

This letter shall serve as an addendum to Violation Notice issued to you on March 24, 1993.

On March 24, 1993, a fire and life safety inspection found numerous fire code violations which were so situated as to endanger life and property. Therefore, pursuant Uniform Fire Code, Article 2.204, it was found necessary to order operations stopped at Dodd & Son Auto Repair, 878 East Norman Road, San Bernardino, California.

This Department has two major concerns which need IMMEDIATE attention in order to comply with the fire law of this City - safeguarding the property from fire and re-opening your operation in a timely manner.

You shall IMMEDIATELY COMMENCE abatement of all conditions which are imminent threats to fire and life safety and provide measures prescribed by the City's fire code standard to operate an operation defined as an auto repair, wrecking and dismantling yard.

Compliance of the following items found during this survey will avoid future litigation and will warrant this department to approve continuance of Dodd and Son Auto Repair operations.

200 EAST THIRD STREET, SAN BERNARDINO
CALIFORNIA 92410-4889
(909)384-5388 • FAX: (909)384-5470

PRIDE IN PROGRESS

You may appeal this decision by filing a written objection in the Office of the Fire Chief of this City. At nine-thirty a.m., on the Tuesday next following the date of receipt of such appeal or any date to which the hearing is continued, the Fire Commission of the City shall hold a public hearing at the Central Fire Station, 200 East Third Street, San Bernardino, California, and shall hear and consider objections to the proposed abatement and shall approve or reject any objections.

After hearing and considering objections, the Fire Commission, by motion, may find the existence of a public nuisance and may order the Director of Public Services to cause such nuisance to be abated under Chapter 8.18.030, San Bernardino Municipal Code, provided that you, the owner of the land, shall first have five days from the date of the order to remove and abate the nuisance at his own expense.

In the event objections are not made, you may remove and abate the nuisance at your expense, provided such removal and abatement is completed prior to the commencement of abatement thereof by the Director of Public Services or his representative.

Reinspections will be conducted on or about November 19, 1993 for securing of land and on December 10, 1993 for abatement of burned debris.

FAILURE TO COMPLY IS AN INFRACTION WHICH MAY RESULT IN CIVIL/CRIMINAL ACTIONS TAKEN IN ORDER TO GAIN COMPLIANCE.

Thank you for your prompt attention on this matter and please call if this Department can be of any assistance.

Sincerely,

WILLIAM L. WRIGHT, FIRE CHIEF

Rita Kent

Rita Kent
Fire Inspector

cc: City Attorney
County Environmental
City Building & Safety
City Police
Mr. Thurman Dodd

File

CITY OF

San Bernardino

RECEIVED
NOV 15 1993
CITY OF SAN BERNARDINO
DEPARTMENT OF PLANNING &
BUILDING SERVICES

FIRE DEPARTMENT
WILLIAM L. WRIGHT
FIRE CHIEF

FIRE PREVENTION DIVISION

November 10, 1993

Norma Dodd
1576 West 8th Street
San Bernardino, CA 92411

Subject: Fire Occurring at ~~878 East Norman Road - Known as Dodd & Son Auto~~ Repair - Parcel 208-201-16 - Incident #93-00003047

Ms. Dodd:

On October 28, 1993, the property you own at 878 East Norman Road known as Dodd & Son Auto Repair was damaged by an extensive fire. A structure was totally lost, along with large accumulations of tires, several vehicles and various other items used in this operation which was an auto repair and junk yard.

The fire has left your parcel of land a major threat to the neighborhood, being that the grounds are not secured from illegal entries and the initial violations found are still existing.

THEREFORE, pursuant Uniform Fire Code, Article 11.604 and San Bernardino Municipal Code, Section 8.18.030, the following shall be required:

1. Secure this property by fencing, barricading or other appropriate measures which will secure property from unauthorized entries. Abatement shall commence within five (5) days and completion of such abatement shall be completed within ten (10) days from the date of this notice. U.F.C. 11.604

2. All fire damaged materials shall be removed from this property. This shall be completed within thirty days from the serving/posting of this notice. S.B.M.C. 8.18.030

200 EAST THIRD STREET, SAN BERNARDINO
CALIFORNIA 92410-4889
(909)384-5388 • FAX: (909)384-5470

PRIDE IN PROGRESS

CITY OF

San Bernardino

FIRE DEPARTMENT
WILLIAM L. WRIGHT
FIRE CHIEF

FIRE PREVENTION DIVISION

September 8, 1993

Thurman Dodd, Owner/Representative
Dodd & Son Auto Repair
862 Norman Road
San Bernardino, CA 92408

RE: Fire Department Order to Stop Use of Buildings at 878 East Norman Road, San Bernardino, California - Known as Dodd & Son Auto Repair - Parcel 280-201-16, Assessed to Norma Dodd

Mr./Ms. Dodd:

It has been found you are using the buildings and yard at subject location for the purpose of automobile repair, dismantling and junk part sales.

On April 5, 1993, you were ordered by this Department not only to cease use of these buildings, but also to stop all operations upon subject parcel until all City and County fire, building and health code violations were corrected. COMPLIANCE OF THIS ORDER WAS REQUIRED BY UNIFORM FIRE CODE, ARTICLE 3, SECTION 102.

YOUR FAILURE TO COMPLY WITH THIS DEPARTMENT'S ORDER HAS RESULTED IN REFERRING ALL OPERATIONS AND STRUCTURES AT 878 EAST NORMAN ROAD, KNOWN AS DODD AUTO REPAIR, TO THE CITY BUILDING OFFICIAL FOR INVESTIGATION - WHICH COULD LEAD INTO REVOCATION OF YOUR PERMIT TO OPERATE IN THIS CITY AS PRESCRIBED IN UNIFORM BUILDING CODE, SECTION 303 (e).

Sincerely,

E. Guy Burdick - Fire Marshal

E. Guy Burdick

Rita Kent, Inspector

cc: City Attorney; City Police Department; City Code Compliance; City Building Department; County Environmental Health Department

200 EAST THIRD STREET, SAN BERNARDINO
CALIFORNIA 92410-4889
(909)384-5388 • FAX: (909)384-5470

PRIDE IN PROGRESS

DDAWIGL

CITY OF

San Bernardino

FIRE DEPARTMENT
WILLIAM L. WRIGHT
FIRE CHIEF

FIRE PREVENTION DIVISION

RECEIVED
SEP 16 1993
CITY OF SAN BERNARDINO
DEPARTMENT OF PLANNING &
BUILDING SERVICES

September 8, 1993

Thurman Dodd, Owner/Representative
Dodd & Son Auto Repair
862 Norman Road
San Bernardino, CA 92408

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Sincerely,

E. Guy Burdick - Fire Marshal

E. Guy Burdick

Rita Kent, Inspector

cc: City Attorney; City Police Department; City Code Compliance; City Building Department; County Environmental Health Department

200 EAST THIRD STREET, SAN BERNARDINO
CALIFORNIA 92410-4889
(909)384-5388 • FAX: (909)384-5470

PRIDE IN PROGRESS

CITY OF SAN BERNARDINO FIRE DEPARTMENT

MEMORANDUM

TO: Al Boughey, Director of Planning & Building Services

FROM: Guy Burdick, Fire Marshal

DATE: September 8, 1993

SUBJECT: Dodd's and Son Auto Repair - 878 East Norman Road

APPROVAL:

COPIES: City Attorney; City Police Department; City Code Compliance; City Building Department; County Environmental Health Department

---

On March 24, 1993, a fire and life safety inspection was conducted at Dodd's and Son Auto Repair at 878 East Norman Road.

Numerous fire and life safety violations were found during this inspection, which included structures appearing to be unsafe by reason of lack of maintenance, dilapidation, structural and electrical hazards, inadequate access roadways, outside storage violations, and major contamination of ground found by County Environmental.

Therefore, this Department issued orders to immediately stop use of all structures and cease all operations until all found violations were corrected.

On several occasions, fire personnel, code compliance and police officers have found that Mr. Dodd has re-opened for business to the public, using the yard and buildings.

This Department has received no documentation of the buildings meeting your approval nor has Mr. Dodd satisfied any fire or county health violations found. Mr. Dodd has exhausted all reasonable time frames for compliance of this City's fire and life safety code standards as ordered.

I have found this property's content and conditions are so situated as to endanger lives and property and is in IMMEDIATE NEED of safeguarding.

Therefore, as prescribed in Uniform Building Code, Section 303 (e), I request your assistance in possible revocation of existing Certificate of Occupancy or closure of this operation until all fire, building and health code violations are corrected or satisfied.

8. A 20-foot, unobstructed fire apparatus access road shall be provided from street entrance to opposite end of storage yard. Roadway's termination point shall be provided with an unobstructed area for turning of fire apparatus. Roadway's surface shall be able to support loads of fire apparatus. U.F.C. 10.207

9. Flammable or combustible liquids, waste liquids containing crude petroleum which has been dumped on ground shall be removed as directed by County Environmental Health rules and regulations. U.F.C. 79.113

10. All unused/abandoned compressed gas cylinders shall be removed from grounds. All compressed cylinder storage shall be in one central location when not in use. U.F.C. 11.203

Reinspection to note compliance of Items 5 through 10 will be conducted on or around May 1, 1993. If compliance is met prior to that date, please call this department immediately and an inspection will be arranged.

Please do not hesitate to call this department for any assistance that we can provide to help to help expedite your re-opening.

Sincerely,

E. Guy Burdick

E. Guy Burdick, Fire Marshal

cc: Bonnie Garcia - Building & Safety
Patrolman Auman - Police Department
Ronnie Bromberg - County Environmental
Frank Rhemrev - City Attorney

STRUCTURES (OFFICE/AUTO REPAIR & DOUBLE SIZED MOBIL HOME)

Structures appear to be unsafe by reason of lack of maintenance, dilapidation, structural and electrical hazards. Re-occupancy of these buildings will be contingent upon abatement of these deficiencies.

Therefore:

1. Abate all electrical and structural hazards which shall be identified by Building and Safety. Provide documentation that all repairs have met their approval prior to re-occupying. U.F.C. 2.201 and 85.104

2. Apply for Fire Department Permit to Operate Garage and Automobile Wrecking Yard. Permit will only be issued if all items noted in this correspondence have been completed or satisfactory arrangements have been made. U.F.C. 4.108 a.3. & g.1.

3. Operations inside buildings are subject to Fire Department issuing additional orders to provide additional fire preventative measures for intended use of building (i.e. fire extinguishers, exit signs). U.F.C. 4.102 (a)

4. Discontinue use of all structures until compliance of the aforementioned items is met. U.F.C. 2.204 (c)

OUTSIDE GROUNDS/STORAGE YARD

Exterior grounds are deemed an imminent fire hazard. Found were poor housekeeping, combustible/toxic products and containers not properly stored, and inadequate fire protection which includes access roadway and fire extinguishers.

5. COMMENCE IMMEDIATE compliance of the aforementioned items in order to provide a reasonable degree of fire safety to this and surrounding properties. U.F.C. 2.204 (a)

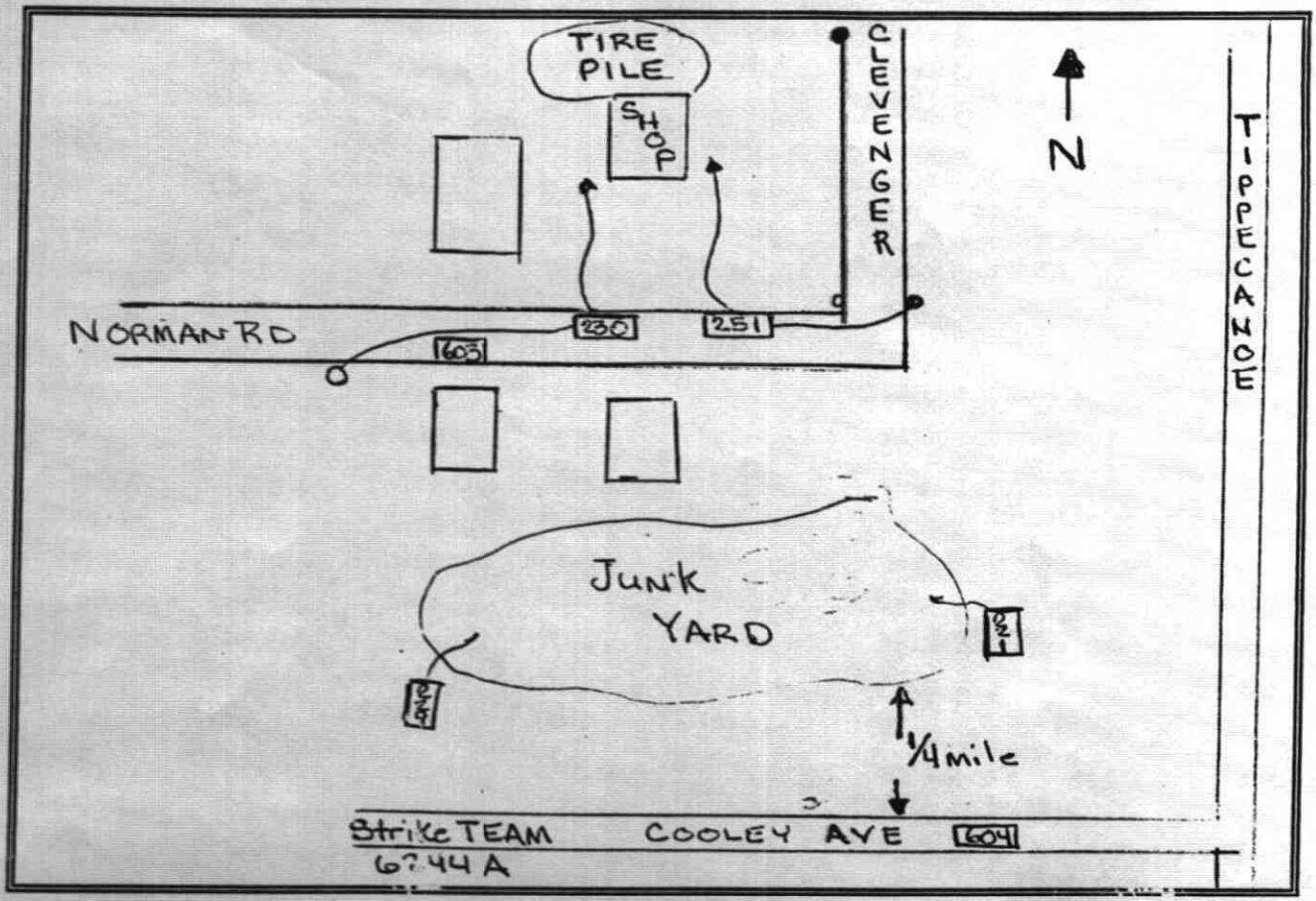
6. All storage, other than tires or hazardous-combustible items, shall be neat and orderly and located as not to constitute a hazard to any structure or adjoining property lines. All unnecessary storage not used in the operation shall be continually removed from property. U.F.C. 11.203 (b)

7. Tire storage shall be segregated to one area of yard, with piles no higher than six feet and no closer than ten feet from any structures or property lines. U.F.C. 11.203 (b)

San Bernardino City Fire Department Response and PIO Form				Incident Name CLEVENGER
Date 10/27/93	Inc Time 1403	Arrival 1413	Containment 1729	CFIRS S93-3047
Location NORMAN RD & CLEVENGER				Map Page 722

WT221
WT 231
E-230
WT 229
LL 251
603

604
600
601
STRIKE TEAM
6244A & STL 4030A



Condition B	Bldg type Shop Building Junk Yard	Occupancy
Situation FIRE GENERATED FROM THE BURNING OF TRASH. GOT INTO BRUSH, TIRES, JUNK CARS, ETC		
Exposure Houses to west and south	Rescue ∅	All clear

✓	Frequency	✓	Traffic Control	∅	Air Truck	✓	Police ID
✓	Name incident	✓	Edison	✓	Relief	∅	Red Cross
✓	Investigator	∅	Gas Company	✓	Food and Drink		

Area involved JUNK YARD	Size APPROX. 15 ACRES	Deaths/Injuries ∅	
Structure loss ?	Contents ∅	Cause PERSON BURNING TRASH	
Summary: FIRE WAS CAUSED BY SOMEONE BURNING TRASH DURING EXTREME WINDY CONDITIONS 40MPH. FIRE SPREAD QUICKLY TO THE SOUTH WITH ONE SPOT FIRE ON COOLEY AVE. STRIKE TEAM WAS BROUGHT IN FROM REDLANDS TO PROTECT COMMERCIAL STRUCTURES ON COOLEY AVE. OTHER UNITS ASSIGNED TO SUPPRESSION & OVERHAUL OF JUNK YARD. P/D HANDLED EVACUATION OF HOMES AND BUSINESSES ON COOLEY AVE. FIRE UNITS KEPT ON SCENE THROUGHOUT THE NIGHT. CLASS A		BC IZARD	Shift B

Annex # 351 3/91

October 4, 1993

Mr. Joe Lease, Inspector
City of San Bernardino Building and Safety
300 N. "D" Street
San Bernardino, Ca 92418

RECEIVED
OCT 07 1993
CITY OF SAN BERNARDINO
DEPARTMENT OF PLANNING &
BUILDING SERVICES

Re: 878 E. Norman Rd
San Bernardino - Parcel #280-201-16

Mr. Lease:

As per request, attached are the two notices we discussed. Thanks again for even considering assistance. So many agencies have been uncooperative. Due to my limited legal knowledge, I feel as if I'm going through a maze. Never the less Mr. Dodd can't effort legal assistance and he is so persist in maintaining the business he has had for over thirty years.

Please phone me to arrange the "walk through" we discussed to enable the correction required by you and your department. (corrections)

Environmental Health Services has so graceously extented their Certification of Compliance through October 18, 1993.

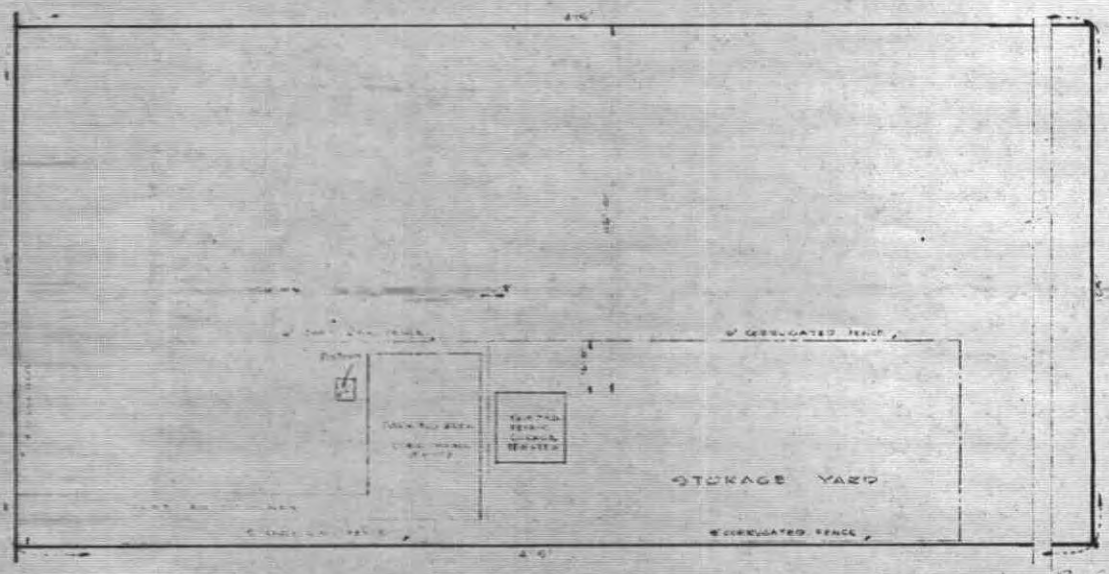
Thanks again and God Bless you.

Sincerely

Shaina Masters

Shaina S. Masters
909 885-4616

cc: Inspector Rita Kent, S.B Fire Dept.



PLOT PLAN

NORTH

62'
63'
16'
36'

LEGAL DESCRIPTION:
LOT "B" & W 65' OF LOT "A",
TRACT "2226"
CO OF SAN BERNARDINO

OWNER:
MRS NORMA DODD
1916 W 8TH ST.
SAN BERNARDINO, CALIF.
TU 5-5795

REDUCED PLANS
USE SCALE BELOW

PREPARED BY:
JOHN AUSTERMAN
2968 SIXTH ST.
SAN BERNARDINO, CALIF.
TU 5-6595
John C. Austerman

STRUCTURE		PLUMBING			HEATING & AIR COND.			ELECTRICAL	
SETBACK	7-6-76 am	LAVATORY		TOILET	GAS PIPE		COOLER		
EXCAVATION	7-6-76 am	BATHTUB		FL. DRAIN	FL. FURN.		REFRIG.		
FORMS	11-16-76 am	SHOWER		SEWER	WALL FURN.		A.C. UNIT		
FOUND. REINF		SINK		SEPTIC TANK	F.A.U.		HEAT PUMP		
REINF. STEEL		LAUND. TUB		SEEP. PIT	WATER HTR.		FIREPLACE		
GROUT		GARB. DISP.		LEACH LINE	BOILER		GAS CONV.		
BOND BEAM		DISH WASH.		GR. TRAP	INCINER		L.P.G.		
LUMBER GR.		URINAL		DRINK FTN.	VENT		NAT. GAS		
FRAMING	11-23-76 am				DRYER				
ROOFING									
VENTILATION									
BATH VENT.		GROUND PLUMB.			GAS (ROUGH)			GROUNDING	RANGE
UNDERFL. VENT		ROUGH PLUMB.			HEATING (ROUGH)			BONDING	DRYER
ACCESS HOLE		SEWER			WATER HEATER			ROUGH WIRING	
GAR. FIREPROOF		SEPTIC TANK			EVAP. COOLER			SERVICE COND. SIZE	
LATHING		SIZE			A.C. UNIT			SERVICE WIRE SIZE	
MESH		SEEP. PIT			REFRIGERATION			SERVICE GROUND SIZE	
PLASTER		SIZE			DUCT WORK			AMP	VOLTS
FIREPLACE		LEACH LINE			SPARK ARREST.			NO. BR. CIRCUITS	
INSULATION/SOUND		WATER SYS.			HEATING (FINAL)			TEMP.	
CERT. OCC.	9-23-77 am	FINAL INSP.			GAS (FINAL)			FINAL	

N.

11-23-76 8' BOND BEAM.

W E

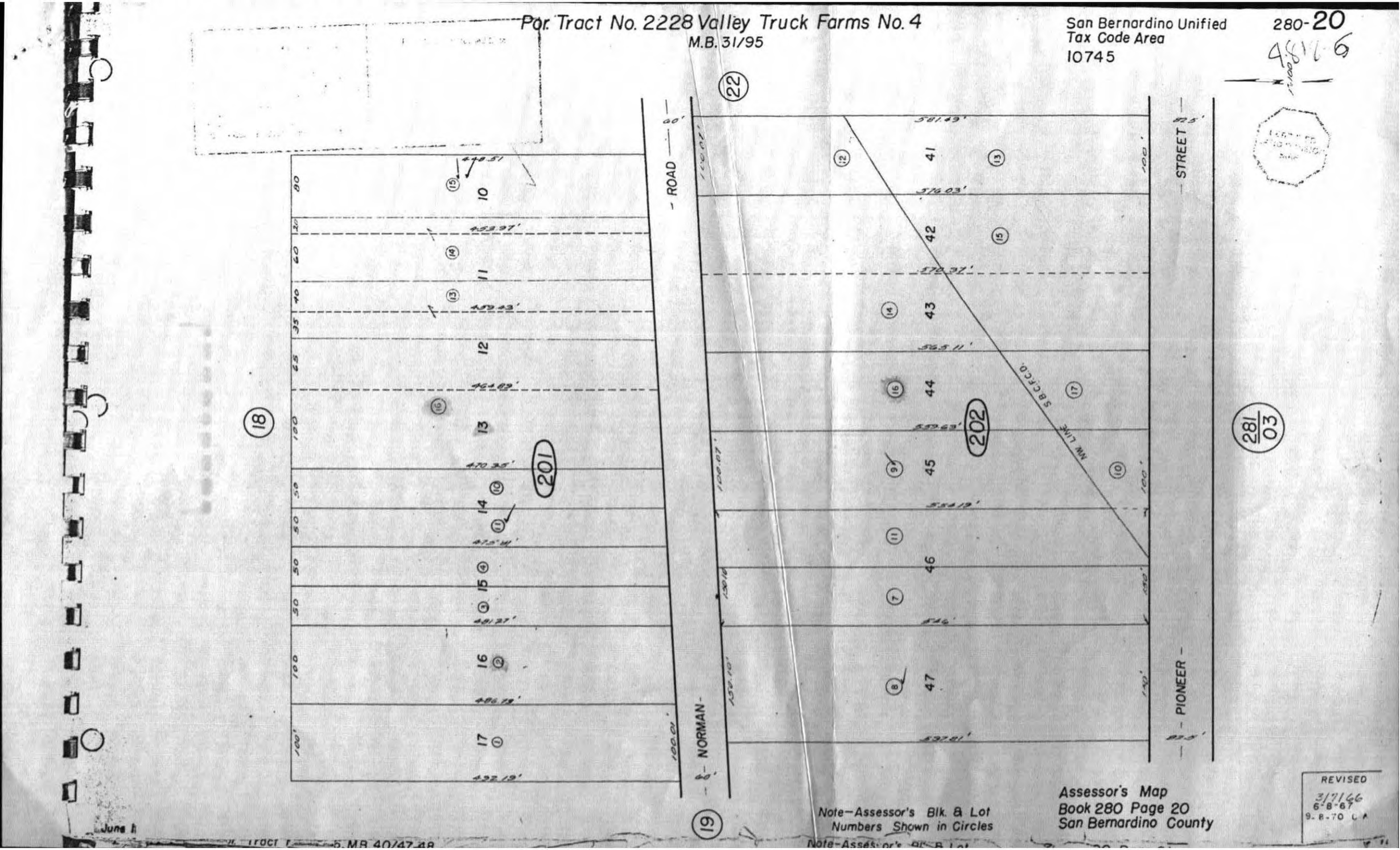
S

Wm Meeder - 3A

Por. Tract No. 2228 Valley Truck Farms No. 4
M.B. 31/95

San Bernardino Unified
Tax Code Area
10745

280-20



Note—Assessor's Blk. & Lot Numbers Shown in Circles

Assessor's Map
Book 280 Page 20
San Bernardino County

REVISED
3/7/66
6-8-67
9-8-70 L A

June 1

Tract [illegible] MB 40/47-48

DATE	6-25-70
PRICE	4500.
ADJ	4300.
DWN.	4000.
1st	3500.
2nd	
3rd	
TYE LN	2
SOURCE	
	51

RL CEILINGS & WALLS

WC
LAV
SHOWER

30

OFFICE

6.00

14

2 BR
+
SHOWER

21

GAR.

21

~~2.50~~ 3.00

4.00

ACTUAL CONST. COST $2500

236556 STORAGE #3520 4-29-70
269881 Repair Car Canopy #12,740. COMM 6-76

MISCELLANEOUS BUILDING RECORD

DISTRICT 11

PARCEL 280-201-16

SHEET ___ OF ___ SHEETS

ADDRESS Dodds Auto Working 24656 Norman Road

DESCRIPTION OF BUILDINGS

BLDG. NO.	STRUCTURE	SIZE	FOUND.	WALL & EXTERIOR	ROOF Type	ROOF Cover	FLOOR & INTERIOR DETAIL	SECOND STORY or LOFT	YEAR BUILT	Est. Total Life-Years
1	GARAGE	21 x 21	Conc	Cor. Steel	Flat	Cor. Steel	Conc. & UNF 2x4-16		1970	OR-30
2	OFFICE	14+30	conc	Frame + Stucco	Flat	Built-up	Conc Vinyl Tile Plaster		1972	OR-50
3	C/L Fence	400' @ 2.50							1972	OR 30

COMPUTATION

N.T.

APPRAISER-DATE		253		3-16	1971	246-2-16-			1972	262		1-19	1973	8-9-73 244			19
Bldg. No.	Area	Unit Cost	Cost	% Good	R. C. N. L. N. D.	Unit Cost	Cost	% Good	R. C. N. L. N. D.	Unit Cost	Cost	% Good	R. C. N. L. N. D.	Unit Cost	Cost	% Good	R. C. N. L. N. D.
1	441	2.50	1102	98	1080	2.50			1080		1102	89	980	3.00	1323	90	1191
2	420	-					PORCH		1600	6.00	2520	94	2368	6.00	2520	99	2495
3	400													2.00	800	96	768
TOTAL			1102	1769	1080			1969	2680				3348			1973	4454

APPRAISER-DATE		220	N.T.	11-13	1977				19				19				19
Bldg. No.	Area	Unit Cost	Cost	% Good	R. C. N. L. N. D.	Unit Cost	Cost	% Good	R. C. N. L. N. D.	Unit Cost	Cost	% Good	R. C. N. L. N. D.	Unit Cost	Cost	% Good	R. C. N. L. N. D.
1	441	4.00	1764	79	1394												
2	420	6.00	2520	97	2444												
3	400	2.50	1000	85	850												
TOTAL			5284	1977	4688												

City of San Bernardino Department of Planning & Building Services

Thurman Dodd.

BUILDING DIVISION
Phone: 384-5071

To: Owner

Address: 878 E. Norman Rd. Date 7/29/91

– CORRECTION NOTICE –

Permit No. [ ]

1- Cover all exposed wires in junction boxes with blank covers.
2- All wiring must be in approved junction boxes with wire nuts
3- Label all circuits at sub panel
4- replace missing dead front covers on main panel
5- elec. to trailers on lot next door has been removed.
6- Keep 3' clearance in front of panels

Released per Fire Dept

Buddy Gomez
Inspector

Inspector's Office Hours 3:45 - 4:30 p.m.

☒ Please Make Corrections and Call for Reinspection
☐ Please Make Corrections and Proceed.

BLSF-4.06 (12-90)

Talked to Guy Burdick
5/12/94 - no new
business negotiation.
He will look into the
matter further.
SP

Appendix I

Request for Records Search to the
South Coast Air Quality Management District and
Response Obtained from that Agency

SOUTH COAST AQMD

PUBLIC RECORDS REQUEST FORM

Request Information (For Office Use Only)

Date Stored

Time Stored

Public Record Request Nbr

Public Record Request Tracking Nbr
121239

Attention Requestor

Please fill out this form completely. You may include an attachment to the form, if necessary.

Requestor Information

Requestor Name
Shannon Castagno

Requestor Address
1521 Beaver Tan Court

Requestor Company
Environmental Support Services

Requestor City
Wake Forest

Requestor Email*
SHANNON@ENVIRONMENTALSUPPORTSERVICES.COM

Requestor State
NC

Requestor Phone

Requestor Zip Code

Type of Requested Record(s).

REQUESTED RECORDS. **Please be as specific as possible in describing the records you are seeking.** The more specific you are, the easier it will be to determine if such records exist in District files. Please contact the Public Records Unit if you need assistance in identifying District records.

Note: Permits to Operate, Equipment Lists, Notices of Violation, Notices to Comply, and Emissions Summaries are available through SCAQMD's FIND page at http://www3.aqmd.gov/webappl/fim/prog/search.aspx (you need to copy and paste this link into your browser).

Please Enter a description of the records you are requesting here:*
Applications (APPLS), Complaints, Permits to Operate (P/O), Site Inspection Reports (I/R), Equipment List Report (EQL), Emissions Summary, Notices of Violation (NOV), Notices to Comply (N/C)

Time Period of Documents Requested

Start Date*
1/1/1900

End Date*
5/2/2022

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

Facility ID (if known)

Address
695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road

Facility Name (if known)

City
San Bernardino

Zip Code
92408

Requested Application or Permit List. (if applicable)

Please click the Add Button to the right to enter a Application/Permit Number

Authorization Letter Attachment (0)

Authorization Letter

Note: Please use the above button for attaching an Authorization Letter from the facility to release confidential information for your public records request.

Supplemental Attachments (0)

Supplemental Documents

Note: Please use the above button for attaching additional documents that will help define your public records request.
Also Note: You MUST press the "Submit Your Public Records Request" button to complete this form otherwise the form will be automatically deleted!

INSTRUCTIONS FOR REQUESTING RECORDS

(California Public Records Act, Govt. Code Sections 6250-6276.48)

1. In order to expedite your request, please fill out the form completely. Requests may also be submitted by phone at (909) 396-3700, by facsimile to (909) 396-3330, or by email to PublicRecordsRequests@aqmd.gov.

2. Requests must be for records prepared, owned, used, or retained by the District (Gov. Code Sec. 6252(e)). Requests should be for clearly identifiable records. The District is not required to create a new record in response to a request. The District will assist the requestor in making a request that describes reasonably identifiable records (Gov. Code Sec. 6253.1). Documents will not be provided if disclosure would infringe upon a copyright, trade secret, or is otherwise exempt in accordance with state law.

3. A search for facility records can only be conducted by one or all of the following:

-- a) Facility Name, Address, or Identification Number

-- b) Facility Application Number, or Permit to Operate Number; or

-- c) Facility Notice of Violation/Notice to Comply Number.

4. You will be notified within ten (10) days whether your request seeks copies of disclosable public records prepared, owned, used, or retained by this agency. In some cases, the District may need an additional 14 days to respond. If so, you will be notified in writing. You will also be provided an estimated date of when the records will be made available.

5. Communications regarding your request, and any records, will be provided by email, unless specified otherwise.

6. If the search for records finds the records voluminous, you will be notified of the approximate number of pages and/or length of time it will take to process your request.

7. If the records you requested have been marked confidential by the source of the record, you will be notified and given the option of continuing with the District's Trade Secret process.

8. If your request is to review records, rather than receive copies, the District will notify you once the records are gathered, and arrangements will be made for your review.

9. The charge for the direct cost of duplication is as follows: Paper Copies, $0.15/page each over 10 pages (first 10 pages are free); Copied CD's or flash drives, no charge; and Copied Audio Tapes, $5.00 each. After a preliminary estimate, advance payment may be required.

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SOUTH COAST AQMD

PUBLIC RECORDS REQUEST FORM

Request Information (For Office Use Only)

Date Stored

Time Stored

Public Record Request Nbr

Public Record Request Tracking Nbr
121240

Attention Requestor

Please fill out this form completely. You may include an attachment to the form, if necessary.

Requestor Information

Requestor Name
Shannon Castagno

Requestor Address
1521 Beaver Tan Court

Requestor Company
Environmental Support Services

Requestor City
Wake Forest

Requestor Email*
SHANNON@ENVIRONMENTALSUPPORTSERVICES.COM

Requestor State
NC

Requestor Phone

Requestor Zip Code

Type of Requested Record(s).

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Time Period of Documents Requested

Start Date*
1/1/1900

End Date*
5/2/2022

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

Facility ID (if known)

Address
24512 Pioneer Avenue

Facility Name (if known)

City
San Bernardino

Zip Code

Requested Application or Permit List. (if applicable)

Please click the Add Button to the right to enter a Application/Permit Number

Authorization Letter Attachment (0)

Authorization Letter

Note: Please use the above button for attaching an Authorization Letter from the facility to release confidential information for your public records request.

Supplemental Attachments (0)

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SOUTH COAST AQMD

PUBLIC RECORDS REQUEST FORM

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Date Stored

Time Stored

Public Record Request Nbr

Public Record Request Tracking Nbr
121241

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Shannon Castagno

Requestor Address
1521 Beaver Tan Court

Requestor Company
Environmental Support Services

Requestor City
Wake Forest

Requestor Email*
SHANNON@ENVIRONMENTALSUPPORTSERVICES.COM

Requestor State
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Requestor Phone

Requestor Zip Code

Type of Requested Record(s).

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Time Period of Documents Requested

Start Date*
1/1/1900

End Date*
5/2/2022

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

Facility ID (if known)

Address
788 East Orange Show Road

Facility Name (if known)

City
San Bernardino

Zip Code

Requested Application or Permit List. (if applicable)

Please click the Add Button to the right to enter a Application/Permit Number

Authorization Letter Attachment (0)

Authorization Letter

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Note: If you have questions pertaining to the submittal of a Public Records Act request, you may contact the Public Records Unit, (909) 396-3700, Tuesday through Friday, 7:00 a.m. to 5:30 p.m. Our Fax number is (909) 396-3330. Our email address is PublicRecordsRequests@aqmd.gov.

shannon environmentalsupportservices.com

From: mcard@aqmd.gov
Sent: Thursday, May 5, 2022 3:02 PM
To: shannon environmentalsupportservices.com
Cc: ob_pr_support_docs@aqmd.gov
Subject: SCAQMD Public Records Request# 1411784, -- Completion Letter
Attachments: ATT00001.tif



Shannon Castagno

Environmental Support Services

1521 Beaver Tan

Wake Forest, Nc 27587

Ref: Request for Records; Control No. **1411784**, Received 5/3/2022

RE: APPL'S, P/O'S, EQL'S, NOV'S, N/C'S, COMPLAINTS, I/R'S & EMISSION SUM FOR 695, 707, 715, 755, 787, 807, 823 & 867 E NORMAN RD, SAN BERNARDINO, CA, FROM 1/1/1900-5/2/2022.

After a thorough search of this agency's records:

NO REQUESTED RECORDS WERE FOUND FOR THE ABOVE REFERENCED FACILITY OR FACILITY SITE.

Should you have any questions or need additional information, please do not hesitate to contact me at (909) 396-3700, Tuesday through Friday, between the hours of **8:00 a.m.** and **4:30 p.m.**

Sincerely,

Michelle Card

For Colleen Paine

Public Records Coordinator

Information Management

shannon environmentalsupportservices.com

From: mcard@aqmd.gov
Sent: Thursday, May 5, 2022 3:03 PM
To: shannon environmentalsupportservices.com
Cc: ob_pr_support_docs@aqmd.gov
Subject: SCAQMD Public Records Request# 1411785, -- Completion Letter
Attachments: ATT00001.tif



Shannon Castagno

Environmental Support Services

1521 Beaver Tan

Wake Forest, Nc 27587

Ref: Request for Records; Control No. **1411785**, Received 5/3/2022

RE: APPL'S, P/O'S, EQL'S, NOV'S, N/C'S, COMPLAINTS, I/R'S & EMISSION SUM FOR 24512 PIONEER AVE, SAN BERNARDINO, CA,

After a thorough search of this agency's records:

NO REQUESTED RECORDS WERE FOUND FOR THE ABOVE REFERENCED FACILITY OR FACILITY SITE.

Should you have any questions or need additional information, please do not hesitate to contact me at (909) 396-3700, Tuesday through Friday, between the hours of **8:00 a.m.** and **4:30 p.m.**

Sincerely,

Michelle Card

For Colleen Paine

Public Records Coordinator

Information Management

shannon environmentalsupportservices.com

From: mcard@aqmd.gov
Sent: Thursday, May 5, 2022 3:05 PM
To: shannon environmentalsupportservices.com
Cc: ob_pr_support_docs@aqmd.gov
Subject: SCAQMD Public Records Request# 1411786, -- Completion Letter



Shannon Castagno

Environmental Support Services

1521 Beaver Tan

Wake Forest, Nc 27587

Ref: Request for Records; Control No. **1411786**, Received 5/3/2022

RE: APPL'S, P/O'S, EQL'S, NOV'S, N/C'S, COMPLAINTS, I/R'S & EMISSION SUM FOR 788 E ORANGE SHOW RD, SAN BERNARDINO, CA, FROM 1/1/1900-5/2/2022.

After a thorough search of this agency's records:

NO REQUESTED RECORDS WERE FOUND FOR THE ABOVE REFERENCED FACILITY OR FACILITY SITE.

Should you have any questions or need additional information, please do not hesitate to contact me at (909) 396-3700, Tuesday through Friday, between the hours of **8:00 a.m.** and **4:30 p.m.**

Sincerely,

Michelle Card

For Colleen Paine

Public Records Coordinator

Information Management

Appendix J

Request for Records Search to the
Regional Water Quality Control Board – Santa Ana Region and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 2, 2022

Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Ste 500
Riverside, CA 92501

Attention: LUST/WIP/SLIC/Site Mitigation Divisions

Dear Public Records Request,

Please check for any files/information on the following site:

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and
788 East Orange Show Road
APNs 028019202, 028019220, 028019219, 028019206, 028019207, 028020207, 028020211, 028020209, 028019213, 028019210, 028020208, 028019209, 028019208, 028019205, 028019204, 028019212 & 028019211
San Bernardino, CA 92408
(See Attached Map)

I would like to set up an appointment to review this file **as soon as possible**. Anything you can do to expedite this request would be greatly appreciated. Please call me at (949) 429-3564. Thanks!

Sincerely,
Environmental Support Services

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

shannon environmentalsupportservices.com

From: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Sent: Thursday, May 5, 2022 1:04 PM
To: shannon environmentalsupportservices.com
Subject: RE: New Public Records Request

Good morning,

After careful review of our records, we show we have no files for the following site(s):
695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road
24512 Pioneer Avenue
788 East Orange Show Road

Unfortunately, we do not use APN numbers or cross streets to maintain our files. We only use facility names and/or physical address numbers to locate files. If you can provide a numerical address or facility name, we can carry out your request.

If we can be of further assistance, please do not hesitate to contact us again.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

From: shannon environmentalsupportservices.com <shannon@environmentalsupportservices.com>
Sent: Monday, May 2, 2022 9:07 AM
To: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Subject: New Public Records Request

EXTERNAL:

Est. 1988

Environmental Support Services
Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

May 2, 2022

Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Ste 500
Riverside, CA 92501

Attention: LUST/WIP/SLIC/Site Mitigation Divisions

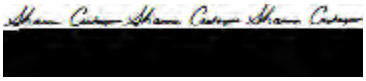
Dear Public Records Request,

Please check for any files/information on the following site:

Site: 695, 707, 715, 755, 787, 807, 823 & 867 East Norman Road, 24512 Pioneer Avenue and 788 East Orange Show Road

I would like to set up an appointment to review this file **as soon as possible**. Anything you can do to expedite this request would be greatly appreciated. Please call me at
(949) 429-3564. Thanks!

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

August 24, 2022

Project Name: San Bernardino

Geosyntec Consultants
2355 Northside Drive, Suite 250
San Diego, CA 92108

Attention: Jackie Hyman

Dear Ms. Hyman

Attached is the Environmental (Hazardous/Toxic Waste) Records Search Summary of the 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road ("San Bernardino") site located in San Bernardino, California. Environmental Support Services ("**ESS**") received the request on August 18, 2022 (See Appendix A). Should you have any questions regarding the summary, please call.

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Records Search Summary

Company:	Geosyntec Consultants
Project Name:	San Bernardino
Attention:	Jackie Hyman
Street Address of Property:	24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road San Bernardino, CA 92408 APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222

San Bernardino County Fire Department

E-mailed request: 8-18-22, Contact: Public Records Section

ESS submitted a request for a records search concerning the San Bernardino site to the Public Records Section, with the San Bernardino County Fire Department (See Appendix B). **ESS** requested information concerning the utilization, manufacture, storage and/or discharge of hazardous materials/waste, and any information concerning previous or on-going site investigations/remediations pertaining to hazardous materials/waste. Christina Rivera, with that department informed **ESS** on August 22, 2022 that her department had no records for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix B).

Department of Toxic Substances Control (DTSC) – Cypress Office

E-mailed request: 8-18-22, Contact: Julie Chandler/Jone Barrio

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that Ms. Chandler/Ms. Barrio, with the DTSC, check the file room records for any files/information concerning 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix C). Ms. Barrio, with that department informed **ESS** on August 23, 2022 that her department had no files/information concerning that site (See Appendix C).

Department of Toxic Substances Control (DTSC) – Chatsworth Office

E-mailed request: 8-18-22, Contact: Robert Hardison

Previous contacts with the DTSC have disclosed that this office only collects and stores information (such as treatment, storage and disposal of hazardous waste) concerning sites which have existing businesses, industries, etc. present. **ESS** requested that Mr. Castillo/Mr. Hardison, with the DTSC, check the file room records for any files/information concerning 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix D). Mr. Hardison, with that department informed **ESS** on August 22, 2022 that his department had no files/information concerning that site (See Appendix D).

Cal Fire - Office of the State Fire Marshal

On-line request: 8-18-22, Contact: Pubic Records Request

ESS requested that the Public Records Section, with Cal Fire - Office of the State Fire Marshal, check their records concerning the storage of hazardous materials/waste, pipelines and underground storage tanks with regards to the following: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix E) As of August 24, 2022, the Public Records Section had not completed **ESS'** request for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA. Should any information concerning the site surface, **ESS** will immediately forward it to Ms. Hyman at the Geosyntec Consultants office.

City of San Bernardino Fire Department

On-line request: 8-18-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of San Bernardino Fire Department, check their records concerning the storage of hazardous materials/waste and underground storage tanks with regards to the following: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix F). Sylvia Bautista, with that department informed **ESS** August 19, 2022 that the lead agency for sites in the City of San Bernardino would be the San Bernardino County Fire Department (See above) (See Appendix F).

City of San Bernardino Department of Public Works

On-line request: 8-18-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of San Bernardino Public Works Department, check their records for any information concerning industrial waste discharge permits or violations for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix G). As of August 24, 2022, the Public Records Section had not completed **ESS'** request for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA. Should any information concerning the site surface, **ESS** will immediately forward it to Ms. Hyman at the Geosyntec Consultants office.

City of San Bernardino Building Department

On-line request: 8-18-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the City of San Bernardino Building Department, provide the building records (all permits and certificates of occupancy) for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix H). As of August 24, 2022, the Public Records Section had not completed **ESS'** request for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA. Should any information concerning the site surface, **ESS** will immediately forward it to Ms. Hyman at the Geosyntec Consultants office.

South Coast Air Quality Management District (SCAQMD)

On-line request: 8-18-22, Contact: Public Records Section

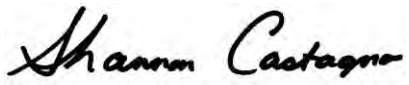
ESS submitted a search request concerning active, inactive and sold files concerning 695, 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA to the Public Records Section at the SCAQMD (See Appendix I). As of August 24, 2022, the Public Records Section had not completed **ESS'** request for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA. Should any information concerning the site surface, **ESS** will immediately forward it to Ms. Hyman at the Geosyntec Consultants office.

Regional Water Quality Control Board (RWQCB) – Santa Ana Region

E-mailed request: 8-18-22, Contact: Public Records Section

ESS requested that the Public Records Section, with the RWQCB, provide the files for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA (See Appendix J). As of August 24, 2022, the Public Records Section had not completed **ESS'** request for 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA. Should any information concerning the site surface, **ESS** will immediately forward it to Ms. Hyman at the Geosyntec Consultants office.

Records Search completed by:



Shannon Castagno
Project Manager
Environmental Support Services

The information provided in this report was obtained by a comprehensive examination of public records, public information and public servant communications. The degree of care performed by **ESS** is equivalent to that exercised by environmental companies performing similar records searches.

Appendix A

Environmental (Hazardous/Toxic Waste) Records Search
Order Form

shannon environmentalsupportservices.com

From: Jackie Hyman <JHyman@Geosyntec.com>
Sent: Thursday, August 18, 2022 5:39 PM
To: shannon environmentalsupportservices.com
Subject: FW: Phase I Record Request - San Bernardino
Attachments: San Bernardino.pdf

See attached map.

Jackie Hyman
Professional
Geosyntec Consultants, Inc.
2355 Northside Drive, Suite 250
San Diego, CA 92108
Office: 858.674.6559
Mobile: 626.609.9525

GEOSYNTEC | SIREM | SAVRON

Follow Us – LinkedIn | Twitter | Facebook | YouTube

From: Jackie Hyman
Sent: Thursday, August 18, 2022 2:29 PM
To: shannon environmentalsupportservices.com <shannon@environmentalsupportservices.com>
Subject: Phase I Record Request - San Bernardino

Hi Shannon,

Can you please submit requests for the properties at 24432 Pioneer Avenue and 648, 652, 668, 684, 706 East Orange Show Road, San Bernardino? See attached map for the parcel numbers and addresses. I know we are unlikely to have all the responses but can you please provide the report end of next week?

Project SC1256

Thanks,

Jackie Hyman
Professional
Geosyntec Consultants, Inc.
2355 Northside Drive, Suite 250
San Diego, CA 92108
Office: 858.674.6559
Mobile: 626.609.9525

GEOSYNTEC | SIREM | SAVRON

Follow Us – LinkedIn | Twitter | Facebook | YouTube


APN: 028-017-204
APN: 028-017-220
24432 Pioneer Ave.
652 E. Orange Show Rd.
668 E. Orange Show Rd.
APN: 028-019-216
684 E. Orange Show Rd.
648 E. Orange Show Rd.
706 E. Orange Show Rd.
APN: 028-017-211
APN: 028-017-217
APN: 028-017-222
APN: 028-017-221
APN: 028-017-201
Lena Rd
E Orange Show Rd
E Norman Rd

Appendix B

Request for Records Search to the
San Bernardino County Fire Department and
Response Obtained from that Agency

CUPA
San Bernardino County Fire Protection District • Hazardous Materials Division
620 S. E St., San Bernardino, CA 92415-0153 • (909) 386-8468 FAX (909) 386-8460
hazmatrecords@sbcfire.org

REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT

The main focus of a REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT is to determine whether there exists in San Bernardino County Fire Protection District (SBCFPD) any record relating to contamination or reports of spills at a particular site. An Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report should reveal whether there are any facilities at the site that are subject to current or past regulatory activity by SBCFPD, such as underground storage tanks, hazardous material handlers, hazardous waste generators, and CalARP facilities, as well as any reports of spills, incidents, complaints, or cleanup activity, which can be a useful tool in providing a history of compliance or non-compliance.

Once SBCFPD has completed its records search, an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report will be prepared and issued. Such report will detail all SBCFPD records associated with a particular site by type, date, location, and status (where applicable). All files identified in an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report can be made available for copies and/or review upon request.

If the completed records search reveals no SBCFPD record of hazardous material activity at the site, an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report will be issued, noting that "no records" were identified.

Please provide a specific site address or location description. If a situs address does not exist or cannot be found, list another type of location identifier such as Assessor Parcel Number (preferable), cross streets or intersections (e.g., NWC 5th Ave. & Main St.), and/or legal description. If possible, please attach a map to this request form.

SITE INFORMATION		
Property Owner or Business Name	Location (Site Address and/or Assessor Parcel No.) 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road	City/Community San Bernardino

Please provide your name, the company you represent, and contact information below.

REQUESTOR INFORMATION				
NAME Shannon Castagno	TITLE (*If individual, leave blank*) Project Manager	COMPANY (*If individual, leave blank*) Environmental Support Services		
MAILING ADDRESS 1521 Beaver Tan Ct.	CITY Wake Forest		STATE NC	ZIP CODE 27587
TELEPHONE 949-429-3564	FAX	EMAIL ADDRESS Shannon@EnvironmentalSupportServices.com		

So that we may provide better service, please check one or more of the boxes below which best describe how the findings of the Env. Audit Phase 1 Certified Hazardous Materials Records Search will be used and/or your relationship to the property in question.

PURPOSE OR RELATIONSHIP TO PROPERTY	
[X] 1. Phase I site assessment or due diligence **AT THE SITE**	[ ] 7. Owner or operator of the facility or property
[ ] 2. Environmental professional involved with remediation **AT THE SITE**	[ ] 8. Potential buyer
[ ] 3. Phase I site assessment or due diligence **NEARBY**	[ ] 9. Real Estate Agent, Lender, Appraiser
[ ] 4. Environmental professional involved with remediation **NEARBY**	[ ] 10. Pending escrow
[ ] 5. Proposed School Site (1/4 mi. search for AHM)	[ ] 11. Proposed redevelopment
[ ] 6. Proposed Drinking Water Well	[ ] 12. Legal or other reason: _____

AGENCY USE	
Phase 1 Certified Record Search Finding Report issued: ___/___/___	Reference No:
Phase 1 Certified "No Record" Finding Report issued: ___/___/___	Amount Paid:
	Receipt No.:
	Date:

** IMPORTANT –THIS PAGE MUST BE SIGNED PRIOR TO SUBMITTAL **

DISCLAIMER: While all attempts are made to provide accurate, current, and reliable information, San Bernardino County Fire Protection District *(further referred to as SBDFPD)* recognizes the possibility of human error. Therefore, SBCFPD, its officers, employees, agents and volunteers, make no representations as to the accuracy, completeness or suitability of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report and provides an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report "as is," with no warranties, express or implied, including the implied warranty of fitness for a particular purpose. In no event shall SBCFPD be liable for any damages of any nature whatsoever, arising out of the issuance of a Certified Hazardous Materials Records Search Finding Report. SBCFPD therefore assumes no liability for damages incurred directly or indirectly as a result of any errors, omissions or discrepancies in a Certified Hazardous Materials Records Search Finding Report.

RELEASE AND INDEMNIFICATION: In consideration for the issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, I hereby release and forever discharge SBCFPD, its officers, employees, agents and volunteers from any and all claims, actions, losses, damages and/or liability in connection with SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, including, but not limited to, claims that may arise due to the active or passive negligence of SBCFPD, its officers, employees, agents and volunteers.

I am familiar with the provisions of California Civil Code Section 1542, which provides as follows:

"A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

I hereby expressly waive any and all rights that I may have there under. I understand and acknowledge the significance and consequence of this specific waiver of California Civil Code Section 1542 and assume full responsibility for any injuries, damages, losses or liabilities that I may hereafter discover as possibly resulting from SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report.

In further consideration for SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, I hereby agree, for myself, my heirs, administrators, executors and assigns, that I shall indemnify, defend (with counsel approved by County) and hold harmless SBCFPD, its officers, employees, agents and volunteers from any and all claims, demands, actions or suits arising out of or in connection with SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report brought by any third party.

I have read the above terms and conditions, including the paragraphs entitled "DISCLAIMER" and "RELEASE AND INDEMNIFICATION", and by my signature below, I affirm that I understand these terms and conditions and accept them as part of my REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT.

I hereby request an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report for the location described on Page 1 of this application.

- ❑ **I am including payment of the initial fee of $136.00, for the first hour of research, by check or money order, payable to San Bernardino County Fire Protection District, or by credit card payment taken over the phone. I understand that research exceeding one hour will be billed at the rate of $136.00 for each additional hour spent by SBCFPD in completing this request.**
- ❑ **I have faxed or emailed this request and will forward payment along with the original request form within 48 hours.**

REQUESTOR'S SIGNATURE	
SIGNATURE OF REQUESTOR Shannon Castagno	DATE 8/18/22

Rev. 05/06/2020

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

620 South "E" Street ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Division
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Michael A. Horton
Fire Marshal/Deputy Fire Warden

August 22, 2022

22081802 San Bernardino RAL Environ Support Svcs

ENVIRONMENTAL SUPPORT SERVICES
1521 BEAVER TAN COURT
WAKE FOREST, NC 27587

ATTENTION: **SHANNON CASTAGNO**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
24432 PIONEER AVENUE AND 652, 668, 684, 648, 706 EAST ORANGE SHOW ROAD, SAN BERNARDINO, CALIFORNIA
APN #S: 0280-172-04-0000, 0280-172-20-0000, 0280-192-16-0000, 0280-172-11-0000, 0280-172-17-0000, 0280-172-22-0000, 0280-172-21-0000, 0280-172-01-0000

This is to confirm that the OFM Hazardous Materials Division (HMD) has searched its records for any file(s) pertaining to the subject property, as described in your request, and finds that no records exist for the above site description(s).

Records maintained by OFM-HMD date back to mid-1980's. Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

Christina Rivera

Christina Rivera
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

BOARD OF DIRECTORS

Col. Paul Cook (Ret.) — First District
Janice Rutherford — Second District
Dawn Rowe — Vice Chair, Third District
Curt Hagman — Chairman, Fourth District
Joe Baca Jr. — Fifth District

Leonard X. Hernandez
Chief Executive Officer

Appendix C

Request for Records Search to the
Department of Toxic Substances Control - Cypress Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

August 18, 2022

Dept of Toxic Substances Control
Cypress Office
5796 Corporate Avenue
Cypress, CA 90630

Attention: Julie Johnson/Jone Barrio

Dear Julie/Jone,

Please check for any files/information on the following site:

Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)

Sincerely,
Environmental Support Services

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Acting Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

August 23, 2022

Shannon Castagno
Enviro Support Services
shannon@environmentalsupportservices.com

PR4-081822-01

4030**, 4040, -4060 (even) Sorrento Valley Blvd., San Diego** & 24432 Pioneer Ave., & 648, 652, **668, 684** & 706 **E Orange Show Rd., San Bernardino** & 028-017-201, -204, -211, 216, -217, -220, -221 & -222**: Yes, for HWTS (Bold & underline are yes for HWTS).**

Dear Requestor:

On Aug 18, 2022, the Department of Toxic Substances Control (DTSC) received your email of Aug 18, 2022, requesting records under the Public Records Act. After a thorough review of our files, *no site records* were found pertaining to the sites/facilities referenced above.

DTSC Generator information: DTSC Cypress Office does not house Generator/**HWTS** Records.

DTSC's Hazardous Waste Tracking System (**HWTS**) may have records that pertain to this request. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov
. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions, would like further information regarding your request, please contact me, via email at jone.barrio@dtsc.ca.gov

Sincerely,
Jone Barrio
Jone Barrio - Regional Records Coordinator

Printed on Recycled Paper

Appendix D

Request for Records Search to the
Department of Toxic Substances Control - Chatsworth Office and
Response Obtained from that Agency

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

August 18, 2022

Dept of Toxic Substances Control
Chatsworth Office
9211 Oakdale Avenue
Chatsworth, CA

Attention: Glenn Castillo/Robert Hardison

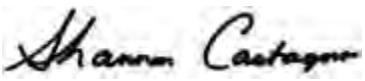
Dear Glenn/Robert,

Please check for any files/information on the following site:

Please check for any files/information on the following site:

Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)

Sincerely,
Environmental Support Services



Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
9211 Oakdale Avenue
Chatsworth, California 91311

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

August 22, 2022

Shannon Castagno
Environmental Support Services
Shannon@EnvironmentalSupportServices.com

Public Records Request Number: PR3-081822-08

Locations: 24432 Pioneer Ave., San Bernardino, CA 92408
648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA 92408

APNs: 28-017-201, -204, -211, -216, -217, -220, -221 & -222

Dear Ms. Castagno:

On August 18, 2022, the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

However, DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to **684 East Orange Show Road**. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

Many of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSC's data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 818-717-6521 or via email at ChatsworthFileRoom@dtsc.ca.gov.

Sincerely,

Robert Hardison

Robert Hardison
Records Mgmt. Asst. Coordinator

Appendix E

Request for Records Search to the
Cal Fire – Office of the State Fire Marshal

shannon environmentalsupportservices.com

From: CALFIRE PRA Records Center <calfire@govqa.us>
Sent: Thursday, August 18, 2022 6:49 PM
To: shannon environmentalsupportservices.com
Subject: Public Records Request :: R005043-081822

RE: PUBLIC RECORDS REQUEST of 8/18/2022, Reference # R005043-081822

Dear Shannon Castagno,
Thank you for your interest in public records of CAL FIRE. Your request has been received and is being processed in accordance with the California Public Records Act, Government Code section 6250 et seq. Your request was received on August 18, 2022 and given the reference number R005043-081822 for tracking purposes.

Records Requested: Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA, APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222, (See Attached Map). ESS requests the following information concerning the subject site which your agency may have on file: 1. utilization, manufacture, storage, or discharge of hazardous materials/waste. 2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste. 3. hazardous materials disclosures concerning the site. 4. pipelines. 5. information regarding underground storage tank present or previously found at the site. 6. Reportable Spills, Releases, Notices of Violations (NOVs) and any Environmental Reportable Issues.

Your request will be forwarded to the relevant CAL FIRE department(s) to locate the information you seek and to determine the volume and any costs that may be associated with satisfying your request. You will be contacted about the availability and/or provided with copies of the records in question. PLEASE NOTE: The California Public Records Act does not require a governmental body to create new information, to do legal research, or to answer questions.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed.

CAL FIRE

To monitor the progress or update this request please log into CAL FIRE Records Center

Appendix F

Request for Records Search to the
City of San Bernardino Fire Department and
Response Obtained from that Agency

shannon environmentalsupportservices.com

From: San Bernardino Help Line <sanbernardino@user.govoutreach.com>
Sent: Thursday, August 18, 2022 6:44 PM
To: shannon environmentalsupportservices.com
Subject: CRM: New Request # 6446066 [3436353437356664]

---If replying by email, enter your reply above this line---

Dear Shannon,

We appreciate the opportunity to assist you and assure you a positive experience with us.

The Problem you submitted was:

Request type: Public Records Request
Location: 652 ORANGE SHOW RD
Description: Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706
East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)
ESS requests the following information concerning the subject addresses which the fire department may have on file:
1. utilization, manufacture, storage, or discharge of hazardous materials/waste.
2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste.
3. hazardous materials disclosures concerning the site.
4. information regarding underground storage tank present or previously found at the site.

You may add additional information to this request by:
1) Replying to this email,
2) Signing into the system, or
3) Going to: <http://user.GovOutreach.com/sanbernardino/case.php?id=6446066&access=3436353437356664>

Thank you,
Office of the City Manager

shannon environmentalsupportservices.com

From:	Sylvia Bautista <Bautista_Sy@sbcity.org>
Sent:	Friday, August 19, 2022 10:41 AM
To:	shannon environmentalsupportservices.com
Cc:	Courtney Bowen; Diane Grant; Dianna Garcia; Genoveva Rocha; Perla Lopez; Telicia Lopez
Subject:	CPRA Response to 6446066 Caspagno, Shannon(2) 08-18-22

Dear Sir/Madam,

This letter is in response to your request for public records received on August 18, 2022, by the City of San Bernardino ("City") pursuant to the California Public Records Act, Government Code § 6250 *et seq.* ("the Act"). You asked for the following records and information:

Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706
East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)

ESS requests the following information concerning the subject addresses which the fire department may have on file:

1. utilization, manufacture, storage, or discharge of hazardous materials/waste.
2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste.
3. hazardous materials disclosures concerning the site.
4. information regarding underground storage tank present or previously found at the site.

The City has received your request for documents pertaining to the above address. Please note any records pertaining to Fire or Hazard Material Removal or Fire Violations, you can contact the San Bernardino County Fire Department at: 620 South "E" Street, San Bernardino, CA 92415 the website https://sbcfire.org/publicrecords/ The phone number is (909) 386-8401. Please note this is including Underground Storage Tanks (UST). Please be advised that the city will not have any of the Items 1-4 pertaining to the request provided.

Respectfully,

Sylvia Bautista
Records Management Specialist
City of San Bernardino – Office of the City Clerk
Office: 201 North "E" Street
Mail: 290 North "D" Street
San Bernardino, California 92401
Direct: 909.384.5002 | x3215
Bautista_sy@sbcity.org | www.sbcity.org

Appendix G

Request for Records Search to the
City of San Bernardino Public Works Department

shannon environmentalsupportservices.com

From: San Bernardino Help Line <sanbernardino@user.govoutreach.com>
Sent: Thursday, August 18, 2022 6:42 PM
To: shannon environmentalsupportservices.com
Subject: CRM: New Request # 6446063 [3264336662306561]

---If replying by email, enter your reply above this line---

Dear Shannon,

We appreciate the opportunity to assist you and assure you a positive experience with us.

The Problem you submitted was:

Request type: Public Records Request
Location: 652 ORANGE SHOW RD
Description: Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706
East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)
ESS requests the following information concerning the subject addresses which the public works department may have on file:

1. copies of applications and permits for industrial waste discharge; and
2. copies of any and all violations concerning industrial waste discharge.

You may add additional information to this request by:
1) Replying to this email,
2) Signing into the system, or
3) Going to: <http://user.GovOutreach.com/sanbernardino/case.php?id=6446063&access=3264336662306561>

Thank you,
Office of the City Manager

Appendix H

Request for Records Search to the
City of San Bernardino Building Department

shannon environmentalsupportservices.com

From: San Bernardino Help Line <sanbernardino@user.govoutreach.com>
Sent: Thursday, August 18, 2022 6:46 PM
To: shannon environmentalsupportservices.com
Subject: CRM: New Request # 6446070 [3238643865613335]

---If replying by email, enter your reply above this line---

Dear Shannon,

We appreciate the opportunity to assist you and assure you a positive experience with us.

The Problem you submitted was:

Request type: Public Records Request
Location: 652 ORANGE SHOW RD
Description: Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706
East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)
I hereby request copies of all building permits and certificates of occupancy for the above addresses.

You may add additional information to this request by:
1) Replying to this email,
2) Signing into the system, or
3) Going to: <http://user.GovOutreach.com/sanbernardino/case.php?id=6446070&access=3238643865613335>

Thank you,
Office of the City Manager

Appendix I

Request for Records Search to the
South Coast Air Quality Management District

shannon environmentalsupportservices.com

From: PublicRecordsRequests@aqmd.gov
Sent: Thursday, August 18, 2022 6:54 PM
To: shannon environmentalsupportservices.com
Subject: SCAQMD Public Records Request Submittal Acknowledgement



Shannon Castagno
Environmental Support Services
1521 Beaver Tan Court
Wake Forest, Nc 27587

RE: Request for Records
Request: Applications (APPLS), Complaints, Permits to Operate (P/O), Site Inspection Reports (I/R), Equipment List Report (EQL), Emissions Summary, Notices of Violation (NOV), Notices to Comply (N/C)

Facility ID:

Facility Name:

Address: 24432 PIONEER AVENUE

City: SAN BERNARDINO

Your request for records has been received by the Public Records Unit and will be assigned for processing. A Control Number will be issued for your request and should be referenced in all future communications and correspondence. **Within 10 days of our receipt of your request, we will send you an email letting you know if we have the requested records, and how long it will take to provide them. Please send any follow up emails to the staff member that sends this email, and reference the request number.**

Should you have any questions or need additional information, please do not hesitate to contact me at (909) 396-3700, Tuesday through Friday, between the hours of 8:00 a.m. 4:30 p.m.

Sincerely,

COLLEEN PAINE

For Colleen Paine
Public Records Coordinator

1414590

shannon environmentalsupportservices.com

From: PublicRecordsRequests@aqmd.gov
Sent: Thursday, August 18, 2022 6:53 PM
To: shannon environmentalsupportservices.com
Subject: SCAQMD Public Records Request Submittal Acknowledgement



Shannon Castagno
Environmental Support Services
1521 Beaver Tan Court
Wake Forest, Nc 27587

RE: Request for Records
Request: Applications (APPLS), Complaints, Permits to Operate (P/O), Site Inspection Reports (I/R), Equipment List Report (EQL), Emissions Summary, Notices of Violation (NOV), Notices to Comply (N/C)

Facility ID:

Facility Name:

Address: 648, 652, 668, 684 & 706 EAST ORANGE SHOW ROAD

City: SAN BERNARDINO

Your request for records has been received by the Public Records Unit and will be assigned for processing. A Control Number will be issued for your request and should be referenced in all future communications and correspondence. **Within 10 days of our receipt of your request, we will send you an email letting you know if we have the requested records, and how long it will take to provide them. Please send any follow up emails to the staff member that sends this email, and reference the request number.**

Should you have any questions or need additional information, please do not hesitate to contact me at (909) 396-3700, Tuesday through Friday, between the hours of 8:00 a.m. 4:30 p.m.

Sincerely,

COLLEEN PAINE

For Colleen Paine
Public Records Coordinator

1414588

Appendix J

Request for Records Search to the
Regional Water Quality Control Board – Santa Ana Region

Est. 1988

Environmental Support Services

Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

August 18, 2022

Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Ste 500
Riverside, CA 92501

Attention: LUST/WIP/SLIC/Site Mitigation Divisions

Dear Public Records Request,

Please check for any files/information on the following sites:

Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)

I would like to set up an appointment to review this file **as soon as possible**. Anything you can do to expedite this request would be greatly appreciated. Please call me at (949) 429-3564. Thanks!

Sincerely,
Environmental Support Services

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

shannon environmentalsupportservices.com

From: CALFIRE PRA Records Center <calfire@govqa.us>
Sent: Thursday, August 25, 2022 4:13 PM
To: shannon environmentalsupportservices.com
Subject: [Records Center] Public Records Request :: R005043-081822

--- Please respond above this line ---

RE: PUBLIC RECORDS REQUEST of August 18, 2022, Reference # R005043-081822

Dear Shannon Castagno,

CAL FIRE received a public information request from you on August 18, 2022. Your request mentioned:

"Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA, APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222, (See Attached Map).
ESS requests the following information concerning the subject site which your agency may have on file: 1. utilization, manufacture, storage, or discharge of hazardous materials/waste. 2. previous or on-going site investigations/remediations pertaining to hazardous materials/waste. 3. hazardous materials disclosures concerning the site. 4. pipelines. 5. information regarding underground storage tank present or previously found at the site. 6. Reportable Spills, Releases, Notices of Violations (NOVs) and any Environmental Reportable Issues."

CAL FIRE has reviewed its files and has determined there are no responsive documents to your request.

If you have any questions or wish to discuss this further, you may contact our office.

Sincerely,
Ashley Miller
Legal Analyst
Sacramento - HQ - Legal Office

To monitor the progress or update this request please log into the CALFIRE PRA Records Center

shannon environmentalsupportservices.com

From:	Sylvia Bautista <Bautista_Sy@sbcity.org>
Sent:	Thursday, August 25, 2022 2:18 PM
To:	shannon environmentalsupportservices.com
Cc:	Courtney Bowen; Diane Grant; Dianna Garcia; Genoveva Rocha; Perla Lopez; Telicia Lopez
Subject:	CPRA Response for 6446070 Caspagno, Shannon (3) 08-18-22
Attachments:	B0100150 668 E Orange Show Rd.pdf; B0302395 652 E Orange Show Rd.pdf; B0700174 648 E Orange Show rd.pdf; B2200829 706 E Orange Show Rd.pdf

Dear Sir/Madam,

This letter is in response to your request for public records received on August 18, 2022, by the City of San Bernardino ("City") pursuant to the California Public Records Act, Government Code § 6250 et seq. ("the Act"). You asked to review the following:

> Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706
> East Orange Show Road
> San Bernardino, CA
> APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
> (See Attached Map)
> I hereby request copies of all building permits and certificates of occupancy for the above addresses.

The city has located documents responsive to the above request. Attached is an electronic copy of Building Permits for locations: 668 E. Orange Show Rd., 652 E. Orange Show Rd., 648 E. Orange Show Rd., and 706 E. Orange Show Rd. Please be advised that there are no other records pertaining to the other properties in question.

Please let me know if you have any questions. Thank you

Sylvia Bautista
Records Management Specialist
City of San Bernardino – Office of the City Clerk
Office: 201 North "E" Street
Mail: 290 North "D" Street
San Bernardino, California 92401
Direct: 909.384.5002 | x3215
Bautista_sy@sbcity.org | www.sbcity.org

Expired

025

Suite #: ?? Inspector Area: ? Permit #: B0100150

Address:	**668 E ORANGE SHOW RD**	Date Issued:	01/19/2001
Parcel #:	0280172010000	Permit Type:	BLDG
Owner:	PAYTON WENDELL W	Phone #:	
Contractor:	VALLEY ROOFING COMPANY	Phone #:	(909)795-3100

********** DESCRIPTION **********

REROOF: REMOVE EXISTING 16 SQS. AND REPLACE WITH COMP. SHINGLE

********** REPAIRS/REHAB **********

	Roof Sheeting Number of Sqs:	0	Reroof with Comp Shingles: 16
	Reroof with Built Up System:	0	
	Reroof with Rolled Roofing:	0	
	Reroof with Tile Roofing:	0	

????

INSPECTION RECORD

Post in a safe, conspicuous place at front of job. Provide street address when calling for inspection. Have plans available on job at time of inspection.

— Building Inspection Division —

(909) 384-5071 - Office • (909) 384-5078 - Inspection Request

Hours: Monday - Thursday — 7:30 a.m. to 5:30 p.m.

Friday (Alternating) — 7:30 a.m. to 4:30 p.m.

Notice to Owner: Do Not Conceal Work Until Inspected and Signed Off by the Inspector.

Call for final inspection of every job. This permit will expire if work is suspended or abandoned for a period of 180 days.

CODE #	INSPECTION TYPE	DATE	INTITIALS	CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural				**Electrical**			
00010	Rough Grading			00070	Temp Power Pole		
00020	Setbacks			00060	Underground Electrical		
00030	Foundation/Ftgs.			00162	UFER		
00040	Slab Grade			00160	Rough Electrical		
00080	Pool Pre-Gunite			00275	Electrical Service		
00090	Pool Pre-Plaster			00165	Misc. Electrical		
00100	Masonry & Steel (1st lift)			**Plumbing**			
00110	Masonry & Steel (2nd lift)			00050	Underground Plumbing		
00111	Masonry & Steel (3rd lift)			00220	Sewer/Sewage Disposal		
00112	Masonry & Steel (4th lift)			00230	Water Service		
00115	Roof Sheathing			00170	Rough Plumbing		
00120	Roof Covering			00260	Gas Piping/Air Test		
00130	Shear Nailing			00235	Misc. Plumbing		
00140	Framing			**Mechanical**			
00180	Insulation			00150	Rough Mechanical		
00190	Exterior Lath or Siding			00155	Misc. Mechanical		
00200	Stucco Scratch			**Final Inspections**			
00210	Stucco Brown			00310	Irrigation/Landscaping		
00240	Drywall			00410	Planning Requirements		
00150	T-Bar			00400	Engineering Dept. Final		
00125	Reroof			00420	Health Dept. Approval		
00320	Demolition			00415	Fire Dept. Approval		
00460	Misc.			00280	Final Electrical		
Other				00290	Final Plumbing		
00470	Mobile Home Install			00300	Final Mechanical		
00480	Awnings/Porches			00350	Final Construction		

Comments:

Permittee Responsibility

- The project address must be visible from street, check address visibility prior to calling for inspections (UBC 502).
- City "approved" plans must be on project site, available for Building Inspectors examination (UBC 106.4). City Inspectors will not make inspection without approved plans. The project is to be built in accordance with the approved plans and applicable Code requirements (UBC 108).
- The Building Inspection Division must be called to make progress inspections (UBC 108).
- All work is to be inspected prior to covering; work covered without City Inspection must be uncovered at owner's/contractor's expense (UBC 108)
- The owner must obtain a Certificate of Occupancy from City prior to occupying the building or using the project (UBC 109).

19

Development Services Department

Permit Number

B0100150

(909) 384-5071 • Fax: (909) 384-5080 • www.san-bernardino.ca.us

300 North "D" Street, San Bernardino, CA 92418

REROOF PERMIT

Job Address:	**668 E ORANGE SHOW RD**	Status:	ISSUED
		Applied:	01/19/2001
Parcel:	0280172010000	Issued:	
Owner:	PAYTON WENDELL W	Phone:	
Address:	7241 LEEDOM DR HIGHLAND CA92346-5098		
Contractor:	VALLEY ROOFING COMPANY	Phone:	(909)795-3100
Address:	33481 ROSEMOND YUCAIPA, CA92399	License:	494316
Architect:		Phone:	
Address:		License:	
Engineer:		Phone:	
Address:		License:	

********** Building Information **********

Highwind: N

********** Description/Valuation **********

Type of Permit: REROOF: REMOVE EXISTING 16 SQS. AND REPLACE WITH COMP. SHINGLE

********** Fee Summary **********

Building Permit:	$43.00		
Strong Motion Res:	$0.50	Total Fees:	$58.50
Strong Motion Com:	$0.00	Amount Received:	$58.50
Building Issuance:	$15.00	Balance Due:	$0.00

********** Comments **********

EXPIRATION: This permit shall automatically expire and become void if work is not commenced within 180 days, or if work is suspended or abandoned for a period of 180 days. DEMOLITION PERMITS SHALL EXPIRE WITHIN 90 DAYS.

INSPECTIONS: In order for the work authorized under this permit to be considered legal, such work must comply with all applicable codes, and all **required inspections and final approval** must be obtained. Failure to obtain inspections and final approval will result in the expiration of this permit. **For Inspections Call:** (909) 384-5078

— "Permit Form" —

FILE

DECLARATIONS

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:

❑ I have and will maintain a certificate of consent to self-Insure for workers' compensation, as provided for by section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

❑ I have and will maintain workers' compensation insurance, as required by section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund (This section need not be completed if the permit
Policy Number 0768228 is valued at one hundred dollars ($100) or less.)

❑ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.

Applicant Signature: [signature] Date: 1-19-01

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTORS DECLARATION:
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Lic. # 495316 Class #:

Contractor's Signature: [signature] Date: 1-19-01

CONSTRUCTION LENDING AGENCY:
❑ I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

Lender's Name Lender's Address

Signature: Date:

OWNER-BUILDER DECLARATION:
I hereby affirm that under penalty of perjury that I am **EXEMPT FROM THE CONTRACTORS LICENSE LAW** for the following reason (Sec. 7031.5, Business and professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

❑ I, as owner of the property, or my employees with wages as their sole compensation, **WILL DO THE WORK**, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for purpose of sale.).

❑ I, as owner of the property, am **EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS** to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

❑ I am exempt under sec. Business and Professions Code for this reason:

Signature: Date:

Owner ID verified by driver's license. ❑ Yes ❑ No Driver's License No. Expires:

Verification of Ownership by (type of document, i.e. - property tax bill or deed):

CAL-OSHA/HAZ. MAT. DECLARATION:
Will there be any excavation (5) five or more feet in depth into which a person will be required to descend? ❑ Yes ❑ No

Will the building/tenant space be used to store or display any hazardous materials? ❑ Yes ❑ No

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION OF ENTRY: I certify that I have read this application and state that the information given is correct. I agree to comply with all state laws and city ordinances relating to building construction, and authorize representatives of the City of San Bernardino to enter upon the above-described property for inspection purposes.

Signature of Legal Owner(s) and/or Authorized Applicant [signature] Date: Date: 1-19-01

CODE #	INSPECTION TYPE	DATE	INTITIALS
Structural			
00010	Rough Grading		
00020	Setbacks		
00030	Foundation/Ftgs.		
00040	Slab Grade		
00080	Pool Pre-Gunite		
00090	Pool Pre-Plaster		
00100	Masonry & Steel (1st lift)		
00110	Masonry & Steel (2nd lift)		
00111	Masonry & Steel (3rd lift)		
00112	Masonry & Steel (4th lift)		
00115	Roof Sheathing		
00120	Roof Covering		
00130	Shear Nailing		
00140	Framing		
00180	Insulation		
00190	Exterior Lath or Siding		
00200	Stucco Scratch		
00210	Stucco Brown		
00240	Drywall		
00150	T-Bar		
00125	Reroof		
00320	Demolition		
00460	Misc.		
Other			
00470	Mobile Home Install		
00480	Awnings/Porches		

CODE #	INSPECTION TYPE	DATE	INTITIALS
Electrical			
00070	Temp Power Pole		
00060	Underground Electrical		
00162	UFER		
00160	Rough Electrical		
00275	Electrical Service		
00165	Misc. Electrical		
Plumbing			
00050	Underground Plumbing		
00220	Sewer/Sewage Disposal		
00230	Water Service		
00170	Rough Plumbing		
00260	Gas Piping/Air Test		
00235	Misc. Plumbing		
Mechanical			
00150	Rough Mechanical		
00155	Misc. Mechanical		
Final Inspections			
00310	Irrigation/Landscaping		
00410	Planning Requirements		
00400	Engineering Dept. Final		
00420	Health Dept. Approval		
00415	Fire Dept. Approval		
00280	Final Electrical		
00290	Final Plumbing		
00300	Final Mechanical		
00350	Final Construction		

City of San Bernardino California

Print Close

Permit Number	B0302395	Address	652 E ORANGE SHOW RD
Type / Classification	REHAB RHAB:RES REHAB BLDG:Building	Parcel Number	0280172020000
		Legal Description	TR NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 57 EX ST ***** 1-10-97 #97-009210 ST *****
File Date	9/22/2003		
Status	FINAL	Valuation	$0.00
Description	12 WINDOWS (7 ARE BEDROOM) MECHANICAL ADDED.	Fees	$102.50
		Payments	$102.50
		Balance	$0.00

Relationship	Name
APPLICANT	DURAN, JOHN G

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 9 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
140	FRAMING AND VENTILATION	9/24/2003	13	Not Approved: Correction Written	CORRECTION
140	FRAMING AND VENTILATION	9/26/2003	13	Not Approved: Partial Approval	PARTIAL APPROVAL
140	FRAMING AND VENTILATION	10/2/2003	13	Approved: Approved	APPROVED
150	Rough Heating and Mechanical	10/29/2003	09	Not Approved: Correction Written	
190	LATH/STUCCO MESH	10/2/2003	13	Approved: Approved	APPROVED
300	FINAL MECHANICAL	6/17/2004	23	Not Approved: Correction Written	CORRECTION
300	FINAL MECHANICAL	6/29/2004	25	Approved: Approved	APPROVED
350	BUILDING FINAL	10/17/2003	13	Approved: Approved	APPROVED
350	BUILDING FINAL	6/29/2004	25	Approved: Approved	APPROVED

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 1 Total

Payment Date	Payment ID	Payment Amount	Payment Type
9/22/2003	T000024847	$102.50	Cash

Close

City of San Bernardino California

Print Close

Permit Number	B0700174	Address	684 E ORANGE SHOW RD
Type / Classification	REROOF Res:Reroof Residential BLDG:Building	Parcel Number	0280192180000
		Legal Description	TRACT 2228 LOT 54 TR NO 2228 W 80 FT OF S 1/2 OF LOT 54 EX ST ***** 12/23/96 #96-468841 ST *****
File Date	1/17/2007		
Status	FINAL	Valuation	$0.00
Description	REROOF COMP SHINGLES (20 SQS)	Fees	$95.50
		Payments	$95.50
		Balance	$0.00

Relationship	Name
APPLICANT	ORTIZ ROOFING COMPANY
CONTRACTOR	ORTIZ ROOFING COMPANY

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 2 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
125	REROOF	1/22/2007	15	Approved: Approved	APPROVED
350	BUILDING FINAL	1/22/2007	15	Approved: Approved	APPROVED

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 1 Total

Payment Date	Payment ID	Payment Amount	Payment Type
1/17/2007	T000051882	$95.50	Check

Close

City of San Bernardino California

Print Close

Permit Number	B2200829	Address	706 E ORANGE SHOW RD
Type / Classification	BLDG E:ELECTRICAL ONLY BLDG:Building	Parcel Number	0280192210000
		Legal Description	TRACT NO 2228 VALLEY TRUCK FARMS NO 4 S 1/2 LOT 53 EX ST ***** 1-10-97 #97-009207 ST *****
File Date	2/16/2022		
Status	FINAL	Valuation	$1,500.00
Description	MPU 200Amp	Fees	$168.18
		Payments	$168.18
		Balance	$0.00

Relationship	Name
APPLICANT	A R ELECTRICAL & PLUMBING INC
CONTRACTOR	A R ELECTRICAL & PLUMBING INC

Scheduled Inspections

Records, 0 Total

Date	Inspection Type	Description

Completed Inspections

Records, 5 Total

Inspection Type	Inspection Description	Date	Inspector	Status	Inspector's Comment
160	ROUGH ELECTRICAL	3/30/2022	Houts	Not Approved: NOT READY	
160	ROUGH ELECTRICAL	3/31/2022	Houts	Approved: Approved	
280	FINAL ELECTRICAL	3/31/2022	Houts	Approved: Approved	
350	BUILDING FINAL	3/31/2022	Houts	Approved: Approved	
814	METER RESET ELECTRICAL	3/31/2022	Houts	Approved: Approved	200 amp single phase meter

Status

Records, 0 Total

Apprv ID	Description	Status Date	Status	Record By	Assign to	Comment

Payments

Records, 1 Total

Payment Date	Payment ID	Payment Amount	Payment Type
2/16/2022	T000186236	$168.18	Credit Crd

Close

shannon environmentalsupportservices.com

From:	Sylvia Bautista <Bautista_Sy@sbcity.org>
Sent:	Friday, August 26, 2022 1:05 PM
To:	shannon environmentalsupportservices.com
Cc:	Courtney Bowen; Diane Grant; Dianna Garcia; Genoveva Rocha; Perla Lopez; Telicia Lopez
Subject:	CPRA Response for 6446063 Caspagno, Shannon (1) 08-18-22

Dear Sir/Madam,

This letter is in response to your request for public records received on August 18, 2022, by the City of San Bernardino ("City") pursuant to the California Public Records Act, Government Code § 6250 et seq. ("the Act"). You asked to review the following:

> Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706
> East Orange Show Road
> San Bernardino, CA
> APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
> (See Attached Map)
> ESS requests the following information concerning the subject addresses which the public works department may have on file:
> 1. copies of applications and permits for industrial waste discharge; and
> 2. copies of any and all violations concerning industrial waste discharge.

Please be advised that the City of San Bernardino, at this time, does not have any responsive records pertaining to the location in question: : 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road, San Bernardino, CA and APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222. Please be advised that any waste discharge please check with the County of San Bernardino.

San Bernardino County - Official Website (sbcounty.gov)
Phone: 855-732-2575

San Bernardino Waste Public Works,
http://www.sbcounty.gov/wsd/

Please let us know if you have any further questions. Thank you.

Sylvia Bautista
Records Management Specialist
City of San Bernardino – Office of the City Clerk
Office: 201 North "E" Street
Mail: 290 North "D" Street
San Bernardino, California 92401
Direct: 909.384.5002 | x3215
Bautista_sy@sbcity.org | www.sbcity.org

shannon environmentalsupportservices.com

From: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Sent: Thursday, August 25, 2022 2:35 PM
To: shannon environmentalsupportservices.com
Subject: RE: New Public Records Request

Good morning,

After careful review of our records, we show we have no files for the following site(s):
24432 Pioneer Avenue
648, 652, 668, 684 & 706 East Orange Show Road
In San Bernardino

Unfortunately, we do not use APN numbers or cross streets to maintain our files. We only use facility names and/or physical address numbers to locate files. If you can provide a numerical address or facility name, we can carry out your request.
If we can be of further assistance, please do not hesitate to contact us again.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

From: shannon environmentalsupportservices.com <shannon@environmentalsupportservices.com>
Sent: Thursday, August 18, 2022 3:35 PM
To: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Subject: New Public Records Request

EXTERNAL:

Est. 1988

Environmental Support Services
Environmental Research & Due Diligence Compliance
1521 Beaver Tan Court | Wake Forest, NC 27587
P) 949.429.3564 | F) 949.429.3563 | E) Shannon@EnvironmentalSupportServices.com
www.EnvironmentalSupportServices.com | EIN# 83-0533710

August 18, 2022

Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Ste 500

Riverside, CA 92501

Attention: LUST/WIP/SLIC/Site Mitigation Divisions

Dear Public Records Request,

Please check for any files/information on the following sites:

Site: 24432 Pioneer Avenue and 648, 652, 668, 684 & 706 East Orange Show Road
San Bernardino, CA
APNs 028-017-201, -204, -211, -216, -217, -220, -221 & -222
(See Attached Map)

I would like to set up an appointment to review this file **as soon as possible**. Anything you can do to expedite this request would be greatly appreciated. Please call me at
(949) 429-3564. Thanks!

Sincerely,
Support Services

Shannon Castagno
Project Manager
Shannon@EnvironmentalSupportServices.com

APPENDIX E
Site Visit Photographs

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 1

Date: 09 May 2022

Direction: South

Comments: View of the front residential property at 867 Norman Road. A modular office is visible in the background.



Photograph 2

Date: 09 May 2022

Direction: South

Comments: View of a manufactured office building occupied by Geerlings Heavy Equipment Rental located on the south portion of the 867 Norman Road property.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 3 **Date:** 09 May 2022 **Direction:** East **Comments:** View of the equipment storage yard for Geerlings Heavy Equipment Rental at the 867 Norman Road property.	
Photograph 4 **Date:** 09 May 2022 **Direction:** South **Comments:** View of two 55-gallon drums of diesel engine oil at the 867 Norman Road property.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 5 **Date:** 09 May 2022 **Direction:** West **Comments:** View of engine parts stored in the south portion of the 867 Norman Road property.	

Photograph 6 **Date:** 09 May 2022 **Direction:** Northwest **Comments:** View of construction equipment storage in the north portion of the 823 Norman Road property. Geosyntec was unable to access this property during the Site reconnaissance.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 7 **Date:** 09 May 2022 **Direction:** Southwest **Comments:** View of aggregate piles of fill dirt and broken concrete located on the south portion of the 823 Norman Road property.	

Photograph 8 **Date:** 09 May 2022 **Direction:** South **Comments:** View of the office building and employee/customer parking lot for American Tow Group at 807 Norman Road.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 9

Date: 09 May 2022

Direction: North

Comments: View of the vehicle storage lot at American Tow Group. Staining is visible on the concrete in the foreground.



Photograph 10

Date: 09 May 2022

Direction: East

Comments: View of an unused potential wash pad located in the southern portion of the American Tow Group property. A drain was observed in the trench in the foreground. No major staining was observed, and the concrete appeared to be in good condition.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 11 **Date:** 09 May 2022 **Direction:** West **Comments:** View of a cellular tower located on a vacant lot at the property identified by APN: 028-020-208.	

Photograph 12 **Date:** 09 May 2022 **Direction:** North **Comments:** View of the truck yard and an empty Conex box located at the properties identified by APNs: 028-019-208 and 028-019-209.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 13

Date: 09 May 2022

Direction: Southwest

Comments: View of the front residential property at 755 Norman Road.



Photograph 14

Date: 09 May 2022

Direction: Southwest

Comments: View of debris, discarded, ASTs and drums stored in the yard of 755 Norman Road.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 15 **Date:** 09 May 2022 **Direction:** West **Comments:** Typical view of debris located in the yard of 755 Norman Road.	

Photograph 16 **Date:** 09 May 2022 **Direction:** Northeast **Comments:** View of an unlabeled AST stored on a trailer in the south portion of the yard at 755 Norman Road.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 17

Date: 09 May 2022

Direction: North

Comments: View of the maintenance canopy and typical view of storage at the 755 Norman Road property.



Photograph 18

Date: 09 May 2022

Direction: Southwest

Comments: View of a canopy for performing maintenance of vehicles at the property identified by APN: 028-192-05.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 19

Date: 09 May 2022

Direction: Southwest

Comments: View of hazardous materials storage beneath the canopy at the property identified by APN: 028-192-05. Five gallon buckets of transmission fluid and diesel engine oil were observed. Absorbent had been applied over areas with minor staining



Photograph 20

Date: 09 May 2022

Direction: Southeast

Comments: View of vehicle and trailer storage on the south side of the property identified by APN: 028-192-05.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 21

Date: 09 May 2022

Direction: South

Comments: View of the property located at the APN: 028-019-204 and occupied by a roofing contractor. This property was inaccessible during the Site reconnaissance.



Photograph 22

Date: 09 May 2022

Direction: North

Comments: View of storage on the south side of the property located at the APN: 028-019-204. This area was observed from the adjoining fence line and was inaccessible.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 23

Date: 09 May 2022

Direction: East

Comments: Typical view of manhole covers for a septic tank located on residential properties. This tank is located on the property at 755 Norman Road.



Photograph 24

Date: 09 May 2022

Direction: Southwest

Comments: View of an aboveground septic tank located on the residential property at 707 Norman Road.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 25

Date: 09 May 2022

Direction: South

Comments: View of a barricade in the south portion of the yard at 707 Norrman Road. Geosyntec did not have access to this area during the Site reconnaissance.



Photograph 26

Date: 09 May 2022

Direction: South

Comments: View of the residential home at 707 Norman Road.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 27

Date: 09 May 2022

Direction: South

Comments: View of the yard at 707 Norman Road



Photograph 28

Date: 09 May 2022

Direction: South

Comments: Typical view of the yard located south of the residence at 695 Norman Road. A large pile of vegetation and debris is visible on the left.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 29 **Date:** 09 May 2022 **Direction:** North **Comments:** View of a vehicle maintenance yard at 788 Orange Show Road.	

Photograph 30 **Date:** 09 May 2022 **Direction:** North **Comments:** View of staining observed in the yard at 788 Orange Show Road.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 31

Date: 09 May 2022

Direction: N/A

Comments: Typical view of hazardous materials storage within the yard at 788 Orange Show Road. Containers of transmission fluid, wallpaper paste, paint, oil, degreasers were observed in several plastic baskets.



Photograph 32

Date: 09 May 2022

Direction: East

Comments: Typical view of vacant lots located at the properties identified by APNs: 028-019-211, 028-019-212 and 028-019-213. Chopped wood piles are visible in the background.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 1 **Date:** 05 August 2022 **Direction:** North **Comments:** View of the front residential property 684 East Orange Show Road. The property appears to be vacant.	

Photograph 2 **Date:** 05 August 2022 **Direction:** South **Comments:** View of the residential property yard located at 668 East Orange Show Road.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 3

Date: 05 August 2022

Direction: West

Comments: Typical view of the residential yard located at 652 East Orange Show Road.



Photograph 4

Date: 05 August 2022

Direction: North

Comments: Significant oil stain observed in the residential yard located at 24432 Pioneer Avenue.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 5

Date: 05 August 2022

Direction: North

Comments: View of motor oil containers stored in the residential yard located at 24432 Pioneer Avenue.



Photograph 6

Date: 05 August 2022

Direction: Southeast

Comments: Photo of an empty 55 gallon stained drum located northeast of the APN: 0280-172-21.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 7 **Date:** 05 August 2022 **Direction:** Southeast **Comments:** Photo of an empty 55 gallon stained drum located northwest the APN: 0280-172-21.	

Photograph 8 **Date:** 05 August 2022 **Direction:** Southeast **Comments:** View of a portable concrete storage tank located east of APN: 0280-172-21.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 9 **Date:** 05 August 2022 **Direction:** North **Comments:** Typical view of pipe stored/disposed at APNs: 0280-172-21, 0280-172-22, and 0280-172-17.	
Photograph 10 **Date:** 05 August 2022 **Direction:** Northeast **Comments:** Minor oil stain on soil located west of APN: 0280-172-17.	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 11

Date: 05 August 2022

Direction: North

Comments: Empty drums located north of APN: 0280-172-17.



Photograph 12

Date: 05 August 2022

Direction: Northeast

Comments: View of the yard located at 706 East Orange Show Road.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Hillwood Enterprises, L.P	**Project Number:** SC1256
Site Name: Gateway South Building 9 Assemblage	**Site Location:** San Bernardino, California 92408

Photograph 13

Date: 05 August 2022

Direction: South

Comments: View of the yard located at 706 East Orange Show Road.



Photograph 14

Date: 05 August 2022

Direction: Southwest

Comments: View of the yard located at 706 East Orange Show Road.



APPENDIX F
Soil Sample Analytical Data

DRAFT

Table 1 - Summary of Analytical Results
Phase II Environmental Site Assessment
Gateway South Building 9 Assemblage
San Bernardino, California

Geosyntec consultants

Constituent	Units	RL	Screening Level[1]	Sample Identification														
				SP1-S	SP2-E	SP3-N	SP4-W	HA-1	HA-2	HA-3	HA-4	HA-5	HA4-220805	EX-N-220805	EX-S-220805	EX-E-220805	EX-W-220805	EX-220805
			Sample Date	7/8/2022	7/8/2022	7/8/2022	7/8/2022	7/8/2022	7/8/2022	7/8/2022	7/8/2022	7/8/2022	8/5/2022	8/5/2022	8/5/2022	8/5/2022	8/5/2022	8/5/2022
Total Petroleum Hydrocarbons (TPH); EPA Method 8015M*																		
C10-C28 (DRO)	mg/kg	10	1,200	460	640	ND	ND	ND	900	**13,000**	290	340	**2,300**	29	27	ND	19	15
C28-C44 (ORO)	mg/kg	20	180,000	1,600	2,500	720	490	ND	830	5,800	180	290	1,300	ND	ND	ND	ND	ND
Metals; EPA Method 6010B/7471A*																		
Antimony	mg/kg	3.0	470	ND	ND	ND	ND	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Arsenic	mg/kg	1.0	12**	4.4	3.9	3.6	3.9	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Barium	mg/kg	1.0	220,000	100	68	80	88	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chromium	mg/kg	1.0	1,800,000	16	99	22	24	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Cobalt	mg/kg	0.5	350	7.8	4.8	8.2	9.1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Copper	mg/kg	1.0	47,000	20	16	21	23	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Lead	mg/kg	1.0	320	11	12	7.9	8.8	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Molybdenum	mg/kg	1.0	5,800	ND	1.6	ND	ND	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Nickel	mg/kg	1.0	11,000	15	11	11	15	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vanadium	mg/kg	1.0	5,800	37	66	50	55	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Zinc	mg/kg	5.0	350,000	54	44	44	51	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Notes
* Only constituents with detectable concentrations above the laboratory Reporting Limit (RL) are reported.
mg/kg = milligram per kilogram ND - Non Detect NE - Not Established
** DTSC acknowledges background concentrations of arsenic in California are as high as 12 mg/kg.
1 - Screening Levels consist of EPA Regional Screening Levels (RSLs) for Industrial Soil; Summary Table (TR=1E-06, HQ=1) May 2022; California Department of Toxic Substances Control Screening Levels for Industrial Soil (DTSC SLs, June 2020); or San Francisco Regional Water Quality Control Board (SFRWQCB), Environmental Screening Levels (ESLs); Commercial/Industrial Shallow Soil Exposure, 2019 (Rev. 2).

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

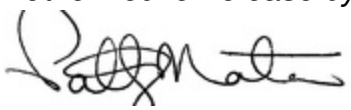
Lab Job Number: 465469
Report Level: II
Report Date: 07/29/2022

Analytical Report *prepared for:*

Jackie Hyman
GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108

Location: GWS-9

Authorized for release by:



Patty Mata, Project Manager
patty.mata@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Jackie Hyman
GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108

Lab Job #: 465469
Location: GWS-9
Date Received: 07/08/22

Sample ID	Lab ID	Collected	Matrix
SP1-S	465469-001	07/08/22 11:30	Soil
SP2-E	465469-002	07/08/22 11:25	Soil
SP-3N	465469-003	07/08/22 11:22	Soil
SP-4W	465469-004	07/08/22 11:20	Soil
HA-1	465469-005	07/08/22 12:05	Soil
HA-2	465469-006	07/08/22 12:25	Soil
HA-3	465469-007	07/08/22 12:55	Soil
HA-4	465469-008	07/08/22 13:05	Soil
HA-5	465469-009	07/08/22 13:33	Soil

Case Narrative

GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108
Jackie Hyman

Lab Job Number: 465469
Location: GWS-9
Date Received: 07/08/22

This data package contains sample and QC results for nine soil samples, requested for the above referenced project on 07/08/22. The samples were received cold and intact. Revised report to include additional metals results that were requested.

TPH-Extractables by GC (EPA 8015M):

- Many samples were diluted due to the dark and viscous nature of the sample extracts. Extract color and/or viscosity are used as indicators of possible matrix interference. Elevated reporting limits were due to the necessary dilutions.
- No other analytical problems were encountered.

Pesticides (EPA 8081A):

- SP1-S (lab # 465469-001) was diluted due to the color of the sample extract. Extract color is used as an indicator of possible matrix interference. Elevated reporting limits were due to the necessary dilution.
- SP2-E (lab # 465469-002), SP-3N (lab # 465469-003), and SP-4W (lab # 465469-004) were diluted due to the dark color of the sample extracts. Extract color is used as an indicator of possible matrix interference. Elevated reporting limits were due to the necessary dilutions.
- No other analytical problems were encountered.

PCBs (EPA 8082):

- A number of samples were diluted due to the dark color of the sample extracts. Extract color is used as an indicator of possible matrix interference. Elevated reporting limits were due to the necessary dilutions.
- No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

- Low recoveries were observed for antimony in the MS/MSD for batch 292612; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- Low recoveries were observed for antimony in the MS/MSD of HA-3 (lab # 465469-007); the LCS was within limits. High RPD was also observed for antimony; this analyte was not detected at or above the RL in the associated sample.
- No other analytical problems were encountered.

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Chain of Custody Record

Lab No: 485404

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard: ✓	5 Day:	3 Day:
2 Day:	1 Day:	Custom TAT:

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: 64/49 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Geosyntec consultants.		
Report To:	Jackie Hayman.	Proj. Name:	GWS9
Email:	Jhayman@geosyntec.com	Proj. #:	SCK
Address:	16644 W. Bernardo Dr, Suite 30	P.O. #:	-
	San diego, CA.	Address:	N Normand Rd, San Bernardino
Phone:	626-609-9525	Global ID:	-
Fax:	-	Sampled By:	Jackie Hayman / Yoncet Bontamnie

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: TPH extended range (EPA 8015M)	Title 22 Metals (EPA 6010B)	PCBs (EPA 8082A)	Organochlorine Pesticides (EPA 8081)	VOCs (EPA 8260)	Test Instructions / Comments
1	SP1-S	7/8/22	1130	S	1	ICE	X	X	X	X		
2	SP2-E		1125				X	X	X	X		
3	SP-3N		1122				X	X	X	X		
4	SP-4W		1120				X	X	X	X		
5	HA-1		1205				X				X	
6	HA-2		1225				X				X	
7	HA-3		1255				X				X	
8	HA-4		1305				X				X	
9	HA-5		1333				X				X	
10												

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Yoncet Bontamnie	geosyntec / geologist.	7/8/2022, 1458
[1] Received By:		G Kim	GA	7/8/2 1458
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

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SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Geosyntec Consultants Project: GWS9

Date Received: 7/8/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 6.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 4.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 7/8/22

Enthalpy Analytical, a subsidiary of Montrose Environmental Group ,Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

MONTROSE ENVIRONMENTAL

Patty Mata <patty.mata@enthalpy.com>

[EXTERNAL] RE: GWS-9 - Enthalpy Data (465469)

1 message

Jackie Hyman <JHyman@geosyntec.com> Fri, Jul 22, 2022 at 1:03 PM
To: "patty.mata@enthalpy.com" <patty.mata@enthalpy.com>

Hello Patty,

Could you please run sample HA-3 for Title 22 metals?

Thanks,

Jackie Hyman

Professional

Geosyntec Consultants, Inc.

2355 Northside Drive, Suite 250

San Diego, CA 92108

Office: 858.674.6559

Mobile: 626.609.9525

GEOSYNTEC | SIREM | SAVRON

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From: Patty Mata <patty.mata@enthalpy.com>
Sent: Monday, July 18, 2022 5:42 PM
To: Jackie Hyman <JHyman@Geosyntec.com>
Subject: GWS-9 - Enthalpy Data (465469)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

Hi Jackie,

ENTHALPY ANALYTICAL

Analysis Results for 465469

Jackie Hyman
GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108

Lab Job #: 465469
Location: GWS-9
Date Received: 07/08/22

Sample ID: SP1-S **Lab ID: 465469-001** **Collected: 07/08/22 11:30**
Matrix: Soil

465469-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.6	0.88	292612	07/11/22	07/12/22	KLN
Arsenic	**4.4**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Barium	**100**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Beryllium	ND		mg/Kg	0.44	0.88	292612	07/11/22	07/18/22	KLN
Cadmium	ND		mg/Kg	0.44	0.88	292612	07/11/22	07/12/22	KLN
Chromium	**16**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Cobalt	**7.8**		mg/Kg	0.44	0.88	292612	07/11/22	07/12/22	KLN
Copper	**20**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Lead	**11**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Molybdenum	**1.6**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Nickel	**15**		mg/Kg	0.88	0.88	292612	07/11/22	07/18/22	KLN
Selenium	ND		mg/Kg	2.6	0.88	292612	07/11/22	07/12/22	KLN
Silver	ND		mg/Kg	0.44	0.88	292612	07/11/22	07/12/22	KLN
Thallium	ND		mg/Kg	2.6	0.88	292612	07/11/22	07/12/22	KLN
Vanadium	**37**		mg/Kg	0.88	0.88	292612	07/11/22	07/12/22	KLN
Zinc	**54**		mg/Kg	4.4	0.88	292612	07/11/22	07/18/22	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	292953	07/13/22	07/14/22	SBW
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
DRO C10-C28	**460**		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
ORO C28-C44	**1,600**		mg/Kg	400	20	292945	07/14/22	07/14/22	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	20	292945	07/14/22	07/14/22	MES
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
beta-BHC	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
gamma-BHC	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
delta-BHC	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Heptachlor	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Aldrin	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Heptachlor epoxide	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Endosulfan I	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Dieldrin	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
4,4'-DDE	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Endrin	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Endosulfan II	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Endosulfan sulfate	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
4,4'-DDD	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Endrin aldehyde	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Endrin ketone	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
4,4'-DDT	ND		ug/Kg	51	10	292882	07/13/22	07/14/22	TRN
Methoxychlor	ND		ug/Kg	100	10	292882	07/13/22	07/14/22	TRN
Toxaphene	ND		ug/Kg	1,000	10	292882	07/13/22	07/14/22	TRN
Chlordane (Technical)	ND		ug/Kg	510	10	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
TCMX		DO	%REC	23-120	10	292882	07/13/22	07/14/22	TRN
Decachlorobiphenyl		DO	%REC	24-120	10	292882	07/13/22	07/14/22	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1221	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1232	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1242	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1248	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1254	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1260	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1262	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1268	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	77%		%REC	19-121	2	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

Sample ID: SP2-E	Lab ID: 465469-002	Collected: 07/08/22 11:25
	Matrix: Soil	

465469-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.8	0.94	292612	07/11/22	07/12/22	KLN
Arsenic	**3.9**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Barium	**68**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Beryllium	ND		mg/Kg	0.47	0.94	292612	07/11/22	07/18/22	KLN
Cadmium	ND		mg/Kg	0.47	0.94	292612	07/11/22	07/12/22	KLN
Chromium	**99**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Cobalt	**4.8**		mg/Kg	0.47	0.94	292612	07/11/22	07/12/22	KLN
Copper	**16**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Lead	**12**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Molybdenum	**1.6**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Nickel	**11**		mg/Kg	0.94	0.94	292612	07/11/22	07/18/22	KLN
Selenium	ND		mg/Kg	2.8	0.94	292612	07/11/22	07/12/22	KLN
Silver	ND		mg/Kg	0.47	0.94	292612	07/11/22	07/12/22	KLN
Thallium	ND		mg/Kg	2.8	0.94	292612	07/11/22	07/12/22	KLN
Vanadium	**66**		mg/Kg	0.94	0.94	292612	07/11/22	07/12/22	KLN
Zinc	**44**		mg/Kg	4.7	0.94	292612	07/11/22	07/18/22	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	292953	07/13/22	07/14/22	SBW
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	200	20	292945	07/14/22	07/15/22	MES
DRO C10-C28	**640**		mg/Kg	200	20	292945	07/14/22	07/15/22	MES
ORO C28-C44	**2,500**		mg/Kg	400	20	292945	07/14/22	07/15/22	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	20	292945	07/14/22	07/15/22	MES
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
beta-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
gamma-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
delta-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Heptachlor	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Aldrin	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Heptachlor epoxide	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endosulfan I	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Dieldrin	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
4,4'-DDE	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endrin	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endosulfan II	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Endosulfan sulfate	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
4,4'-DDD	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endrin aldehyde	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endrin ketone	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
4,4'-DDT	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Methoxychlor	ND		ug/Kg	100	10	292882	07/13/22	07/14/22	TRN
Toxaphene	ND		ug/Kg	1,000	10	292882	07/13/22	07/14/22	TRN
Chlordane (Technical)	ND		ug/Kg	500	10	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
TCMX		DO	%REC	23-120	10	292882	07/13/22	07/14/22	TRN
Decachlorobiphenyl		DO	%REC	24-120	10	292882	07/13/22	07/14/22	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1221	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1232	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1242	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1248	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1254	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1260	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1262	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1268	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	89%		%REC	19-121	2	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 465469

Sample ID: SP-3N	Lab ID: 465469-003	Collected: 07/08/22 11:22
	Matrix: Soil	

465469-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.96	292612	07/11/22	07/12/22	KLN
Arsenic	**3.6**		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Barium	**80**		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Beryllium	ND		mg/Kg	0.48	0.96	292612	07/11/22	07/18/22	KLN
Cadmium	ND		mg/Kg	0.48	0.96	292612	07/11/22	07/12/22	KLN
Chromium	**22**		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Cobalt	**8.2**		mg/Kg	0.48	0.96	292612	07/11/22	07/12/22	KLN
Copper	**21**		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Lead	**7.9**		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Molybdenum	ND		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Nickel	**11**		mg/Kg	0.96	0.96	292612	07/11/22	07/18/22	KLN
Selenium	ND		mg/Kg	2.9	0.96	292612	07/11/22	07/12/22	KLN
Silver	ND		mg/Kg	0.48	0.96	292612	07/11/22	07/12/22	KLN
Thallium	ND		mg/Kg	2.9	0.96	292612	07/11/22	07/12/22	KLN
Vanadium	**50**		mg/Kg	0.96	0.96	292612	07/11/22	07/12/22	KLN
Zinc	**44**		mg/Kg	4.8	0.96	292612	07/11/22	07/18/22	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	292953	07/13/22	07/14/22	SBW
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
DRO C10-C28	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
ORO C28-C44	**720**		mg/Kg	400	20	292945	07/14/22	07/14/22	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	20	292945	07/14/22	07/14/22	MES
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
beta-BHC	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
gamma-BHC	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
delta-BHC	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Heptachlor	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Aldrin	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Heptachlor epoxide	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Endosulfan I	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Dieldrin	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
4,4'-DDE	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Endrin	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Endosulfan II	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Endosulfan sulfate	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
4,4'-DDD	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Endrin aldehyde	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Endrin ketone	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
4,4'-DDT	ND		ug/Kg	49	9.8	292882	07/13/22	07/14/22	TRN
Methoxychlor	ND		ug/Kg	98	9.8	292882	07/13/22	07/14/22	TRN
Toxaphene	ND		ug/Kg	980	9.8	292882	07/13/22	07/14/22	TRN
Chlordane (Technical)	ND		ug/Kg	490	9.8	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
TCMX		DO	%REC	23-120	9.8	292882	07/13/22	07/14/22	TRN
Decachlorobiphenyl		DO	%REC	24-120	9.8	292882	07/13/22	07/14/22	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1221	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1232	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1242	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1248	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1254	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1260	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1262	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Aroclor-1268	ND		ug/Kg	98	2	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	99%		%REC	19-121	2	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

Sample ID: SP-4W	Lab ID: 465469-004	Collected: 07/08/22 11:20
	Matrix: Soil	

465469-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.2	1.1	292612	07/11/22	07/12/22	KLN
Arsenic	**3.9**		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Barium	**88**		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Beryllium	ND		mg/Kg	0.53	1.1	292612	07/11/22	07/18/22	KLN
Cadmium	ND		mg/Kg	0.53	1.1	292612	07/11/22	07/12/22	KLN
Chromium	**24**		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Cobalt	**9.1**		mg/Kg	0.53	1.1	292612	07/11/22	07/12/22	KLN
Copper	**23**		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Lead	**8.8**		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Molybdenum	ND		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Nickel	**15**		mg/Kg	1.1	1.1	292612	07/11/22	07/18/22	KLN
Selenium	ND		mg/Kg	3.2	1.1	292612	07/11/22	07/12/22	KLN
Silver	ND		mg/Kg	0.53	1.1	292612	07/11/22	07/12/22	KLN
Thallium	ND		mg/Kg	3.2	1.1	292612	07/11/22	07/12/22	KLN
Vanadium	**55**		mg/Kg	1.1	1.1	292612	07/11/22	07/12/22	KLN
Zinc	**51**		mg/Kg	5.3	1.1	292612	07/11/22	07/18/22	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	292953	07/13/22	07/14/22	SBW
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
DRO C10-C28	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
ORO C28-C44	**490**		mg/Kg	400	20	292945	07/14/22	07/14/22	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	20	292945	07/14/22	07/14/22	MES
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
beta-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
gamma-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
delta-BHC	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Heptachlor	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Aldrin	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Heptachlor epoxide	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endosulfan I	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Dieldrin	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
4,4'-DDE	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endrin	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endosulfan II	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Endosulfan sulfate	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
4,4'-DDD	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endrin aldehyde	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Endrin ketone	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
4,4'-DDT	ND		ug/Kg	50	10	292882	07/13/22	07/14/22	TRN
Methoxychlor	ND		ug/Kg	100	10	292882	07/13/22	07/14/22	TRN
Toxaphene	ND		ug/Kg	1,000	10	292882	07/13/22	07/14/22	TRN
Chlordane (Technical)	ND		ug/Kg	500	10	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
TCMX		DO	%REC	23-120	10	292882	07/13/22	07/14/22	TRN
Decachlorobiphenyl		DO	%REC	24-120	10	292882	07/13/22	07/14/22	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1221	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1232	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1242	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1248	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1254	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1260	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1262	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Aroclor-1268	ND		ug/Kg	100	2	292882	07/13/22	07/14/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	91%		%REC	19-121	2	292882	07/13/22	07/14/22	TRN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

Sample ID: HA-1	Lab ID: 465469-005	Collected: 07/08/22 12:05
	Matrix: Soil	

465469-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
DRO C10-C28	ND		mg/Kg	200	20	292945	07/14/22	07/14/22	MES
ORO C28-C44	ND		mg/Kg	400	20	292945	07/14/22	07/14/22	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	20	292945	07/14/22	07/14/22	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Freon 12	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Chloromethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Vinyl Chloride	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Bromomethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Chloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Trichlorofluoromethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Acetone	ND		ug/Kg	100	1	293019	07/15/22	07/15/22	TCN
Freon 113	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Methylene Chloride	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
MTBE	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
2-Butanone	ND		ug/Kg	100	1	293019	07/15/22	07/15/22	TCN
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
2,2-Dichloropropane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Chloroform	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Bromochloromethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1,1-Trichloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1-Dichloropropene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Carbon Tetrachloride	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Benzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Trichloroethene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2-Dichloropropane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Bromodichloromethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Dibromomethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
4-Methyl-2-Pentanone	ND		ug/Kg	8.2	1	293019	07/15/22	07/15/22	TCN
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Toluene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1,2-Trichloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Tetrachloroethene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Dibromochloromethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2-Dibromoethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Chlorobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Ethylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
m,p-Xylenes	ND		ug/Kg	10	1	293019	07/15/22	07/15/22	TCN
o-Xylene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Styrene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Bromoform	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Isopropylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2,3-Trichloropropane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Propylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Bromobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
2-Chlorotoluene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
4-Chlorotoluene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
tert-Butylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
sec-Butylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
para-Isopropyl Toluene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,3-Dichlorobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,4-Dichlorobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
n-Butylbenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2-Dichlorobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Hexachlorobutadiene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Naphthalene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	15	1	293019	07/15/22	07/15/22	TCN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Xylene (total)	ND		ug/Kg	5.0	1	293019	07/15/22	07/15/22	TCN
Surrogates				**Limits**					
Dibromofluoromethane	103%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane-d4	101%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN
Toluene-d8	102%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN
Bromofluorobenzene	105%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

Sample ID: HA-2	Lab ID: 465469-006	Collected: 07/08/22 12:25
	Matrix: Soil	

465469-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	20	2	292945	07/14/22	07/14/22	MES
DRO C10-C28	**900**		mg/Kg	20	2	292945	07/14/22	07/14/22	MES
ORO C28-C44	**830**		mg/Kg	40	2	292945	07/14/22	07/14/22	MES
Surrogates				**Limits**					
n-Triacontane	91%		%REC	70-130	2	292945	07/14/22	07/14/22	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Freon 12	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Vinyl Chloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromomethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Trichlorofluoromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Acetone	ND		ug/Kg	98	0.98	293019	07/15/22	07/15/22	TCN
Freon 113	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Methylene Chloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
MTBE	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
trans-1,2-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2-Butanone	ND		ug/Kg	98	0.98	293019	07/15/22	07/15/22	TCN
cis-1,2-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2,2-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloroform	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromochloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,1-Trichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Carbon Tetrachloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Benzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Trichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromodichloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Dibromomethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
4-Methyl-2-Pentanone	ND		ug/Kg	8.0	0.98	293019	07/15/22	07/15/22	TCN
cis-1,3-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Toluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
trans-1,3-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,2-Trichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Tetrachloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Dibromochloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dibromoethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Ethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
m,p-Xylenes	ND		ug/Kg	9.8	0.98	293019	07/15/22	07/15/22	TCN
o-Xylene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Styrene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromoform	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Isopropylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,3-Trichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Propylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3,5-Trimethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2-Chlorotoluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
4-Chlorotoluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
tert-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,4-Trimethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
sec-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
para-Isopropyl Toluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,4-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
n-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,4-Trichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Hexachlorobutadiene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Naphthalene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,3-Trichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	14	0.98	293019	07/15/22	07/15/22	TCN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Xylene (total)	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane-d4	99%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
Toluene-d8	103%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
Bromofluorobenzene	112%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

Sample ID: HA-3	Lab ID: 465469-007	Collected: 07/08/22 12:55
	Matrix: Soil	

465469-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.6	0.85	293896	07/28/22	07/29/22	SBW
Arsenic	**2.9**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Barium	**95**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Beryllium	ND		mg/Kg	0.43	0.85	293896	07/28/22	07/29/22	SBW
Cadmium	ND		mg/Kg	0.43	0.85	293896	07/28/22	07/29/22	SBW
Chromium	**26**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Cobalt	**8.8**		mg/Kg	0.43	0.85	293896	07/28/22	07/29/22	SBW
Copper	**20**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Lead	**17**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Molybdenum	**1.8**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Nickel	**18**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Selenium	ND		mg/Kg	2.6	0.85	293896	07/28/22	07/29/22	SBW
Silver	ND		mg/Kg	0.43	0.85	293896	07/28/22	07/29/22	SBW
Thallium	ND		mg/Kg	2.6	0.85	293896	07/28/22	07/29/22	SBW
Vanadium	**45**		mg/Kg	0.85	0.85	293896	07/28/22	07/29/22	SBW
Zinc	**140**		mg/Kg	4.3	0.85	293896	07/28/22	07/29/22	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	293904	07/28/22	07/29/22	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	250	25	292945	07/14/22	07/18/22	MES
DRO C10-C28	**13,000**		mg/Kg	250	25	292945	07/14/22	07/18/22	MES
ORO C28-C44	**5,800**		mg/Kg	500	25	292945	07/14/22	07/18/22	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	25	292945	07/14/22	07/18/22	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Freon 12	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Vinyl Chloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromomethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Trichlorofluoromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Acetone	ND		ug/Kg	98	0.98	293019	07/15/22	07/15/22	TCN
Freon 113	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Methylene Chloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
MTBE	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
trans-1,2-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2-Butanone	ND		ug/Kg	98	0.98	293019	07/15/22	07/15/22	TCN
cis-1,2-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2,2-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloroform	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromochloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,1-Trichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Carbon Tetrachloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Benzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Trichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromodichloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Dibromomethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
4-Methyl-2-Pentanone	ND		ug/Kg	8.0	0.98	293019	07/15/22	07/15/22	TCN
cis-1,3-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Toluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
trans-1,3-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,2-Trichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Tetrachloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Dibromochloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dibromoethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Ethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
m,p-Xylenes	ND		ug/Kg	9.8	0.98	293019	07/15/22	07/15/22	TCN
o-Xylene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Styrene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromoform	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Isopropylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,3-Trichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Propylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3,5-Trimethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2-Chlorotoluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
4-Chlorotoluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
tert-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,4-Trimethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
sec-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
para-Isopropyl Toluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,4-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
n-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,4-Trichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Hexachlorobutadiene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Naphthalene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,3-Trichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	14	0.98	293019	07/15/22	07/15/22	TCN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Xylene (total)	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Surrogates				**Limits**					
Dibromofluoromethane	106%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane-d4	102%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
Toluene-d8	100%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
Bromofluorobenzene	114%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 465469

Sample ID: HA-4	Lab ID: 465469-008	Collected: 07/08/22 13:05
	Matrix: Soil	

465469-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	10	1	292945	07/14/22	07/15/22	MES
DRO C10-C28	**290**		mg/Kg	10	1	292945	07/14/22	07/15/22	MES
ORO C28-C44	**180**		mg/Kg	20	1	292945	07/14/22	07/15/22	MES
Surrogates				**Limits**					
n-Triacontane	102%		%REC	70-130	1	292945	07/14/22	07/15/22	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Freon 12	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Chloromethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Vinyl Chloride	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Bromomethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Chloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Trichlorofluoromethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Acetone	ND		ug/Kg	100	1	293019	07/15/22	07/15/22	TCN
Freon 113	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Methylene Chloride	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
MTBE	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
trans-1,2-Dichloroethene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
2-Butanone	ND		ug/Kg	100	1	293019	07/15/22	07/15/22	TCN
cis-1,2-Dichloroethene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
2,2-Dichloropropane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Chloroform	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Bromochloromethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1,1-Trichloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1-Dichloropropene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Carbon Tetrachloride	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Benzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Trichloroethene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2-Dichloropropane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Bromodichloromethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Dibromomethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
4-Methyl-2-Pentanone	ND		ug/Kg	8.2	1	293019	07/15/22	07/15/22	TCN
cis-1,3-Dichloropropene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Toluene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
trans-1,3-Dichloropropene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1,2-Trichloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

465469-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Tetrachloroethene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Dibromochloromethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2-Dibromoethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Chlorobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Ethylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
m,p-Xylenes	ND		ug/Kg	10	1	293019	07/15/22	07/15/22	TCN
o-Xylene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Styrene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Bromoform	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Isopropylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2,3-Trichloropropane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Propylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Bromobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,3,5-Trimethylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
2-Chlorotoluene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
4-Chlorotoluene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
tert-Butylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2,4-Trimethylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
sec-Butylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
para-Isopropyl Toluene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,3-Dichlorobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,4-Dichlorobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
n-Butylbenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2-Dichlorobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2,4-Trichlorobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Hexachlorobutadiene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Naphthalene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
1,2,3-Trichlorobenzene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	15	1	293019	07/15/22	07/15/22	TCN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Xylene (total)	ND		ug/Kg	5.1	1	293019	07/15/22	07/15/22	TCN
Surrogates				**Limits**					
Dibromofluoromethane	104%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane-d4	104%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN
Toluene-d8	97%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN
Bromofluorobenzene	100%		%REC	70-145	1	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 465469

Sample ID: HA-5	Lab ID: 465469-009	Collected: 07/08/22 13:33
	Matrix: Soil	

465469-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	10	1	292945	07/14/22	07/14/22	MES
DRO C10-C28	**340**		mg/Kg	10	1	292945	07/14/22	07/14/22	MES
ORO C28-C44	**290**		mg/Kg	20	1	292945	07/14/22	07/14/22	MES
Surrogates				**Limits**					
n-Triacontane	89%		%REC	70-130	1	292945	07/14/22	07/14/22	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Freon 12	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Vinyl Chloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromomethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Trichlorofluoromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Acetone	ND		ug/Kg	98	0.98	293019	07/15/22	07/15/22	TCN
Freon 113	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Methylene Chloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
MTBE	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
trans-1,2-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2-Butanone	ND		ug/Kg	98	0.98	293019	07/15/22	07/15/22	TCN
cis-1,2-Dichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2,2-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chloroform	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromochloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,1-Trichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Carbon Tetrachloride	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Benzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Trichloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromodichloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Dibromomethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
4-Methyl-2-Pentanone	ND		ug/Kg	7.9	0.98	293019	07/15/22	07/15/22	TCN
cis-1,3-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Toluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
trans-1,3-Dichloropropene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,2-Trichloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 465469

465469-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Tetrachloroethene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Dibromochloromethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dibromoethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Chlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Ethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
m,p-Xylenes	ND		ug/Kg	9.8	0.98	293019	07/15/22	07/15/22	TCN
o-Xylene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Styrene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromoform	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Isopropylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,3-Trichloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Propylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Bromobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3,5-Trimethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
2-Chlorotoluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
4-Chlorotoluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
tert-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,4-Trimethylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
sec-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
para-Isopropyl Toluene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,3-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,4-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
n-Butylbenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,4-Trichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Hexachlorobutadiene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Naphthalene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
1,2,3-Trichlorobenzene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	14	0.98	293019	07/15/22	07/15/22	TCN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Xylene (total)	ND		ug/Kg	4.9	0.98	293019	07/15/22	07/15/22	TCN
Surrogates				**Limits**					
Dibromofluoromethane	101%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
1,2-Dichloroethane-d4	98%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
Toluene-d8	104%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN
Bromofluorobenzene	108%		%REC	70-145	0.98	293019	07/15/22	07/15/22	TCN

DO Diluted Out
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC999335**	**Batch: 292612**
Matrix: Soil	**Method: EPA 6010B**	**Prep Method: EPA 3050B**

QC999335 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	07/11/22	07/11/22
Arsenic	ND		mg/Kg	1.0	07/11/22	07/11/22
Barium	ND		mg/Kg	1.0	07/11/22	07/11/22
Beryllium	ND		mg/Kg	0.50	07/11/22	07/11/22
Cadmium	ND		mg/Kg	0.50	07/11/22	07/11/22
Chromium	ND		mg/Kg	1.0	07/11/22	07/11/22
Cobalt	ND		mg/Kg	0.50	07/11/22	07/11/22
Copper	ND		mg/Kg	1.0	07/11/22	07/11/22
Lead	ND		mg/Kg	1.0	07/11/22	07/11/22
Molybdenum	ND		mg/Kg	1.0	07/11/22	07/11/22
Nickel	ND		mg/Kg	1.0	07/11/22	07/11/22
Selenium	ND		mg/Kg	3.0	07/11/22	07/11/22
Silver	ND		mg/Kg	0.50	07/11/22	07/11/22
Thallium	ND		mg/Kg	3.0	07/11/22	07/11/22
Vanadium	ND		mg/Kg	1.0	07/11/22	07/11/22
Zinc	ND		mg/Kg	5.0	07/11/22	07/11/22

Type: Lab Control Sample	**Lab ID: QC999336**	**Batch: 292612**
Matrix: Soil	**Method: EPA 6010B**	**Prep Method: EPA 3050B**

QC999336 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	99.60	100.0	mg/Kg	100%		80-120
Arsenic	103.0	100.0	mg/Kg	103%		80-120
Barium	105.3	100.0	mg/Kg	105%		80-120
Beryllium	102.0	100.0	mg/Kg	102%		80-120
Cadmium	102.6	100.0	mg/Kg	103%		80-120
Chromium	105.3	100.0	mg/Kg	105%		80-120
Cobalt	106.6	100.0	mg/Kg	107%		80-120
Copper	98.77	100.0	mg/Kg	99%		80-120
Lead	107.4	100.0	mg/Kg	107%		80-120
Molybdenum	104.3	100.0	mg/Kg	104%		80-120
Nickel	106.2	100.0	mg/Kg	106%		80-120
Selenium	90.13	100.0	mg/Kg	90%		80-120
Silver	46.83	50.00	mg/Kg	94%		80-120
Thallium	104.3	100.0	mg/Kg	104%		80-120
Vanadium	100.3	100.0	mg/Kg	100%		80-120
Zinc	105.5	100.0	mg/Kg	106%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC999337	Batch:	292612
Matrix (Source ID):	Soil (465433-015)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC999337 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	41.56	ND	98.04	mg/Kg	42%	*	75-125	0.98
Arsenic	99.89	2.388	98.04	mg/Kg	99%		75-125	0.98
Barium	134.1	34.60	98.04	mg/Kg	101%		75-125	0.98
Beryllium	97.58	0.1692	98.04	mg/Kg	99%		75-125	0.98
Cadmium	97.22	ND	98.04	mg/Kg	99%		75-125	0.98
Chromium	112.4	12.86	98.04	mg/Kg	102%		75-125	0.98
Cobalt	100.7	3.544	98.04	mg/Kg	99%		75-125	0.98
Copper	100.4	4.372	98.04	mg/Kg	98%		75-125	0.98
Lead	100.6	1.646	98.04	mg/Kg	101%		75-125	0.98
Molybdenum	96.62	0.9806	98.04	mg/Kg	98%		75-125	0.98
Nickel	101.4	3.850	98.04	mg/Kg	100%		75-125	0.98
Selenium	85.81	ND	98.04	mg/Kg	88%		75-125	0.98
Silver	44.40	ND	49.02	mg/Kg	91%		75-125	0.98
Thallium	97.94	ND	98.04	mg/Kg	100%		75-125	0.98
Vanadium	123.0	25.03	98.04	mg/Kg	100%		75-125	0.98
Zinc	116.6	19.37	98.04	mg/Kg	99%		75-125	0.98

Type:	Matrix Spike Duplicate	Lab ID:	QC999338	Batch:	292612
Matrix (Source ID):	Soil (465433-015)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC999338 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	48.32	ND	108.7	mg/Kg	44%	*	75-125	5	41	1.1
Arsenic	109.4	2.388	108.7	mg/Kg	98%		75-125	1	35	1.1
Barium	147.9	34.60	108.7	mg/Kg	104%		75-125	2	20	1.1
Beryllium	105.6	0.1692	108.7	mg/Kg	97%		75-125	2	20	1.1
Cadmium	106.4	ND	108.7	mg/Kg	98%		75-125	1	20	1.1
Chromium	122.8	12.86	108.7	mg/Kg	101%		75-125	0	20	1.1
Cobalt	110.0	3.544	108.7	mg/Kg	98%		75-125	1	20	1.1
Copper	109.6	4.372	108.7	mg/Kg	97%		75-125	1	20	1.1
Lead	109.0	1.646	108.7	mg/Kg	99%		75-125	2	20	1.1
Molybdenum	104.8	0.9806	108.7	mg/Kg	96%		75-125	2	20	1.1
Nickel	111.3	3.850	108.7	mg/Kg	99%		75-125	1	20	1.1
Selenium	94.06	ND	108.7	mg/Kg	87%		75-125	1	20	1.1
Silver	48.88	ND	54.35	mg/Kg	90%		75-125	1	20	1.1
Thallium	107.2	ND	108.7	mg/Kg	99%		75-125	1	20	1.1
Vanadium	132.3	25.03	108.7	mg/Kg	99%		75-125	1	20	1.1
Zinc	128.6	19.37	108.7	mg/Kg	101%		75-125	1	20	1.1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC1003210**	**Batch: 293896**
Matrix: Soil	**Method: EPA 6010B**	**Prep Method: EPA 3050B**

QC1003210 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	07/28/22	07/29/22
Arsenic	ND		mg/Kg	1.0	07/28/22	07/29/22
Barium	ND		mg/Kg	1.0	07/28/22	07/29/22
Beryllium	ND		mg/Kg	0.50	07/28/22	07/29/22
Cadmium	ND		mg/Kg	0.50	07/28/22	07/29/22
Chromium	ND		mg/Kg	1.0	07/28/22	07/29/22
Cobalt	ND		mg/Kg	0.50	07/28/22	07/29/22
Copper	ND		mg/Kg	1.0	07/28/22	07/29/22
Lead	ND		mg/Kg	1.0	07/28/22	07/29/22
Molybdenum	ND		mg/Kg	1.0	07/28/22	07/29/22
Nickel	ND		mg/Kg	1.0	07/28/22	07/29/22
Selenium	ND		mg/Kg	3.0	07/28/22	07/29/22
Silver	ND		mg/Kg	0.50	07/28/22	07/29/22
Thallium	ND		mg/Kg	3.0	07/28/22	07/29/22
Vanadium	ND		mg/Kg	1.0	07/28/22	07/29/22
Zinc	ND		mg/Kg	5.0	07/28/22	07/29/22

Type: Lab Control Sample	**Lab ID: QC1003211**	**Batch: 293896**
Matrix: Soil	**Method: EPA 6010B**	**Prep Method: EPA 3050B**

QC1003211 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	90.55	100.0	mg/Kg	91%		80-120
Arsenic	101.1	100.0	mg/Kg	101%		80-120
Barium	100.6	100.0	mg/Kg	101%		80-120
Beryllium	90.61	100.0	mg/Kg	91%		80-120
Cadmium	98.41	100.0	mg/Kg	98%		80-120
Chromium	100.7	100.0	mg/Kg	101%		80-120
Cobalt	107.7	100.0	mg/Kg	108%		80-120
Copper	93.10	100.0	mg/Kg	93%		80-120
Lead	105.8	100.0	mg/Kg	106%		80-120
Molybdenum	99.62	100.0	mg/Kg	100%		80-120
Nickel	104.8	100.0	mg/Kg	105%		80-120
Selenium	87.79	100.0	mg/Kg	88%		80-120
Silver	51.02	50.00	mg/Kg	102%		80-120
Thallium	100.0	100.0	mg/Kg	100%		80-120
Vanadium	100.1	100.0	mg/Kg	100%		80-120
Zinc	105.7	100.0	mg/Kg	106%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1003212	Batch:	293896
Matrix (Source ID):	Soil (465469-007)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1003212 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	42.83	1.571	84.75	mg/Kg	49%	*	75-125	0.85
Arsenic	92.47	2.938	84.75	mg/Kg	106%		75-125	0.85
Barium	180.2	95.09	84.75	mg/Kg	100%		75-125	0.85
Beryllium	76.70	0.3293	84.75	mg/Kg	90%		75-125	0.85
Cadmium	87.03	ND	84.75	mg/Kg	103%		75-125	0.85
Chromium	109.8	26.16	84.75	mg/Kg	99%		75-125	0.85
Cobalt	95.85	8.843	84.75	mg/Kg	103%		75-125	0.85
Copper	107.2	19.58	84.75	mg/Kg	103%		75-125	0.85
Lead	102.1	16.75	84.75	mg/Kg	101%		75-125	0.85
Molybdenum	84.53	1.823	84.75	mg/Kg	98%		75-125	0.85
Nickel	101.1	17.59	84.75	mg/Kg	99%		75-125	0.85
Selenium	77.91	ND	84.75	mg/Kg	92%		75-125	0.85
Silver	44.54	ND	42.37	mg/Kg	105%		75-125	0.85
Thallium	85.36	1.756	84.75	mg/Kg	99%		75-125	0.85
Vanadium	132.6	45.36	84.75	mg/Kg	103%		75-125	0.85
Zinc	240.1	138.7	84.75	mg/Kg	120%		75-125	0.85

Type:	Matrix Spike Duplicate	Lab ID:	QC1003213	Batch:	293896
Matrix (Source ID):	Soil (465469-007)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1003213 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	27.78	1.571	84.75	mg/Kg	31%	*	75-125	43*	41	0.85
Arsenic	96.79	2.938	84.75	mg/Kg	111%		75-125	5	35	0.85
Barium	190.3	95.09	84.75	mg/Kg	112%		75-125	5	20	0.85
Beryllium	81.12	0.3293	84.75	mg/Kg	95%		75-125	6	20	0.85
Cadmium	90.73	ND	84.75	mg/Kg	107%		75-125	4	20	0.85
Chromium	114.4	26.16	84.75	mg/Kg	104%		75-125	4	20	0.85
Cobalt	100.5	8.843	84.75	mg/Kg	108%		75-125	5	20	0.85
Copper	109.9	19.58	84.75	mg/Kg	107%		75-125	2	20	0.85
Lead	107.6	16.75	84.75	mg/Kg	107%		75-125	5	20	0.85
Molybdenum	89.52	1.823	84.75	mg/Kg	103%		75-125	6	20	0.85
Nickel	105.4	17.59	84.75	mg/Kg	104%		75-125	4	20	0.85
Selenium	79.23	ND	84.75	mg/Kg	93%		75-125	2	20	0.85
Silver	46.97	ND	42.37	mg/Kg	111%		75-125	5	20	0.85
Thallium	89.28	1.756	84.75	mg/Kg	103%		75-125	4	20	0.85
Vanadium	138.1	45.36	84.75	mg/Kg	109%		75-125	4	20	0.85
Zinc	239.3	138.7	84.75	mg/Kg	119%		75-125	0	20	0.85

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1000369	**Batch:** 292953
Matrix: Miscell.	**Method:** EPA 7471A	**Prep Method:** METHOD

QC1000369 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	07/13/22	07/14/22

Type: Lab Control Sample	**Lab ID:** QC1000370	**Batch:** 292953
Matrix: Miscell.	**Method:** EPA 7471A	**Prep Method:** METHOD

QC1000370 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8248	0.8333	mg/Kg	99%		80-120

Type: Matrix Spike	**Lab ID:** QC1000371	**Batch:** 292953
Matrix (Source ID): Soil (465165-005)	**Method:** EPA 7471A	**Prep Method:** METHOD

QC1000371 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9918	0.07387	0.9434	mg/Kg	97%		75-125	1.1

Type: Matrix Spike Duplicate	**Lab ID:** QC1000372	**Batch:** 292953
Matrix (Source ID): Soil (465165-005)	**Method:** EPA 7471A	**Prep Method:** METHOD

QC1000372 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.9671	0.07387	0.9259	mg/Kg	96%		75-125	1	20	1.1

Type: Blank	**Lab ID:** QC1003246	**Batch:** 293904
Matrix: Soil	**Method:** EPA 7471A	**Prep Method:** METHOD

QC1003246 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	07/28/22	07/29/22

Type: Lab Control Sample	**Lab ID:** QC1003247	**Batch:** 293904
Matrix: Soil	**Method:** EPA 7471A	**Prep Method:** METHOD

QC1003247 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.7808	0.8333	mg/Kg	94%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1003248	Batch:	293904
Matrix (Source ID):	Soil (465469-007)	Method:	EPA 7471A	Prep Method:	METHOD

QC1003248 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.8671	ND	0.9434	mg/Kg	92%		75-125	1.1

Type:	Matrix Spike Duplicate	Lab ID:	QC1003249	Batch:	293904
Matrix (Source ID):	Soil (465469-007)	Method:	EPA 7471A	Prep Method:	METHOD

QC1003249 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.8606	ND	0.9091	mg/Kg	95%		75-125	3	20	1.1

Type:	Blank	Lab ID:	QC1000339	Batch:	292945
Matrix:	Soil	Method:	EPA 8015M	Prep Method:	EPA 3580

QC1000339 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	10	07/14/22	07/14/22
DRO C10-C28	ND		mg/Kg	10	07/14/22	07/14/22
ORO C28-C44	ND		mg/Kg	20	07/14/22	07/14/22
Surrogates				**Limits**		
n-Triacontane	108%		%REC	70-130	07/14/22	07/14/22

Type:	Lab Control Sample	Lab ID:	QC1000340	Batch:	292945
Matrix:	Soil	Method:	EPA 8015M	Prep Method:	EPA 3580

QC1000340 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	246.2	250.0	mg/Kg	98%		76-122
Surrogates						
n-Triacontane	9.481	10.00	mg/Kg	95%		70-130

Type:	Matrix Spike	Lab ID:	QC1000341	Batch:	292945
Matrix (Source ID):	Soil (465469-001)	Method:	EPA 8015M	Prep Method:	EPA 3580

QC1000341 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	673.5	459.5	250.0	mg/Kg	86%		62-126	20
Surrogates								
n-Triacontane	11.51		10.00	mg/Kg		DO	70-130	20

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1000342**	**Batch:**	**292945**
Matrix (Source ID):	**Soil (465469-001)**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580**

QC1000342 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	616.2	459.5	250.0	mg/Kg	63%		62-126	9	35	20
Surrogates										
n-Triacontane	19.67		10.00	mg/Kg		DO	70-130			20

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1000159	Batch: 292882
Matrix: Soil		

QC1000159 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546						
alpha-BHC	ND		ug/Kg	4.9	07/13/22	07/14/22
beta-BHC	ND		ug/Kg	4.9	07/13/22	07/14/22
gamma-BHC	ND		ug/Kg	4.9	07/13/22	07/14/22
delta-BHC	ND		ug/Kg	4.9	07/13/22	07/14/22
Heptachlor	ND		ug/Kg	4.9	07/13/22	07/14/22
Aldrin	ND		ug/Kg	4.9	07/13/22	07/14/22
Heptachlor epoxide	ND		ug/Kg	4.9	07/13/22	07/14/22
Endosulfan I	ND		ug/Kg	4.9	07/13/22	07/14/22
Dieldrin	ND		ug/Kg	4.9	07/13/22	07/14/22
4,4'-DDE	ND		ug/Kg	4.9	07/13/22	07/14/22
Endrin	ND		ug/Kg	4.9	07/13/22	07/14/22
Endosulfan II	ND		ug/Kg	4.9	07/13/22	07/14/22
Endosulfan sulfate	ND		ug/Kg	4.9	07/13/22	07/14/22
4,4'-DDD	ND		ug/Kg	4.9	07/13/22	07/14/22
Endrin aldehyde	ND		ug/Kg	4.9	07/13/22	07/14/22
Endrin ketone	ND		ug/Kg	4.9	07/13/22	07/14/22
4,4'-DDT	ND		ug/Kg	4.9	07/13/22	07/14/22
Methoxychlor	ND		ug/Kg	9.8	07/13/22	07/14/22
Toxaphene	ND		ug/Kg	98	07/13/22	07/14/22
Chlordane (Technical)	ND		ug/Kg	49	07/13/22	07/14/22
Surrogates				**Limits**		
TCMX	92%		%REC	23-120	07/13/22	07/14/22
Decachlorobiphenyl	98%		%REC	24-120	07/13/22	07/14/22
Method: EPA 8082 Prep Method: EPA 3546						
Aroclor-1016	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1221	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1232	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1242	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1248	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1254	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1260	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1262	ND		ug/Kg	49	07/13/22	07/14/22
Aroclor-1268	ND		ug/Kg	49	07/13/22	07/14/22
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	90%		%REC	19-121	07/13/22	07/14/22

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1000284**	**Batch:**	**292882**
Matrix:	**Soil**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1000284 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	49.30	50.00	ug/Kg	99%		22-129
beta-BHC	49.56	50.00	ug/Kg	99%		28-125
gamma-BHC	48.88	50.00	ug/Kg	98%		22-128
delta-BHC	48.77	50.00	ug/Kg	98%		24-131
Heptachlor	48.34	50.00	ug/Kg	97%		18-124
Aldrin	44.46	50.00	ug/Kg	89%		23-120
Heptachlor epoxide	48.55	50.00	ug/Kg	97%		26-120
Endosulfan I	48.65	50.00	ug/Kg	97%		25-126
Dieldrin	46.57	50.00	ug/Kg	93%		23-124
4,4'-DDE	46.98	50.00	ug/Kg	94%		28-121
Endrin	52.76	50.00	ug/Kg	106%		25-127
Endosulfan II	50.02	50.00	ug/Kg	100%		29-121
Endosulfan sulfate	48.25	50.00	ug/Kg	97%		30-121
4,4'-DDD	50.81	50.00	ug/Kg	102%		26-120
Endrin aldehyde	43.41	50.00	ug/Kg	87%		10-120
Endrin ketone	50.16	50.00	ug/Kg	100%		28-125
4,4'-DDT	50.04	50.00	ug/Kg	100%		22-125
Methoxychlor	52.77	50.00	ug/Kg	106%		28-130
Surrogates						
TCMX	40.07	50.00	ug/Kg	80%		23-120
Decachlorobiphenyl	48.57	50.00	ug/Kg	97%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1000285**	**Batch:**	**292882**
Matrix (Source ID):	**Soil (465469-004)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1000285 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	48.84	ND	50.00	ug/Kg	98%		46-120	10
beta-BHC	51.66	ND	50.00	ug/Kg	103%		41-120	10
gamma-BHC	49.08	ND	50.00	ug/Kg	98%		41-120	10
delta-BHC	51.62	ND	50.00	ug/Kg	103%		38-123	10
Heptachlor	52.77	ND	50.00	ug/Kg	106%		39-120	10
Aldrin	48.71	ND	50.00	ug/Kg	97%		34-120	10
Heptachlor epoxide	52.49	ND	50.00	ug/Kg	105%		43-120	10
Endosulfan I	50.99	ND	50.00	ug/Kg	102%		45-120	10
Dieldrin	47.25	ND	50.00	ug/Kg	95%		45-120	10
4,4'-DDE	50.94	ND	50.00	ug/Kg	102%		34-120	10
Endrin	55.82	ND	50.00	ug/Kg	112%		40-120	10
Endosulfan II	51.63	ND	50.00	ug/Kg	103%		41-120	10
Endosulfan sulfate	49.16	ND	50.00	ug/Kg	98%		42-120	10
4,4'-DDD	49.13	ND	50.00	ug/Kg	98%		41-120	10
Endrin aldehyde	43.63	ND	50.00	ug/Kg	87%		30-120	10
Endrin ketone	56.60	ND	50.00	ug/Kg	113%		45-120	10
4,4'-DDT	57.00	ND	50.00	ug/Kg	114%		35-127	10
Methoxychlor	69.43	ND	50.00	ug/Kg		DO	42-136	10
Surrogates								
TCMX	45.59		50.00	ug/Kg		DO	23-120	10
Decachlorobiphenyl	60.83		50.00	ug/Kg		DO	24-120	10

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1000286**	**Batch:**	**292882**
Matrix (Source ID):	**Soil (465469-004)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1000286 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	48.98	ND	50.00	ug/Kg	98%		46-120	0	30	10
beta-BHC	48.61	ND	50.00	ug/Kg	97%		41-120	6	30	10
gamma-BHC	50.03	ND	50.00	ug/Kg	100%		41-120	2	30	10
delta-BHC	51.71	ND	50.00	ug/Kg	103%		38-123	0	30	10
Heptachlor	52.33	ND	50.00	ug/Kg	105%		39-120	1	30	10
Aldrin	48.33	ND	50.00	ug/Kg	97%		34-120	1	30	10
Heptachlor epoxide	53.81	ND	50.00	ug/Kg	108%		43-120	2	30	10
Endosulfan I	51.99	ND	50.00	ug/Kg	104%		45-120	2	30	10
Dieldrin	46.36	ND	50.00	ug/Kg	93%		45-120	2	30	10
4,4'-DDE	49.60	ND	50.00	ug/Kg	99%		34-120	3	30	10
Endrin	54.62	ND	50.00	ug/Kg	109%		40-120	2	30	10
Endosulfan II	51.28	ND	50.00	ug/Kg	103%		41-120	1	30	10
Endosulfan sulfate	51.29	ND	50.00	ug/Kg	103%		42-120	4	30	10
4,4'-DDD	49.50	ND	50.00	ug/Kg	99%		41-120	1	30	10
Endrin aldehyde	45.02	ND	50.00	ug/Kg	90%		30-120	3	30	10
Endrin ketone	56.52	ND	50.00	ug/Kg	113%		45-120	0	30	10
4,4'-DDT	58.83	ND	50.00	ug/Kg	118%		35-127	3	30	10
Methoxychlor	76.55	ND	50.00	ug/Kg		DO	42-136		30	10
Surrogates										
TCMX	49.29		50.00	ug/Kg		DO	23-120			10
Decachlorobiphenyl	60.09		50.00	ug/Kg		DO	24-120			10

Type:	**Lab Control Sample**	**Lab ID:**	**QC1000287**	**Batch:**	**292882**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1000287 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	498.3	500.0	ug/Kg	100%		14-150
Aroclor-1260	469.2	500.0	ug/Kg	94%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	34.15	50.00	ug/Kg	68%		19-121

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1000288**	**Batch:**	**292882**
Matrix (Source ID):	**Soil (465321-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1000288 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	546.6	ND	500.0	ug/Kg	109%		42-127	2
Aroclor-1260	487.3	ND	500.0	ug/Kg	97%		38-130	2
Surrogates								
Decachlorobiphenyl (PCB)	33.44		50.00	ug/Kg	67%		19-121	2

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1000289**	**Batch:**	**292882**
Matrix (Source ID):	**Soil (465321-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1000289 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	414.6	ND	500.0	ug/Kg	83%		42-127	27	30	2
Aroclor-1260	410.8	ND	500.0	ug/Kg	82%		38-130	17	30	2
Surrogates										
Decachlorobiphenyl (PCB)	28.19		50.00	ug/Kg	56%		19-121			2

Type:	**Lab Control Sample**	**Lab ID:**	**QC1000590**	**Batch:**	**293019**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1000590 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	50.12	50.00	ug/Kg	100%		70-131
MTBE	44.42	50.00	ug/Kg	89%		69-130
Benzene	49.49	50.00	ug/Kg	99%		70-130
Trichloroethene	53.96	50.00	ug/Kg	108%		70-130
Toluene	53.45	50.00	ug/Kg	107%		70-130
Chlorobenzene	51.51	50.00	ug/Kg	103%		70-130
Surrogates						
Dibromofluoromethane	51.01	50.00	ug/Kg	102%		70-130
1,2-Dichloroethane-d4	48.92	50.00	ug/Kg	98%		70-145
Toluene-d8	52.04	50.00	ug/Kg	104%		70-145
Bromofluorobenzene	53.80	50.00	ug/Kg	108%		70-145

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1000591**	**Batch:**	**293019**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1000591 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	51.54	50.00	ug/Kg	103%		70-131	3	33
MTBE	45.77	50.00	ug/Kg	92%		69-130	3	30
Benzene	50.48	50.00	ug/Kg	101%		70-130	2	30
Trichloroethene	52.87	50.00	ug/Kg	106%		70-130	2	30
Toluene	51.49	50.00	ug/Kg	103%		70-130	4	30
Chlorobenzene	50.49	50.00	ug/Kg	101%		70-130	2	30
Surrogates								
Dibromofluoromethane	51.81	50.00	ug/Kg	104%		70-130		
1,2-Dichloroethane-d4	49.65	50.00	ug/Kg	99%		70-145		
Toluene-d8	51.46	50.00	ug/Kg	103%		70-145		
Bromofluorobenzene	53.27	50.00	ug/Kg	107%		70-145		

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Batch QC

Type:	**Blank**	**Lab ID:**	**QC1000594**	**Batch:**	**293019**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1000594 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	07/15/22	07/15/22
Freon 12	ND		ug/Kg	5.0	07/15/22	07/15/22
Chloromethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Vinyl Chloride	ND		ug/Kg	5.0	07/15/22	07/15/22
Bromomethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Chloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Trichlorofluoromethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Acetone	ND		ug/Kg	100	07/15/22	07/15/22
Freon 113	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1-Dichloroethene	ND		ug/Kg	5.0	07/15/22	07/15/22
Methylene Chloride	ND		ug/Kg	5.0	07/15/22	07/15/22
MTBE	ND		ug/Kg	5.0	07/15/22	07/15/22
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1-Dichloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
2-Butanone	ND		ug/Kg	100	07/15/22	07/15/22
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	07/15/22	07/15/22
2,2-Dichloropropane	ND		ug/Kg	5.0	07/15/22	07/15/22
Chloroform	ND		ug/Kg	5.0	07/15/22	07/15/22
Bromochloromethane	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1,1-Trichloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1-Dichloropropene	ND		ug/Kg	5.0	07/15/22	07/15/22
Carbon Tetrachloride	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2-Dichloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Benzene	ND		ug/Kg	5.0	07/15/22	07/15/22
Trichloroethene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2-Dichloropropane	ND		ug/Kg	5.0	07/15/22	07/15/22
Bromodichloromethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Dibromomethane	ND		ug/Kg	5.0	07/15/22	07/15/22
4-Methyl-2-Pentanone	ND		ug/Kg	8.1	07/15/22	07/15/22
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	07/15/22	07/15/22
Toluene	ND		ug/Kg	5.0	07/15/22	07/15/22
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1,2-Trichloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
1,3-Dichloropropane	ND		ug/Kg	5.0	07/15/22	07/15/22
Tetrachloroethene	ND		ug/Kg	5.0	07/15/22	07/15/22
Dibromochloromethane	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2-Dibromoethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Chlorobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
Ethylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
m,p-Xylenes	ND		ug/Kg	10	07/15/22	07/15/22
o-Xylene	ND		ug/Kg	5.0	07/15/22	07/15/22

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Batch QC

QC1000594 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Styrene	ND		ug/Kg	5.0	07/15/22	07/15/22
Bromoform	ND		ug/Kg	5.0	07/15/22	07/15/22
Isopropylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2,3-Trichloropropane	ND		ug/Kg	5.0	07/15/22	07/15/22
Propylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
Bromobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
2-Chlorotoluene	ND		ug/Kg	5.0	07/15/22	07/15/22
4-Chlorotoluene	ND		ug/Kg	5.0	07/15/22	07/15/22
tert-Butylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
sec-Butylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
para-Isopropyl Toluene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,3-Dichlorobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,4-Dichlorobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
n-Butylbenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2-Dichlorobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
Hexachlorobutadiene	ND		ug/Kg	5.0	07/15/22	07/15/22
Naphthalene	ND		ug/Kg	5.0	07/15/22	07/15/22
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	07/15/22	07/15/22
cis-1,4-Dichloro-2-butene	ND		ug/Kg	15	07/15/22	07/15/22
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	07/15/22	07/15/22
Xylene (total)	ND		ug/Kg	5.0	07/15/22	07/15/22
Surrogates				**Limits**		
Dibromofluoromethane	103%		%REC	70-130	07/15/22	07/15/22
1,2-Dichloroethane-d4	99%		%REC	70-145	07/15/22	07/15/22
Toluene-d8	100%		%REC	70-145	07/15/22	07/15/22
Bromofluorobenzene	101%		%REC	70-145	07/15/22	07/15/22

* Value is outside QC limits
DO Diluted Out
ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

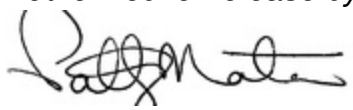
Lab Job Number:	466967
Report Level:	II
Report Date:	08/12/2022

Analytical Report *prepared for:*

Jackie Hyman
GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108

Location: GWS #9, SC1256

Authorized for release by:



Patty Mata, Project Manager
patty.mata@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

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Sample Summary

Jackie Hyman
GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108

Lab Job #: 466967
Location: GWS #9, SC1256
Date Received: 08/05/22

Sample ID	Lab ID	Collected	Matrix
EX_N-220805	466967-001	08/05/22 10:43	Soil
EX_S-220805	466967-002	08/05/22 10:32	Soil
EX_E-220805	466967-003	08/05/22 10:39	Soil
EX_W-220805	466967-004	08/05/22 10:35	Soil
EX_220805	466967-005	08/05/22 10:50	Soil
HA-4-220805	466967-006	08/05/22 13:40	Soil

Case Narrative

GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108
Jackie Hyman

Lab Job Number: 466967
Location: GWS #9, SC1256
Date Received: 08/05/22

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 08/05/22. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015M):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

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Chain of Custody Record — Lab No: 466967 — Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	C	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air, W = Water, SeaW = Sea Water, DW = Drinking Water, WP = Wipe, S = Soil, O = Oil, M = Other matrices (solid), L = Other matrices (aqueous)

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: 18.0/52 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Geosyntec Consultants	Quote #:	—
Report To:	Jackie Haasyman	Proj. Name:	GWS #9
Email:	JHaasyman@geosyntec.com	Proj. #:	SC1256
Address:	16644 W. Bernardo Dr, Suite 300	P.O. #:	—
	San Diego, CA.	Address:	867 E Norman Rd, SB, CA
Phone:	626-609-9525	Global ID:	—
Fax:	—	Sampled By:	Yousef Bentammine

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No.	Pres.	Diesel & Gasoline	Diesel Range Organics (DRO) EPA 8015M	TPH extended Range EPA 8015	VOCs EPA 8260
1	EX-N-220805	8/5/22	1043	S	1	Ice*		X		
2	EX-S-220805		1032					X		
3	EX-E-220805		1039					X		
4	EX-W-220805		1035					X		
5	EX-220805		1050					X		
6	HA-4-220805		1340						X	X
7										
8										
9										
10										

Test Instructions / Comments: • Hold Samples for additional analysis.

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Yousef Bentammine	Geosyntec/geologist	8/5/2022 / 1650
1 Received By:			EA	8/5/22 1650
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Geosyntec SD Project: GWS #9

Date Received: 8/5/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 10.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 5.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: Alena Sylvestrini Date: 8/5/22

Analysis Results for 466967

Jackie Hyman
GeoSyntec Consultants San Diego
2355 Northside Drive
Suite 250
San Diego, CA 92108

Lab Job #: 466967
Location: GWS #9, SC1256
Date Received: 08/05/22

Sample ID: EX_N-220805 **Lab ID: 466967-001** **Collected: 08/05/22 10:43**
Matrix: Soil

466967-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
DRO C10-C28	**29**		mg/Kg	10	1	294521	08/08/22	08/08/22	MES
Surrogates				**Limits**					
n-Triacontane	92%		%REC	70-130	1	294521	08/08/22	08/08/22	MES

Sample ID: EX_S-220805 **Lab ID: 466967-002** **Collected: 08/05/22 10:32**
Matrix: Soil

466967-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
DRO C10-C28	**27**		mg/Kg	20	2	294521	08/08/22	08/08/22	MES
Surrogates				**Limits**					
n-Triacontane	89%		%REC	70-130	2	294521	08/08/22	08/08/22	MES

Sample ID: EX_E-220805 **Lab ID: 466967-003** **Collected: 08/05/22 10:39**
Matrix: Soil

466967-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
DRO C10-C28	ND		mg/Kg	10	1	294521	08/08/22	08/08/22	MES
Surrogates				**Limits**					
n-Triacontane	80%		%REC	70-130	1	294521	08/08/22	08/08/22	MES

Sample ID: EX_W-220805 **Lab ID: 466967-004** **Collected: 08/05/22 10:35**
Matrix: Soil

466967-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
DRO C10-C28	**19**		mg/Kg	10	1	294521	08/08/22	08/08/22	MES
Surrogates				**Limits**					
n-Triacontane	72%		%REC	70-130	1	294521	08/08/22	08/08/22	MES

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466967

Sample ID: EX_220805	Lab ID: 466967-005	Collected: 08/05/22 10:50
	Matrix: Soil	

466967-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
DRO C10-C28	**15**		mg/Kg	10	1	294521	08/08/22	08/08/22	MES
Surrogates				**Limits**					
n-Triacontane	87%		%REC	70-130	1	294521	08/08/22	08/08/22	MES

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466967

Sample ID: HA-4-220805	Lab ID: 466967-006	Collected: 08/05/22 13:40
	Matrix: Soil	

466967-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C8-C10	ND		mg/Kg	100	10	294686	08/10/22	08/12/22	MES
DRO C10-C28	**2,300**		mg/Kg	100	10	294686	08/10/22	08/12/22	MES
ORO C28-C44	**1,300**		mg/Kg	200	10	294686	08/10/22	08/12/22	MES
Surrogates				**Limits**					
n-Triacontane	98%		%REC	70-130	10	294686	08/10/22	08/12/22	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Freon 12	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Chloromethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Vinyl Chloride	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Bromomethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Chloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Trichlorofluoromethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Acetone	ND		ug/Kg	100	1	294512	08/08/22	08/08/22	ILK
Freon 113	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1-Dichloroethene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Methylene Chloride	ND		ug/Kg	20	1	294512	08/08/22	08/08/22	ILK
MTBE	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1-Dichloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
2-Butanone	ND		ug/Kg	100	1	294512	08/08/22	08/08/22	ILK
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
2,2-Dichloropropane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Chloroform	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Bromochloromethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1,1-Trichloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1-Dichloropropene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Carbon Tetrachloride	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2-Dichloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Benzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Trichloroethene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2-Dichloropropane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Bromodichloromethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Dibromomethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Toluene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1,2-Trichloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466967

466967-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Tetrachloroethene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Dibromochloromethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2-Dibromoethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Chlorobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Ethylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
m,p-Xylenes	ND		ug/Kg	10	1	294512	08/08/22	08/08/22	ILK
o-Xylene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Styrene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Bromoform	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Isopropylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2,3-Trichloropropane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Propylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Bromobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
2-Chlorotoluene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
4-Chlorotoluene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
tert-Butylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
sec-Butylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
para-Isopropyl Toluene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,3-Dichlorobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,4-Dichlorobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
n-Butylbenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2-Dichlorobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Hexachlorobutadiene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Naphthalene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Xylene (total)	ND		ug/Kg	5.0	1	294512	08/08/22	08/08/22	ILK
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	1	294512	08/08/22	08/08/22	ILK
1,2-Dichloroethane-d4	97%		%REC	70-145	1	294512	08/08/22	08/08/22	ILK
Toluene-d8	99%		%REC	70-145	1	294512	08/08/22	08/08/22	ILK
Bromofluorobenzene	105%		%REC	70-145	1	294512	08/08/22	08/08/22	ILK

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1005194	Batch: 294521
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580

QC1005194 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
DRO C10-C28	ND		mg/Kg	10	08/08/22	08/08/22
Surrogates				**Limits**		
n-Triacontane	88%		%REC	70-130	08/08/22	08/08/22

Type: Lab Control Sample	Lab ID: QC1005195	Batch: 294521
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580

QC1005195 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	243.3	250.0	mg/Kg	97%		76-122
Surrogates						
n-Triacontane	8.625	10.00	mg/Kg	86%		70-130

Type: Matrix Spike	Lab ID: QC1005196	Batch: 294521
Matrix (Source ID): Soil (466931-004)	Method: EPA 8015M	Prep Method: EPA 3580

QC1005196 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	237.8	1.108	250.0	mg/Kg	95%		62-126	1
Surrogates								
n-Triacontane	8.288		10.00	mg/Kg	83%		70-130	1

Type: Matrix Spike Duplicate	Lab ID: QC1005197	Batch: 294521
Matrix (Source ID): Soil (466931-004)	Method: EPA 8015M	Prep Method: EPA 3580

QC1005197 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	228.0	1.108	250.0	mg/Kg	91%		62-126	4	35	1
Surrogates										
n-Triacontane	8.113		10.00	mg/Kg	81%		70-130			1

Type: Blank	Lab ID: QC1005607	Batch: 294686
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580

QC1005607 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	10	08/09/22	08/11/22
DRO C10-C28	ND		mg/Kg	10	08/09/22	08/11/22
ORO C28-C44	ND		mg/Kg	20	08/09/22	08/11/22
Surrogates				**Limits**		
n-Triacontane	109%		%REC	70-130	08/09/22	08/11/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1005608	Batch: 294686
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580

QC1005608 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	284.4	250.0	mg/Kg	114%		76-122
Surrogates						
n-Triacontane	10.95	10.00	mg/Kg	109%		70-130

Type: Matrix Spike	Lab ID: QC1005609	Batch: 294686
Matrix (Source ID): Soil (466976-001)	Method: EPA 8015M	Prep Method: EPA 3580

QC1005609 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	247.3	17.44	250.0	mg/Kg	92%		62-126	1
Surrogates								
n-Triacontane	8.550		10.00	mg/Kg	86%		70-130	1

Type: Matrix Spike Duplicate	Lab ID: QC1005610	Batch: 294686
Matrix (Source ID): Soil (466976-001)	Method: EPA 8015M	Prep Method: EPA 3580

QC1005610 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	248.9	17.44	250.0	mg/Kg	93%		62-126	1	35	1
Surrogates										
n-Triacontane	8.792		10.00	mg/Kg	88%		70-130			1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1005103**	**Batch:**	**294512**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1005103 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	08/08/22	08/08/22
Freon 12	ND		ug/Kg	5.0	08/08/22	08/08/22
Chloromethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Vinyl Chloride	ND		ug/Kg	5.0	08/08/22	08/08/22
Bromomethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Chloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Trichlorofluoromethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Acetone	ND		ug/Kg	100	08/08/22	08/08/22
Freon 113	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1-Dichloroethene	ND		ug/Kg	5.0	08/08/22	08/08/22
Methylene Chloride	ND		ug/Kg	20	08/08/22	08/08/22
MTBE	ND		ug/Kg	5.0	08/08/22	08/08/22
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1-Dichloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
2-Butanone	ND		ug/Kg	100	08/08/22	08/08/22
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	08/08/22	08/08/22
2,2-Dichloropropane	ND		ug/Kg	5.0	08/08/22	08/08/22
Chloroform	ND		ug/Kg	5.0	08/08/22	08/08/22
Bromochloromethane	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1,1-Trichloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1-Dichloropropene	ND		ug/Kg	5.0	08/08/22	08/08/22
Carbon Tetrachloride	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2-Dichloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Benzene	ND		ug/Kg	5.0	08/08/22	08/08/22
Trichloroethene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2-Dichloropropane	ND		ug/Kg	5.0	08/08/22	08/08/22
Bromodichloromethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Dibromomethane	ND		ug/Kg	5.0	08/08/22	08/08/22
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	08/08/22	08/08/22
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	08/08/22	08/08/22
Toluene	ND		ug/Kg	5.0	08/08/22	08/08/22
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1,2-Trichloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
1,3-Dichloropropane	ND		ug/Kg	5.0	08/08/22	08/08/22
Tetrachloroethene	ND		ug/Kg	5.0	08/08/22	08/08/22
Dibromochloromethane	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2-Dibromoethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Chlorobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
Ethylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
m,p-Xylenes	ND		ug/Kg	10	08/08/22	08/08/22
o-Xylene	ND		ug/Kg	5.0	08/08/22	08/08/22

ENTHALPY ANALYTICAL

Batch QC

QC1005103 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Styrene	ND		ug/Kg	5.0	08/08/22	08/08/22
Bromoform	ND		ug/Kg	5.0	08/08/22	08/08/22
Isopropylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2,3-Trichloropropane	ND		ug/Kg	5.0	08/08/22	08/08/22
Propylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
Bromobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
2-Chlorotoluene	ND		ug/Kg	5.0	08/08/22	08/08/22
4-Chlorotoluene	ND		ug/Kg	5.0	08/08/22	08/08/22
tert-Butylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
sec-Butylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
para-Isopropyl Toluene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,3-Dichlorobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,4-Dichlorobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
n-Butylbenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2-Dichlorobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
Hexachlorobutadiene	ND		ug/Kg	5.0	08/08/22	08/08/22
Naphthalene	ND		ug/Kg	5.0	08/08/22	08/08/22
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	08/08/22	08/08/22
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	08/08/22	08/08/22
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	08/08/22	08/08/22
Xylene (total)	ND		ug/Kg	5.0	08/08/22	08/08/22
Surrogates				**Limits**		
Dibromofluoromethane	98%		%REC	70-130	08/08/22	08/08/22
1,2-Dichloroethane-d4	98%		%REC	70-145	08/08/22	08/08/22
Toluene-d8	97%		%REC	70-145	08/08/22	08/08/22
Bromofluorobenzene	101%		%REC	70-145	08/08/22	08/08/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1005104	**Batch:** 294512
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5030B

QC1005104 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	45.65	50.00	ug/Kg	91%		70-131
MTBE	46.24	50.00	ug/Kg	92%		69-130
Benzene	49.12	50.00	ug/Kg	98%		70-130
Trichloroethene	49.66	50.00	ug/Kg	99%		70-130
Toluene	50.28	50.00	ug/Kg	101%		70-130
Chlorobenzene	49.51	50.00	ug/Kg	99%		70-130
Surrogates						
Dibromofluoromethane	51.59	50.00	ug/Kg	103%		70-130
1,2-Dichloroethane-d4	47.54	50.00	ug/Kg	95%		70-145
Toluene-d8	49.71	50.00	ug/Kg	99%		70-145
Bromofluorobenzene	51.13	50.00	ug/Kg	102%		70-145

Type: Lab Control Sample Duplicate	**Lab ID:** QC1005105	**Batch:** 294512
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5030B

QC1005105 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	44.14	50.00	ug/Kg	88%		70-131	3	33
MTBE	47.27	50.00	ug/Kg	95%		69-130	2	30
Benzene	47.43	50.00	ug/Kg	95%		70-130	4	30
Trichloroethene	47.23	50.00	ug/Kg	94%		70-130	5	30
Toluene	47.04	50.00	ug/Kg	94%		70-130	7	30
Chlorobenzene	47.09	50.00	ug/Kg	94%		70-130	5	30
Surrogates								
Dibromofluoromethane	52.18	50.00	ug/Kg	104%		70-130		
1,2-Dichloroethane-d4	48.07	50.00	ug/Kg	96%		70-145		
Toluene-d8	49.06	50.00	ug/Kg	98%		70-145		
Bromofluorobenzene	52.51	50.00	ug/Kg	105%		70-145		

ND Not Detected

APPENDIX G
Soil Vapor Sample Analytical Data

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

July 11, 2022

Jackie Hyman
Geosyntec Consultants, Inc.
2355 Northside Drive, Suite 250
San Diego, CA 92108

Dear Jackie:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for Geosyntec Consultants, Inc. on July 8, 2022. The study was performed at 807 E. Norman Rd., San Bernardino, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by hydraulically pushing soil gas probes to a depth of 5.0 feet below ground surface (bgs). An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location, an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in gas-tight syringes by drawing the sample through a luer-lock connection which connects the sampling probe and the vacuum pump. Samples were immediately injected into the gas chromatograph/purge and trap after collection. New tubing was used at each sampling point to prevent cross contamination.

All analyses were performed on a laboratory grade Agilent model 6890N gas chromatograph equipped with an Agilent model 5973N Mass Spectra Detector and Tekmar LSC 3100 Purge and Trap. A Restek column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Agilent's MS and chromatographic data collection and handling system.

Quality Assurance

5-Point Calibration
The initial five-point calibration consisted of 20, 50, 100, 200 and 500 ul injections of the calibration standard. A calibration factor on each analyte was generated using a best fit line method using the Agilent data system. If the r^2 factor generated from this line was not greater than 0.990, an additional five-point calibration would have been performed. Method reporting limits were calculated to be 1-1000 micrograms per cubic meter (ug/m^3) for the individual compounds.

A daily calibration check was performed using a pre-mixed standard supplied by Scotty Analyzed Gases. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter (ng/ul) and 0.25 ng/ul.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	Isobutane

Sample Replicates
A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Equipment Blanks
Blanks were run at the beginning of each workday and after calibrations. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas Leak Test
A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas. No Isobutane was found in any of the samples collected.

Purge Volume
The standard purge volume of three volumes was purged in accordance with the July 2015 DTSC/RWQCB Advisory for Active Soil Gas Investigations.

Shut-in Test
A shut-in test was conducted prior to purging or sampling each location to check for leaks in the above-ground sampling system. The system was evaluated to a minimum measured vacuum of 100 inches of water. The vacuum gauge was calibrated and sensitive enough to indicate a water pressure change of at least 0.5 inches.

Scope of Work

To achieve the objective of this investigation a total of 14 vapor samples were collected from 13 locations at the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Subsurface soil conditions at this site offered sampling flows at 0" water vacuum.

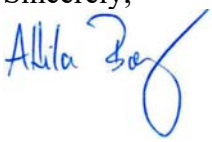
Results

During this vapor investigation, one sample contained 54 ug/m^3 of Tetrachloroethene (PCE). None of the other compounds listed in Table 1 above were detected above the listed reporting limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions, please contact me at (877) 764-5427.

Sincerely,



Attila Baly
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 807 E. Norman Rd., San Bernardino, CA
Lab Name: Optimal Technology
Date: 7/8/22
Analyst: A. Baly **Collector:** A. Baly
Inst. ID: Agilent 6890NF
Method: Modified EPA 8260B
Detector: Agilent 5973N Mass Spectrometer

SAMPLE ID	BLANK-1	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7
Sampling Depth (Ft.)	N/A	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Purge Volume (ml)	N/A	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Vacuum (in. of Water)	N/A	0	0	0	0	0	0	0
Injection Volume (ul)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)
Dichlorodifluoromethane	1000	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1000	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1000	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1000	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	30	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	4	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1000	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	2	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1000	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1000	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	200	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1000	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	3	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1000	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1000	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	30	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1000	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1000	ND	ND	ND	ND	ND	ND	ND	ND
TPH-g	5000	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1000	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit

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SOIL VAPOR RESULTS

Site Name: 807 E. Norman Rd., San Bernardino, CA
Lab Name: Optimal Technology
Date: 7/8/22
Analyst: A. Baly **Collector:** A. Baly
Inst. ID: Agilent 6890NF
Method: Modified EPA 8260B
Detector: Agilent 5973N Mass Spectrometer
Page: 2 of 2

SAMPLE ID	SV-8	SV-9	SV-10	SV-11	SV-12	SV-13	SV-13 Dup	
Sampling Depth (Ft.)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Purge Volume (ml)	1,500	1,500	1,500	1,500	1,500	1,500	1,500	
Vacuum (in. of Water)	0	0	0	0	0	0	0	
Injection Volume (ul)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	
Dilution Factor	1	1	1	1	1	1	1	

COMPOUND	REP. LIMIT	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	CONC (ug/m^3)	
Dichlorodifluoromethane	1000	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	1000	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	1000	ND	ND	ND	ND	ND	ND	ND	
Freon 113	1000	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	30	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	50	ND	ND	ND	ND	ND	ND	ND	
Chloroform	4	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	1000	ND	ND	ND	ND	ND	ND	ND	
Carbon Tetrachloride	2	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	3	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene (TCE)	10	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene (PCE)	10	**54**	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	10	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	1	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	1	ND	ND	ND	ND	ND	ND	ND	
Acetone	1000	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	1000	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	1000	ND	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	1000	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	200	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane	1000	ND	ND	ND	ND	ND	ND	ND	
Benzene	3	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-Pentanone	1000	ND	ND	ND	ND	ND	ND	ND	
Toluene	1000	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	1000	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	30	ND	ND	ND	ND	ND	ND	ND	
m/p-Xylene	1000	ND	ND	ND	ND	ND	ND	ND	
o-Xylene	1000	ND	ND	ND	ND	ND	ND	ND	
TPH-g	5000	ND	ND	ND	ND	ND	ND	ND	
Isobutane (Tracer Gas)	1000	ND	ND	ND	ND	ND	ND	ND	

Note: ND = Below Listed Reporting Limit

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CHAIN OF CUSTODY FORM

Site Name/Number		PO# / Project Ref#	
Site Address	**807 E. Norman Rd., San Bernardino, CA**		
Company Name			
Contact Person(s):		Phone#	Email:
Comments:			

				TESTS REQUIRED (please mark with an "X")			
Sample Identification	Sampling Device	Date Collected	Time Collected	**Soil Gas Mod 8260B**	**Soil Gas Mod 8021B**	**Soil Gas Mod 8015**	**Notes**
BLANK-1	Syringe	7/8/22	7:08 AM	x			
SV-1	Syringe	7/8/22	7:32 AM	x			
SV-2	Syringe	7/8/22	7:58 AM	x			
SV-3	Syringe	7/8/22	8:21 AM	x			
SV-4	Syringe	7/8/22	8:45 AM	x			
SV-5	Syringe	7/8/22	9:08 AM	x			
SV-6	Syringe	7/8/22	9:32 AM	x			
SV-7	Syringe	7/8/22	9:56 AM	x			
SV-8	Syringe	7/8/22	10:20 AM	x			
SV-9	Syringe	7/8/22	10:43 AM	x			
SV-10	Syringe	7/8/22	11:10 AM	x			
SV-11	Syringe	7/8/22	11:36 AM	x			
SV-12	Syringe	7/8/22	11:58 AM	x			
SV-13	Syringe	7/8/22	12:22 PM	x			
SV-13 Dup	Syringe	7/8/22	12:22 PM	x			

Collected & Tested by:

Attila Bo

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Appendix G:

Greenhouse Gas Analysis

Gateway South 9 Warehouse

GREENHOUSE GAS ANALYSIS

CITY OF SAN BERNARDINO

PREPARED BY:

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NOVEMBER 18, 2022

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LIST OF ABBREVIATED TERMS

%	Percent
°C	Degrees Celsius
°F	Degrees Fahrenheit
(1)	Reference
2017 Scoping Plan	*Final 2017 Scoping Plan Update*
AB	Assembly Bill
AB 32	Global Warming Solutions Act of 2006
AB 1493	Pavley Fuel Efficiency Standards
Annex I	Industrialized Nations
APA	Administrative Procedure Act
AQIA	*Gateway South 9 Warehouse Air Quality Impact Analysis*
BAU	Business as Usual
C_2F_6	Hexafluoroethane
C_2H_6	Ethane
$C_2H_2F_4$	Tetrafluroethane
$C_2H_4F_2$	Ethylidene Fluoride
CAA	Federal Clean Air Act
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CalSTA	California State Transportation Agency
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CBSC	California Building Standards Commission
CEC	California Energy Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CDFA	California Department of Food and Agriculture
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CFC-113	Trichlorotrifluoroethane

CH_4	Methane
City	City of San Bernardino
CNRA	California Natural Resources Agency
CNRA 2009	*2009 California Climate Adaptation Strategy*
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
Convention	United Nation's Framework Convention on Climate Change
COP	Conference of the Parties
CPUC	California Public Utilities Commission
CTC	California Transportation Commission
DOF	Department of Finance
DWR	Department of Water Resources
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
EV	Electric Vehicle
FED	Functional Equivalent Document
GCC	Global Climate Change
Gg	Gigagram
GHGA	Greenhouse Gas Analysis
GO-Biz	Governor's Office of Business and Economic Development
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWP	Global Warming Potential
H_2O	Water
HFC	Hydrofluorocarbons
HDT	Heavy-Duty Trucks
HFC-23	Fluoroform
HFC-134a	1,1,1,2-tetrafluoroethane
HFC-152a	1,1-difluoroethane
HHDT	Heavy-Heavy-Duty Trucks
hp	Horsepower
IBANK	California Infrastructure and Economic Development Bank
IPCC	Intergovernmental Panel on Climate Change
IRP	Integrated Resource Planning
ISO	Independent System Operator
ITE	Institute of Transportation Engineers
kWh	Kilowatt Hours
lbs	Pounds

LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCD	Liquid Crystal Display
LCFS	Low Carbon Fuel Standard or Executive Order S-01-07
LDA	Light-Duty Auto
LDT1/LDT2	Light-Duty Trucks
LEV III	Low-Emission Vehicle
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LULUCF	Land-Use, Land-Use Change and Forestry
MCY	Motorcycles
MD	Medium Duty
MDT	Medium-Duty Trucks
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Tucks
MMR	Mandatory Reporting Rule
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
mpg	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
$MMTCO_2e/yr$	Million Metric Ton of Carbon Dioxide Equivalent Per Year
MT/yr	Metric Tons Per Year
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
$MTCO_2e/yr$	Metric Ton of Carbon Dioxide Equivalent Per Year
MW	Megawatts
MWh	Megawatts Per Hour
MWELO	California Department of Water Resources' Model Water Efficient
N_2O	Nitrous Oxide
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride
NHTSA	National Highway Traffic Safety Administration
NIOSH	National Institute for Occupational Safety and Health
NO_X	Nitrogen Oxides
Non-Annex I	Developing Nations
OAL	Office of Administrative Law
OPR	Office of Planning and Research
PFC	Perfluorocarbons
ppb	Parts Per Billion

ppm	Parts Per Million
ppt	Parts Per Trillion
Project	Gateway South 9 Warehouse
RTP	Regional Transportation Plan
SAFE	Safer Affordable Fuel-Efficient Vehicles Rule
SB	Senate Bill
SB 32	California Global Warming Solutions Act of 2006
SB 375	Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies
SB 1078	Renewable Portfolio Standards
SB 1368	Statewide Retail Provider Emissions Performance Standards
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
Scoping Plan	California Air Resources Board Climate Change Scoping Plan
SCS	Sustainable Communities Strategy
sf	Square Feet
SF_6	Sulfur Hexaflouride
SGC	Strategic Growth Council
SHGC	Solar Heat Gain Coefficient
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
SWCRB	State Water Resources Control Board
TDM	Transportation Demand Measures
Title 20	Appliance Energy Efficiency Standards
Title 24	California Building Code
U.N.	United Nations
U.S.	United States
UNFCCC	United Nations' Framework Convention on Climate Change
URBEMIS	Urban Emissions
UTR	Utility Tractors
VFP	Vehicle Fueling Positions
VMT	Vehicle Miles Traveled
WCI	Western Climate Initiative
WRI	World Resources Institute
ZE/NZE	Zero and Near-Zero Emissions

ZEV	Zero-Emissions Vehicles

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Gateway South 9 Warehouse Greenhouse Gas Analysis* (GHGA) is summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for potential greenhouse gas (GHG) impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
GHG Impact #1: Would the Project generate GHG emissions either directly or indirectly, that may have a significant impact on the environment?	4.7	*Less Than Significant*	*n/a*
GHG Impact #2: Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?	4.7	*Less Than Significant*	*n/a*

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of GHG emissions include:

- Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32) (2).
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (Senate Bill [SB] 375) (3).
- Pavley Fuel Efficiency Standards (AB 1493). Establishes fuel efficiency ratings for new vehicles (4).
- California Building Code (Title 24 California Code of Regulations [CCR]). Establishes energy efficiency requirements for new construction (5).
- Appliance Energy Efficiency Standards (Title 20 CCR). Establishes energy efficiency requirements for appliances (6).
- Low Carbon Fuel Standard (LCFS). Requires carbon content of fuel sold in California to be 10 percent (%) less by 2020 (7).
- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (8).

- Renewable Portfolio Standards (RPS) Required electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20% by 2010 and 33% by 2020. SB 350 mandated a 50% RPS by 2030. SB 100 increased the RPS requirements to 60% by 2030 with new interim targets of 44% by 2024 and 52% by 2027 (9).
- California Global Warming Solutions Act of 2006 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (10).
- SCAQMD Rule 2305. The SCAQMD adopted Rule 2305, the Warehouse Indirect Source Rule, on May 7, 2021. Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce nitrogen oxides (NO_X) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities.

Promulgated regulations that would affect the Project's emissions are accounted for in the Project's GHG calculations provided in this report. In particular, AB 1493, LCFS, and RPS, and therefore are accounted for in the Project's emission calculations.

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1 INTRODUCTION

This report presents the results of the GHGA prepared by Urban Crossroads, Inc., for the proposed Gateway South 9 Warehouse (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the Project.

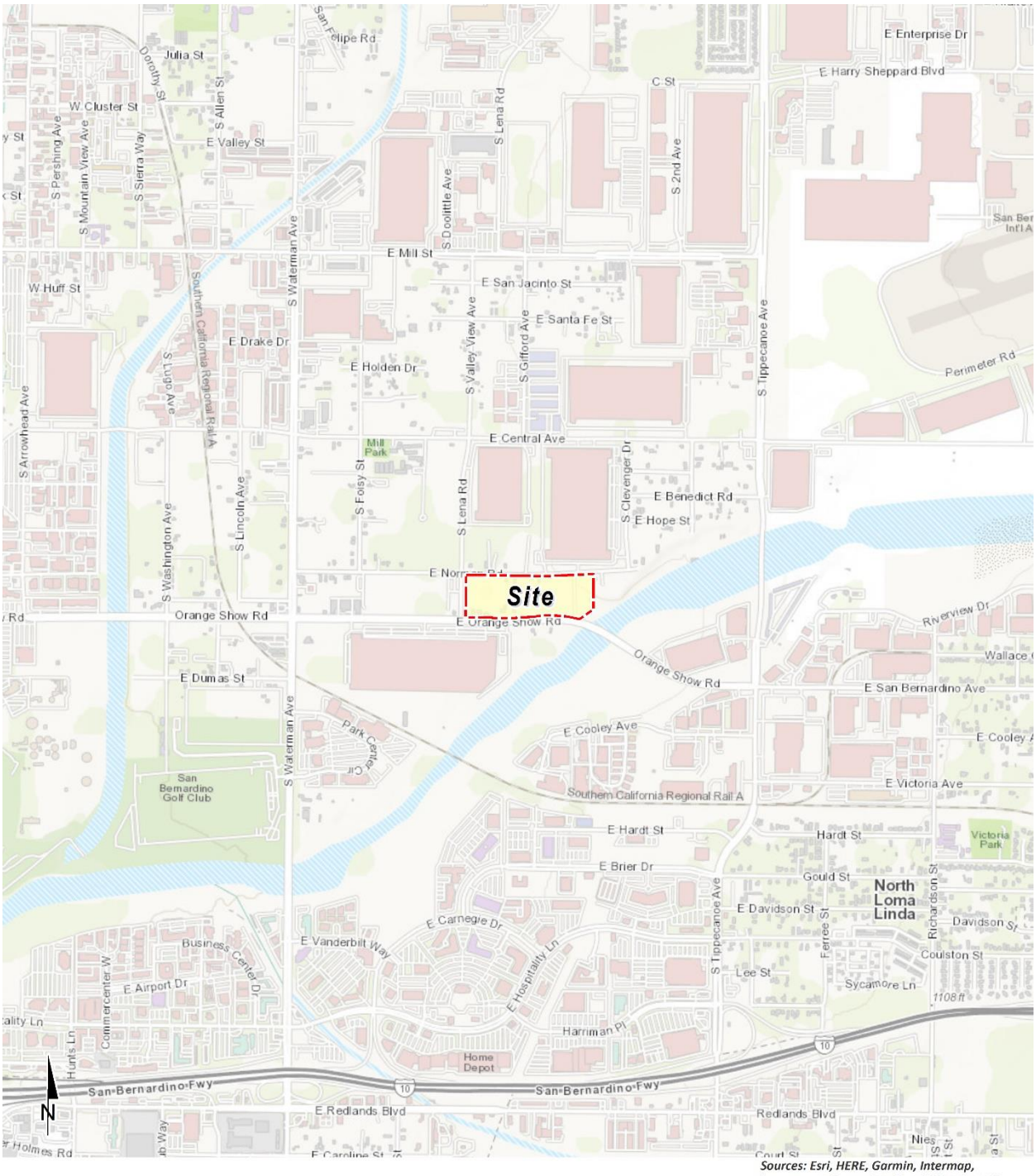
1.1 SITE LOCATION

The proposed Project is located at the southeast corner of Lena Road and Norman Road in the City of San Bernardino, as shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of the development of a 397,400 square foot (sf) high-cube transload and short-term warehouse building, as shown on Exhibit 1-B. The anticipated Project opening year is 2024.

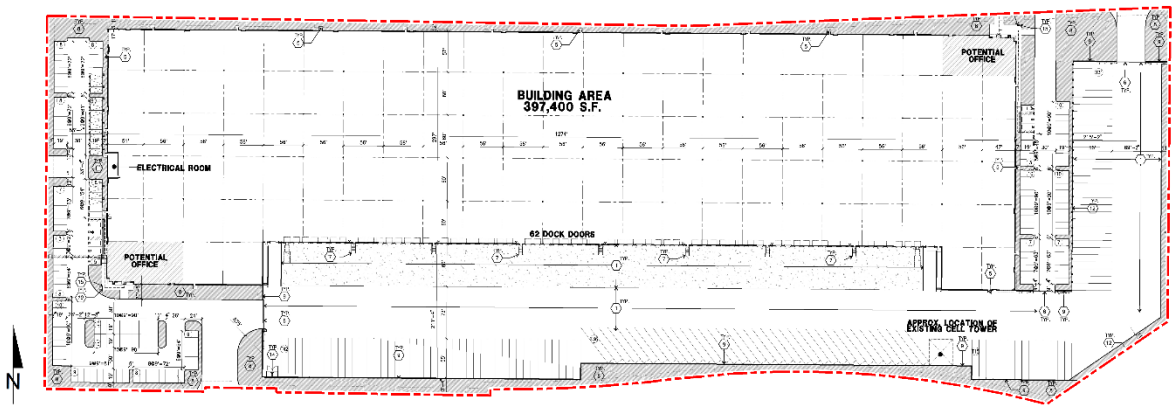
EXHIBIT 1-A: LOCATION MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS

LEGEND:

EXHIBIT 1-B: SITE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE (GCC)

GCC is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the Project evaluated in this GHGA cannot generate enough GHG emissions to affect a discernible change in global climate. However, the Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 4.0 will evaluate the potential for the Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation, and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radioactive heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GHGS

2.3.1 GHGS AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties and as discussed in Table 2-1. For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated (see Table 4-1 later in this report) because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these

fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GHGS

GHGs	Description	Sources	Health Effects
Water	Water is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. Climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to 'hold' more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop would continue is unknown as there are also dynamics that hold the positive	The main source of water vapor is evaporation from the oceans (approximately 85%). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.	There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.

GHGs	Description	Sources	Health Effects
	feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it would eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (11).		
CO_2	CO_2 is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO_2 concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30%. Left unchecked, the concentration of CO_2 in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (12).	CO_2 is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. CO_2 is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (13).	Outdoor levels of CO_2 are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of CO_2 can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of CO_2 in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000 ppm averaged over a 15-minute period (14).

GHGs	Description	Sources	Health Effects
CH_4	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than CO_2 and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	CH_4 in the atmosphere is generated by many different sources, such as fossil fuel production, transport and use, from the decay of organic matter in wetlands, and as a byproduct of digestion by ruminant animals such as cows. Determining which specific sources are responsible for variations in annual increases of CH_4 is complex, but scientists estimate that fossil fuel production and use contributes roughly 30% of the total CH_4 emissions. These industrial sources of CH_4 are relatively simple to pinpoint and control using current technology (15).	CH_4 is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to elevated levels of CH_4 can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
N_2O	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions)	N_2O can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (16).

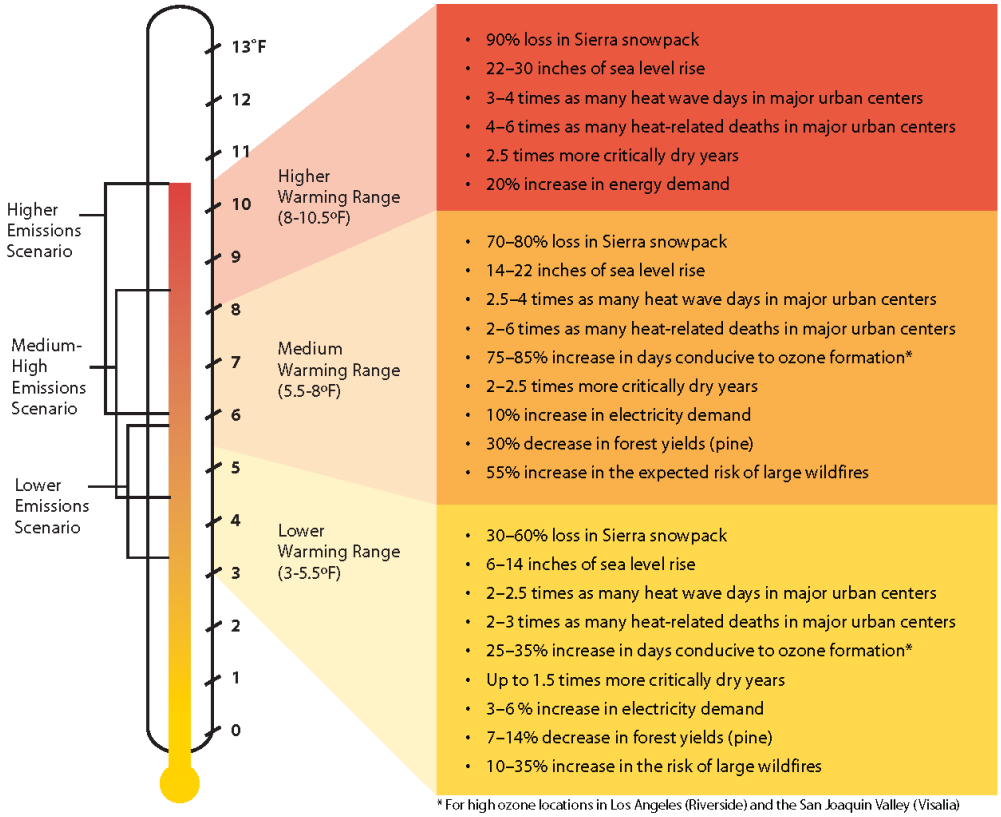
GHGs	Description	Sources	Health Effects
		also contribute to its atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream bottles. It is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars. N_2O can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (16).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in CH_4 or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	CFCs have no natural source. They are found in aerosol sprays, blowing agents for foams and packing materials, as solvents, and as refrigerants. (17).	In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.
HFCs	HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), Fluoroform (HFC-23), 1,1,1,2-tetrafluoroethane (HFC-134a), and 1,1-difluoroethane (HFC-152a). Prior to 1990, the only significant emissions were of HFC-23. HCF-134a emissions are increasing due to its use as a refrigerant.	HFCs are manmade for applications such as automobile air conditioners and refrigerants.	No health effects are known to result from exposure to HFCs.

GHGs	Description	Sources	Health Effects
PFCs	PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have exceptionally long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). The EPA estimates that concentrations of CF_4 in the atmosphere are over 70 parts per trillion (ppt).	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.	No health effects are known to result from exposure to PFCs.
SF_6	SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (18). The EPA indicates that concentrations in the 1990s were about 4 ppt.	SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.	In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.

GHGs	Description	Sources	Health Effects
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF_3 has a 100-year GWP of 17,200 (19).	NF_3 is used in industrial processes and is produced in the manufacturing of semiconductors, Liquid Crystal Display (LCD) panels, types of solar panels, and chemical lasers.	Long-term or repeated exposure may affect the liver and kidneys and may cause fluorosis (20).

The potential health effects related directly to the emissions of CO_2, CH_4, and N_2O as they relate to development projects such as the Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth's ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Scientists also purport those higher ambient temperatures would increase disease survival rates and result in more widespread disease. Climate change would likely cause shifts in weather patterns, potentially resulting in devastating droughts and food shortages in some areas (21). Exhibit 2-A presents the potential impacts of global warming (22).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." *University of California, Agriculture and Natural Resources*, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. GWP of a GHG indicates the amount of warming a gas cause over a given period of time and represents the potential of a gas to trap heat in the atmosphere. CO_2 is utilized as the reference gas for GWP, and thus has a GWP of 1. CO_2 equivalent (CO_2e) is a term used for describing the difference GHGs in a common unit. CO_2e signifies the amount of CO_2 which would have the equivalent GWP.

The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the 2nd Assessment Report, the Intergovernmental Panel on Climate Change (IPCC)'s scientific and socio-economic assessment on climate change, range from 1 for CO_2 to 23,900 for SF_6 and GWP for the IPCC's 5th Assessment Report range from 1 for CO_2 to 23,500 for SF_6 (23).

TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	GWP (100-year time horizon)	
		2nd Assessment Report	5th Assessment Report
CO_2	See*	1	1
CH_4	12 .4	21	28
N_2O	121	310	265
HFC-23	222	11,700	12,400
HFC-134a	13.4	1,300	1,300
HFC-152a	1.5	140	138
SF_6	3,200	23,900	23,500

*As per Appendix 8.A. of IPCC's 5th Assessment Report, no single lifetime can be given.
Source: Table 2.14 of the IPCC Fourth Assessment Report, 2007

2.5 GHG EMISSIONS INVENTORIES

2.5.1 GLOBAL

Worldwide anthropogenic GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2018. Based on the latest available data, the sum of these emissions totaled approximately 28,768,440 gigagram (Gg) CO_2e[1] (24) (25) as summarized on Table 2-3.

[1] The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2018 data, the United Nations' Framework Convention on Climate Change (UNFCCC) data for the most recent year were used U.N. Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014 and 2010, respectively.

2.5.2 UNITED STATES

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2018.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION [2]

Emitting Countries	GHG Emissions (Gg CO_2e)
China	12,300,200
United States	6,676,650
European Union (28-member countries)	4,232,274
Russian Federation	2,220,123
India	2,100,850
Japan	1,238,343
Total	**28,768,440**

2.5.3 STATE OF CALIFORNIA

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls but is still a substantial contributor to the United States (U.S.) emissions inventory total (26). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2021 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2019 GHG emissions period, California emitted an average 418.2 million metric tons of CO_2e per year ($MMTCO_2e/yr$) or 418,200 Gg CO_2e (6.26% of the total United States GHG emissions) (27).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

2.6.1 PUBLIC HEALTH

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35% under the lower warming range to 75 to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. Based on *Our Changing Climate Assessing the Risks to California by the California Climate Change Center*, large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced (28).

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a

[2] Used http://unfccc.int data for Annex I countries. Consulted the CAIT Climate Data Explorer in https://www.climatewatchdata.org site to reference Non-Annex I countries of China and India.

significant increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

2.6.2 WATER RESOURCES

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90%. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

2.6.3 AGRICULTURE

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25% of the water supply needed. Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits, and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

2.6.4 FORESTS AND LANDSCAPES

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks would not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90% due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80% by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

2.6.5 RISING SEA LEVELS

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 REGULATORY SETTING

2.7.1 INTERNATIONAL

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

IPCC

In 1988, the United Nations (U.N.) and the World Meteorological Organization established the IPCC to assess the scientific, technical, and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

UNITED NATION'S FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)

On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the UNFCCC, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

INTERNATIONAL CLIMATE CHANGE TREATIES

The Kyoto Protocol is an international agreement linked to the UNFCCC. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at an average of 5% against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the UN Climate Change Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2 degrees Celsius (°C) above pre-industrial levels, subject to a review in 2015. The Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings gradually gained consensus among participants on individual climate change issues.

On September 23, 2014, more than 100 Heads of State and Government and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the U.N. At the Summit, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the UNFCCC reached a landmark agreement on December 12, 2015, in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2°C, while urging efforts to limit the increase to 1.5 degrees;
- Establish binding commitments by all parties to make "nationally determined contributions" (NDCs), and to pursue domestic measures aimed at achieving them;
- Commit all countries to report regularly on their emissions and "progress made in implementing and achieving" their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they would "represent a progression" beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing $100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;
- Extend a mechanism to address "loss and damage" resulting from climate change, which explicitly would not "involve or provide a basis for any liability or compensation;"
- Require parties engaging in international emissions trading to avoid "double counting;" and
- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country's NDC (C2ES 2015a) (29).

Following President Biden's day one executive order, the United States officially rejoined the landmark Paris Agreement on February 19, 2021, positioning the country to once again be part of the global climate solution. Meanwhile, city, state, business, and civic leaders across the country and around the world have been ramping up efforts to drive the clean energy advances needed to meet the goals of the agreement and put the brakes on dangerous climate change.

2.7.2 NATIONAL

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG ENDANGERMENT

In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the United States Supreme Court (Supreme Court) found that four GHGs, including CO_2, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Supreme Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned

decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under section 202(a) of the CAA:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs— CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section "Clean Vehicles" below. After a lengthy legal challenge, the Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (30).

CLEAN VEHICLES

Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the U.S. On April 1, 2010, the EPA, and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012. The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO_2 in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks (HDT) and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20% reduction in CO_2 emissions and fuel consumption by the 2018 model year. For HDT and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10% reduction for gasoline vehicles and a 15% reduction for diesel vehicles by the 2018 model year (12 and 17% respectively if

accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10% reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which declared that the MY 2022-2025 GHG standards are not appropriate and should be revised (31). This Final Determination serves to initiate a notice to further consider appropriate standards for MY 2022-2025 light-duty vehicles. On August 2, 2018, the NHTSA in conjunction with the EPA, released a notice of proposed rulemaking, the *Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks* (SAFE Vehicles Rule). The SAFE Vehicles Rule was proposed to amend existing Corporate Average Fuel Economy (CAFE) and tailpipe CO_2 standards for passenger cars and light trucks and to establish new standards covering model years 2021 through 2026. As of March 31, 2020, the NHTSA and EPA finalized the SAFE Vehicle Rule which increased stringency of CAFE and CO_2 emissions standards by 1.5% each year through model year 2026 (32). On December 21, 2021, after reviewing all the public comments submitted on NHTSA's April 2021 Notice of Proposed Rulemaking, NHTSA finalizes the CAFE Preemption rulemaking to withdraw its portions of the so-called SAFE I Rule. The final rule concludes that the SAFE I Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important state and local interests. The final rule ensures that the SAFE I Rule will no longer form an improper barrier to states exploring creative solutions to address their local communities' environmental and public health challenges (33).

On March 31, 2022, NHTSA finalized CAFE standards for MY 2024-2026. The standards for passenger cars and light trucks for MYs 2024-2025 were increased at a rate of 8% per year and then increased at a rate of 10% per year for MY 2026 vehicles. NHTSA currently projects that the revised standards would require an industry fleet-wide average of roughly 49 mpg in MY 2026 and would reduce average fuel outlays over the lifetimes of affected vehicles that provide consumers hundreds of dollars in net savings. These standards are directly responsive to the agency's statutory mandate to improve energy conservation and reduce the nation's energy dependence on foreign sources (34).

MANDATORY REPORTING OF GHGS

The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons per year (MT/yr) or more of GHG emissions are required to submit annual reports to the EPA.

NEW SOURCE REVIEW

The EPA issued a final rule on May 13, 2010, that establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V

Operating Permit programs are required for new and existing industrial facilities. This final rule "tailors" the requirements of these CAA permitting programs to limit which facilities would be required to obtain Prevention of Significant Deterioration and Title V permits. In the preamble to the revisions to the Federal Code of Regulations, the EPA states:

> *"This rulemaking is necessary because without it the Prevention of Significant Deterioration and Title V requirements would apply, as of January 2, 2011, at the 100 or 250 tons per year levels provided under the CAA, greatly increasing the number of required permits, imposing undue costs on small sources, overwhelming the resources of permitting authorities, and severely impairing the functioning of the programs. EPA is relieving these resource burdens by phasing in the applicability of these programs to GHG sources, starting with the largest GHG emitters. This rule establishes two initial steps of the phase-in. The rule also commits the agency to take certain actions on future steps addressing smaller sources but excludes certain smaller sources from Prevention of Significant Deterioration and Title V permitting for GHG emissions until at least April 30, 2016."*

The EPA estimates that facilities responsible for nearly 70% of the national GHG emissions from stationary sources would be subject to permitting requirements under this rule. This includes the nation's largest GHG emitters—power plants, refineries, and cement production facilities.

STANDARDS OF PERFORMANCE FOR GHG EMISSIONS FOR NEW STATIONARY SOURCES: ELECTRIC UTILITY GENERATING UNITS

As required by a settlement agreement, the EPA proposed new performance standards for emissions of CO_2 for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts (MW) would be required to meet an output-based standard of 1,000 pounds (lbs) of CO_2 per MW-hour (MWh), based on the performance of widely used natural gas combined cycle technology. It should be noted that on February 9, 2016, the Supreme Court issued a stay of this regulation pending litigation. Additionally, the current EPA Administrator has also signed a measure to repeal the Clean Power Plan, including the CO_2 standards. The Clean Power Plan was officially repealed on June 19, 2019, when the EPA issued the final Affordable Clean Energy rule (ACE). Under ACE, new state-specific emission guidelines were established that provided existing coal-fired electric utility generating units with achievable standards.

On January 19, 2021, the D.C. Circuit Court of Appeals ruled that the EPA's ACE Rule for GHG emissions from power plants rested on an erroneous interpretation of the CAA that barred EPA from considering measures beyond those that apply at and to an individual source. The court therefore vacated and remanded the ACE Rule and adopted a replacement rule which regulates CO_2 emissions from existing power plants, potentially again considering generation shifting and other measures to more aggressively target power sector emissions.

CAP-AND-TRADE

Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. Successful examples in the U.S. include the Acid Rain Program and the N_2O Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps CO_2 emissions from power plants, auctions CO_2 emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008 and in 2020 has retained all participating states.

The Western Climate Initiative (WCI) partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15% below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec's cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015. While the WCI has yet to publish whether it has successfully reached the 2020 emissions goal initiative set in 2007, SB 32 requires that California, a major partner in the WCI, adopt the goal of reducing statewide GHG emissions to 40% below the 1990 level by 2030.

SMARTWAY PROGRAM

The SmartWay Program is a public-private initiative between the EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other federal and state agencies. Its purpose is to improve fuel efficiency and the environmental performance (reduction of both GHG emissions and air pollution) of the goods movement supply chains. SmartWay is comprised of four components (35):

1. SmartWay Transport Partnership: A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption, and improve performance annually.
2. SmartWay Technology Program: A testing, verification, and designation program to help freight companies identify equipment, technologies, and strategies that save fuel and lower emissions.
3. SmartWay Vehicles: A program that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.
4. SmartWay International Interests: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

SmartWay effectively refers to requirements geared towards reducing fuel consumption. Most large trucking fleets driving newer vehicles are compliant with SmartWay design requirements. Moreover, over time, all HDTs would have to comply with the CARB GHG Regulation that is designed with the SmartWay Program in mind, to reduce GHG emissions by making them more fuel-efficient. For instance, in 2015, 53 foot or longer dry vans or refrigerated trailers equipped

with a combination of SmartWay-verified low-rolling resistance tires and SmartWay-verified aerodynamic devices would obtain a total of 10% or more fuel savings over traditional trailers.

Through the SmartWay Technology Program, the EPA has evaluated the fuel saving benefits of various devices through grants, cooperative agreements, emissions, and fuel economy testing, demonstration projects and technical literature review. As a result, the EPA has determined the following types of technologies provide fuel saving and/or emission reducing benefits when used properly in their designed applications, and has verified certain products:

- Idle reduction technologies – less idling of the engine when it is not needed would reduce fuel consumption.
- Aerodynamic technologies minimize drag and improve airflow over the entire tractor-trailer vehicle. Aerodynamic technologies include gap fairings that reduce turbulence between the tractor and trailer, side skirts that minimize wind under the trailer, and rear fairings that reduce turbulence and pressure drop at the rear of the trailer.
- Low rolling resistance tires can roll longer without slowing down, thereby reducing the amount of fuel used. Rolling resistance (or rolling friction or rolling drag) is the force resisting the motion when a tire rolls on a surface. The wheel would eventually slow down because of this resistance.
- Retrofit technologies include things such as diesel particulate filters, emissions upgrades (to a higher tier), etc., which would reduce emissions.
- Federal excise tax exemptions.

EXECUTIVE ORDER 13990

On January 20, 2021, Federal agencies were directed to immediately review, and take action to address, Federal regulations promulgated and other actions taken during the last 4 years that conflict with national objectives to improve public health and the environment; ensure access to clean air and water; limit exposure to dangerous chemicals and pesticides; hold polluters accountable, including those who disproportionately harm communities of color and low-income communities; reduce GHG emissions; bolster resilience to the impacts of climate change; restore and expand our national treasures and monuments; and prioritize both environmental justice and employment.

2.7.3 CALIFORNIA

2.7.3.1 LEGISLATIVE ACTIONS TO REDUCE GHGS

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 was specifically enacted to address GHG emissions. Other legislation such as Title 24 and Title 20 energy standards were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

SB 1368

California SB 1368 adds Sections 8340 and 8341 to the Public Utilities Code (effective January 1, 2007) with the intent "to prevent long-term investments in power plants with GHG emissions in excess of those produced by a combined-cycle natural gas power plant" with the aim of "reducing emissions of GHGs from the state's electricity consumption, not just the state's electricity production." SB 1368 provides a mechanism for reducing the GHG emissions of electricity providers, both in-state and out-of-state, thereby assisting CARB in meeting its mandate under AB 32, the Global Warming Solutions Act of 2006.

AB 32

The California State Legislature enacted AB 32, which required that GHGs emitted in California be reduced to 1990 levels by the year 2020 (this goal has been met[3]). GHGs as defined under AB 32 include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, NF_3, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 states the following:

> *"Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems."*

SB 375

On September 30, 2008, SB 375 was signed by Governor Schwarzenegger. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40% of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California would not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations (MPOs) to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

SB 375 requires MPOs to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP) that guides growth while taking into account the transportation, housing, environmental, and economic needs of the region. SB 375 uses CEQA streamlining as an incentive to encourage residential projects, which help achieve AB 32 goals to reduce GHG

[3] Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 $MMTCO_2e$ (29). This is less than the 2020 emissions target of 431 $MMTCO_2e$.

emissions. Although SB 375 does not prevent CARB from adopting additional regulations, such actions are not anticipated in the foreseeable future.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the MMs required by an applicable prior environmental document.

AB 1493 - Pavley Fuel Efficiency Standards

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program (LEV III) or the Advanced Clean Cars (ACC) program. The ACC program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for MY 2017 through 2025. The regulation will reduce GHGs from new cars by 34% from 2016 levels by 2025. The new rules will clean up gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid EV and hydrogen fuel cell cars. The package will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California. On March 9, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards for cars and light trucks, which other states can also adopt and enforce. With this authority restored, EPA will continue partnering with states to advance the next generation of clean vehicle technologies.

CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350)

In October 2015, the legislature approved, and Governor Jerry Brown signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for EV charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target would be achieved through the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.

- Reorganize the Independent System Operator (ISO) to develop more regional electrify transmission markets and to improve accessibility in these markets, which would facilitate the growth of renewable energy markets in the western United States.

SB 32

On September 8, 2016, Governor Brown signed SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (10).

CARB SCOPING PLAN UPDATE

In November 2017, CARB released the *Final 2017 Scoping Plan Update* (*2017 Scoping Plan*), which identifies the State's post-2020 reduction strategy. The *2017 Scoping Plan* reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks, and freight movement, utilizing cleaner, renewable energy, and strategies to reduce CH_4 emissions from agricultural and other wastes.

The *2017 Scoping Plan* establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40% decrease in 1990 levels by 2030 (36).

California's climate strategy would require contributions from all sectors of the economy, including the land base, and would include enhanced focus on zero and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (CH_4, black carbon, and fluorinated gases); and an increased focus on integrated land use planning to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for direct GHG reductions at refineries would further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California's local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources. Major elements of the *2017 Scoping Plan* framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing zero-emission vehicles (ZEV) buses and trucks.
- LCFS, with an increased stringency (18% by 2030).
- Implementing SB 350, which expands the RPS to 50% RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.

- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing CH_4 and HCF emissions by 40% and anthropogenic black carbon emissions by 50% by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20% reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Note, however, that the *2017 Scoping Plan* acknowledges that:

> *"[a]chieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA."*

In addition to the statewide strategies listed above, the *2017 Scoping Plan* also identifies local governments as essential partners in achieving the State's long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO_2e ($MTCO_2e$) or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. For CEQA projects, CARB states that lead agencies may develop evidence-based bright-line numeric thresholds—consistent with the *2017 Scoping Plan* and the State's long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and MMs that avoid or minimize project emissions to the degree feasible; or a performance-based metric using a CAP or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year ($MTCO_2e$/yr), indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40% below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State's 80% reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (37) (38).

CAP-AND-TRADE PROGRAM

The *2017 Scoping Plan* identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program would help put California on the path to meet its goal of achieving a 40% reduction in GHG emissions from 1990

levels by 2030. Under cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap would be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. The Cap-and-Trade Program is designed to reduce GHG emissions from regulated entities by more than 16% between 2013 and 2020, and by an additional 40% by 2030. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and would decline over time, achieving GHG emission reductions throughout the program's duration.

Covered entities that emit more than 25,000 $MTCO_2e$/yr must comply with the Cap-and-Trade Program. Triggering of the 25,000 $MTCO_2e$/yr "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or "MRR").

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender "compliance instruments" for each $MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30% of the prior year's compliance obligation by November of each year (39).

The Cap-and-Trade Program provides a firm cap, which provides the highest certainty of achieving the 2030 target. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the *First Update to the Climate Change Scoping Plan*:

> *"The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative."* (40)

The Cap-and-Trade Program covers approximately 80% of California's GHG emissions (36). The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation

fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported.

2.7.3.2 EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

EXECUTIVE ORDER S-3-05

California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80% below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that would stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

EXECUTIVE ORDER S-01-07 (LCFS)

Governor Schwarzenegger signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10% by 2020. CARB adopted the LCFS on April 23, 2009.

After a series of legal changes, in order to address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. On November 16, 2015, the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

In 2018, CARB approved amendments to the regulation, which included strengthening the carbon intensity benchmarks through 2030 in compliance with the SB 32 GHG emissions reduction target for 2030. The amendments included crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector (41).

EXECUTIVE ORDER S-13-08

Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the *2009 California Climate Adaptation Strategy* (*CNRA 2009*) was adopted, which is the "…first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying, and exploring strategies to adapt to climate change, and specifying a direction for future research.

EXECUTIVE ORDER B-30-15

On April 29, 2015, Governor Brown issued an executive order to establish a California GHG reduction target of 40% below 1990 levels by 2030. The Governor's executive order aligned California's GHG reduction targets with those of leading international governments ahead of the U.N. Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40% below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80% below 1990 levels by 2050 and directs CARB to update the *2017 Scoping Plan* to express the 2030 target in terms of $MMTCO_2e$. The Order also requires the state's climate adaptation plan to be updated every three years, and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Order is not legally enforceable as to local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

EXECUTIVE ORDER B-55-18 AND SB 100

SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25% of retail sales of electricity are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours (kWh) of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California EPA (CalEPA), the California Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

2.7.3.3 CALIFORNIA REGULATIONS AND BUILDING CODES

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

TITLE 20 CCR SECTIONS 1601 ET SEQ. – APPLIANCE EFFICIENCY REGULATIONS

The Appliance Efficiency Regulations regulate the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles (RV) or other mobile equipment (CEC 2012).

TITLE 24 CCR PART 6 – CALIFORNIA ENERGY CODE

The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods.

TITLE 24 CCR PART 11 – CALIFORNIA GREEN BUILDING STANDARDS CODE

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that will be effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide $1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (42). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (43):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty electric vehicle supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).

- Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

CARB REFRIGERANT MANAGEMENT PROGRAM

CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 pounds of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

TRACTOR-TRAILER GHG REGULATION

The tractors and trailers subject to this regulation must either use EPA SmartWay certified tractors and trailers or retrofit their existing fleet with SmartWay verified technologies. The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the HD tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with

compliant aerodynamic technologies and low rolling resistance tires. Sleeper cab tractors MY 2011 and later must be SmartWay certified. All other tractors must use SmartWay verified low rolling resistance tires. There are also requirements for trailers to have low rolling resistance tires and aerodynamic devices.

PHASE I AND 2 HEAVY-DUTY VEHICLE GHG STANDARDS

In September 2011, CARB has adopted a regulation for GHG emissions from HDTs and engines sold in California. It establishes GHG emission limits on truck and engine manufacturers and harmonizes with the EPA rule for new trucks and engines nationally. Existing HD vehicle regulations in California include engine criteria emission standards, tractor-trailer GHG requirements to implement SmartWay strategies (i.e., the Heavy-Duty Tractor-Trailer GHG Regulation), and in-use fleet retrofit requirements such as the Truck and Bus Regulation. The EPA rule has compliance requirements for new compression and spark ignition engines, as well as trucks from Class 2b through Class 8. Compliance requirements began with MY 2014 with stringency levels increasing through MY 2018. The rule organizes truck compliance into three groupings, which include a) HD pickups and vans; b) vocational vehicles; and c) combination tractors. The EPA rule does not regulate trailers.

CARB staff has worked jointly with the EPA and the NHTSA on the next phase of federal GHG emission standards for medium-duty trucks (MDT) and HDT vehicles, called federal Phase 2. The federal Phase 2 standards were built on the improvements in engine and vehicle efficiency required by the Phase 1 emission standards and represent a significant opportunity to achieve further GHG reductions for 2018 and later MY HDT vehicles, including trailers. The EPA and NHTSA have proposed to roll back GHG and fuel economy standards for cars and light-duty trucks, which suggests a similar rollback of Phase 2 standards for MDT and HDT vehicles may be pursued.

SB 97 AND THE CEQA GUIDELINES UPDATE

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research (OPR) shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the OPR pursuant to subdivision (a)."

In 2012, Public Resources Code Section 21083.05 was amended to state:

> *"The Office of Planning and Research and the Natural Resources Agency shall periodically update the guidelines for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption, to incorporate new information or criteria established by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code."*

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the *CEQA Guidelines* for implementing CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing *CEQA Guidelines* to reference climate change.

Section 15064.4 was added the *CEQA Guidelines* and states that in determining the significance of a project's GHG emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively insignificant compared to statewide, national, or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. Additionally, a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use (44).

2.7.4 REGIONAL

The project is within the SCAB, which is under the jurisdiction of the SCAQMD.

SCAQMD

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group developed several different options that are contained in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold, which could be applied by lead agencies. The working group has not provided additional guidance since release of the interim guidance in 2008. The SCAQMD Board has not approved the thresholds; however, the Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. The current interim thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.

- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project is less than significant:
    - Residential and commercial land use: 3,000 $MTCO_2e$/yr
    - Industrial land use: 10,000 $MTCO_2e$/yr
    - Based on land use type: residential: 3,500 $MTCO_2e$/yr; commercial: 1,400 $MTCO_2e$/yr; or mixed use: 3,000 $MTCO_2e$/yr
- Tier 4 has the following options:
    - Option 1: Reduce Business-as-Usual (BAU) emissions by a certain percentage; this percentage is currently undefined.
    - Option 2: Early implementation of applicable AB 32 Scoping Plan measures
    - Option 3: 2020 target for service populations (SP), which includes residents and employees: 4.8 $MTCO_2e$ per SP per year for projects and 6.6 $MTCO_2e$ per SP per year for plans;
    - Option 3, 2035 target: 3.0 $MTCO_2e$ per SP per year for projects and 4.1 $MTCO_2e$ per SP per year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's interim thresholds used the Executive Order S-3-05-year 2050 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap CO_2 concentrations at 450 ppm, thus stabilizing global climate.

SCAQMD only has authority over GHG emissions from development projects that include air quality permits. At this time, it is unknown if the project would include stationary sources of emissions subject to SCAQMD permits. Notwithstanding, if the Project requires a stationary permit, it would be subject to the applicable SCAQMD regulations.

SCAQMD Regulation XXVII, adopted in 2009 includes the following rules:

- Rule 2700 defines terms and post global warming potentials.
- Rule 2701, SoCal Climate Solutions Exchange, establishes a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.
- Rule 2702, GHG Reduction Program created a program to produce GHG emission reductions within the SCAQMD. The SCAQMD would fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

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3 EXISTING PROJECT SITE GHG EMISSIONS

The southern portion of the Project site is currently occupied by trailer parking lot on Norman Road totaling approximately 2 acres. As part of the traffic analysis, existing counts were taken to determine activity at the trailer parking lot. As summarized in *Gateway South 9 Warehouse Traffic Scope* (45), the existing use generates 153 total vehicle daily trips, including 133 total truck trips. As such, existing emissions were calculated utilizing CalEEMod version 2022.1. The emissions calculated are based on the existing trips as well as model defaults for area and energy source. GHG emissions from the existing development are summarized on Table 3-1.

TABLE 3-1: EMISSIONS FROM EXISTING DEVELOPMENT

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Mobile Source	841.00	0.10	0.13	0.77	884.00
Area Source	1.77	<0.005	<0.005	0.00	1.82
Energy Source	185.00	0.01	< 0.005	0.00	186
Water Usage	39.50	0.66	0.02	0.00	60.60
Waste	7.31	0.73	0.00	0.00	25.60
Refrigerants	0.00	0.00	0.00	384.00	384.00
Total CO_2e (All Sources)	**1,542.00**				

Source: CalEEMod output, See Appendix 3.1 for detailed model outputs.

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4 PROJECT GHG IMPACT

4.1 INTRODUCTION

The Project has been evaluated to determine if it would result in a significant GHG impact. The significance of these potential impacts is described in the following sections.

4.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related GHG impacts are taken from the Initial Study Checklist in Appendix G of the State *CEQA Guidelines* (14 CCR of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to GHG if it would (1):

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

4.2.1 DISCUSSION ON ESTABLISHMENT OF SIGNIFICANCE THRESHOLDS

The City has determined the development size that would be too small to be able to provide GHG emission reductions. To do this the City determined the GHG emissions allowed by a project such that 90% of the emissions on average from all projects would exceed that level and be "captured" and exceed this level and require further mitigation.

A 90% emission capture rate means that 90% of total emissions from all projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures.

A GHG significance threshold based on a 90% emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90% emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions.

In determining this level of emissions, data available from SCAQMD was utilized. SCAQMD used a database of projects kept by the Governor's OPR. That database contained 798 projects, 60 of which were extremely large General Plan Updates, Master Plans, or Specific Plan Projects. The 60 very large projects were removed from the database in order not to skew the emissions value, leaving a net of 738 projects. In addition, 27 projects were found to be outliers that would skew

the emission value too high, leaving 711 as the sample population to use in determining the 90th percentile capture rate.

The SCAQMD analysis of the 711 projects within the sample population combined commercial, residential, and mixed-use projects. It should be noted that the sample of projects included warehouses and other light industrial land uses but did not include industrial processes (i.e., oil refineries, heavy manufacturing, electric generating stations, mining operations, etc.). Emissions from each of these projects were calculated by SCAQMD to provide a consistent method of emissions calculations across the sample population and from projects within the sample population, construction period GHG emissions were amortized over 30 years (the average economic life of a development project). further reduce potential errors in the statistical analysis. In calculating the emissions

The SCAQMD analysis determined that the 90th percentile ranged from 2,983 to 3,143 MT CO2e per year. Therefore, a 3,000 $MTCO_2e$/yr value is the low end value within that range rounded to the nearest hundred tons of emissions and is used in defining small projects that are considered less than significant and do not need to provide further analysis.

Lastly, we understand that the 3,000 $MTCO_2e$/yr threshold for residential/commercial uses was proposed a decade ago and was never adopted. However, the 3,000 $MTCO_2e$/yr threshold was developed and recommended by SCAQMD, an expert agency, based on substantial evidence as provided in the Draft Guidance Document – Interim CEQA Greenhouse Gas Significance Threshold (2008) document and subsequent Working Group meetings (latest in 2010). This threshold uses the Executive Order S-3-05 goal as the basis, so it is not tied to only the 2020 target year and is thus not outdated. This threshold is also based on the 90% capture rate methodology, which means that 90% of total emissions from all new or modified projects would be subject to some type of CEQA analysis, which was the approach taken by SCAQMD to establish the stationary/industrial source threshold, as well as by the California Air Resources Board (for interim threshold for stationary source projects) and one of the options suggested by the California Air Pollution Control Officers Association (quantitative threshold based on market capture). Further, this threshold has been used for hundreds, if not thousands of GHG analyses performed for projects located within the SCAQMD jurisdiction.

4.3 MODELS EMPLOYED TO ANALYZE GHGS

4.3.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD)

In May 2022 the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of CalEEMod Version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (46). Accordingly, the latest version of CalEEMod has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 4.1 through 4.2. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water.

4.4 LIFE-CYCLE ANALYSIS NOT REQUIRED

A full life-cycle analysis (LCA) for construction and operational activity is not included in this analysis due to the lack of consensus guidance on LCA methodology at this time (47). Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the Project development, infrastructure, and on-going operations) depends on emission factors or econometric factors that are not well established for all processes. At this time, a LCA would be extremely speculative and thus has not been prepared.

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood, or documented, and would be challenging to mitigate (48). Additionally, the science to calculate life cycle emissions is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

4.5 CONSTRUCTION EMISSIONS

Project construction actvities would generate CO_2 and CH_4 emissions The *Gateway South 9 Warehouse Air Quality Impact Analysis* (AQIA) report contains detailed information regarding Project construction activities (49). As discussed in the AQIA, Construction related emissions are expected from the following construction activities:

- Demolition/Crushing
- Grading
- Building Construction
- Paving
- Architectural Coating

4.5.1 CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in June 2023 and would last through June 2024. The construction schedule utilized in the analysis, shown in Table 4-1, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent[4]. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (50).

[4] As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 4-1: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Demolition/Crushing	6/6/2023	7/4/2023	20
Grading	7/5/2023	8/1/2023	20
Building Construction	8/2/2023	3/12/2024	160
Paving	3/13/2024	4/9/2024	20
Architectural Coating	4/10/2024	6/4/2024	40

4.5.2 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-2 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

TABLE 4-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Activity	Equipment	Amount	Hours Per Day
Demolition/Crushing	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
	Crushing/Proc. Equipment	1	8
Graders	Excavators	3	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	3	8
	Crawler Tractors	3	8
Building Construction	Cranes	2	8
	Forklifts	4	8
	Generator Sets	2	8
	Welders	2	8
	Crawler Tractors	4	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

4.5.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends

calculating the total GHG emissions for the construction activities, dividing it by a 30-year Project life then adding that number to the annual operational phase GHG emissions (51). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Table 4-3.

TABLE 4-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Year	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e[5]
2023	531.80	0.03	0.01	0.31	538.70
2024	225.50	0.00	0.00	0.16	229.31
Total GHG Emissions	757.30	0.03	0.01	0.47	768.01
Amortized Construction Emissions	**25.24**	**1.00E-03**	**3.33E-04**	**0.02**	**25.60**

Source: CalEEMod annual construction-source emissions are presented in Appendix 4.1.
[A] CalEEMod reports the most common GHGs emitted which include CO_2, CH_4, and N_2O. These GHGs are then converted into the CO_2e by multiplying the individual GHG by the GWP.

4.6 OPERATIONAL EMISSIONS

Operational activities associated with the Project would result in emissions of CO_2, CH_4, and N_2O from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Cargo Handling Equipment Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste

4.6.1 AREA SOURCE EMISSIONS

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that as October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by 2024. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

[5] CalEEMod reports the most common GHGs emitted which include CO_2, CH_4, and N_2O. These GHGs are then converted into the CO_2e by multiplying the individual GHG by the GWP.

4.6.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building; the building energy use emissions do not include street lighting[6]. GHGs are also emitted during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. It is important to note that most warehouses are not providing natural gas. As such, this analysis will assume that no natural gas will be used as part of the Project. Electricity usage associated with the Project were calculated by CalEEMod using default parameters.

4.6.3 MOBILE SOURCE EMISSIONS

The Project related GHG emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Gateway South 9 Warehouse Traffic Scope* were utilized in this analysis (45).

APPROACH FOR ANALYSIS OF THE PROJECT

In order to determine emissions from passenger car vehicles, CalEEMod defaults for trip length and trip purpose were utilized (52). Default vehicle trip lengths for primary trips will be populated using data from the local metropolitan planning organizations/Regional Transportation Planning Agencies (MPO/RTPA). Trip type percentages and trip lengths provided by MPO/RTPAs truncate data at their demonstrative borders.

For the proposed industrial uses, it is important to note that although the *Gateway South 9 Warehouse Traffic Scope* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[7] & LDT2[8]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix in Table 4-4 was utilized.

TABLE 4-4: PASSENGER CAR FLEET MIX

Land Use	% Vehicle Type				
	LDA	LDT1	LDT2	MDV	MCY
High-Cube Transload and Short-Term Warehouse	56.23%	4.67%	22.39%	14.70%	2.01%

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod

[6] The CalEEMod emissions inventory model does not include indirect emission related to street lighting. Indirect emissions related to street lighting are expected to be negligible and cannot be accurately quantified at this time as there is insufficient information as to the number and type of street lighting that would occur.

[7] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[8] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated SCAQMD recommended truck trip length 15.3 miles for 2-axle (LHDT1, LHDT2) trucks, 14.2 miles 3-axle (MHDT) trucks and 39.9 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *Gateway South 9 Warehouse Traffic Scope*. The trip length function for the high-cube transload and short-term warehouse use has been calculated to 29.87 miles and an assumption of 100% primary trips. This trip length assumption is higher than the CalEEMod defaults for trucks. In order to be consistent with the *Gateway South 9 Warehouse Traffic Scope*, trucks are broken down by truck type. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided in the *Gateway South 9 Warehouse Traffic Scope*. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[9] & LHDT2 [10])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the following fleet mix was utilized in this analysis.

TABLE 4-5: TRUCK FLEET MIX

Land Use	% Vehicle Type			
	LHDT1	LHDT2	MHDT	HHDT
High-Cube Transload and Short-Term Warehouse	13.42%	3.62%	22.73%	60.23%

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

4.6.4 On-Site Cargo Handling Equipment Emissions

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this particular Project, on-site modeled operational equipment includes up to one (1) 175 horsepower (hp), natural gas-powered cargo handling equipment – port tractor operating at 4 hours a day[11] for 365 days of the year.

4.6.5 Water Supply, Treatment and Distribution

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute water and wastewater. The amount of electricity required to convey, treat, and distribute water depends on the volume of water as well as the sources of the water. Unless otherwise noted, CalEEMod default parameters were used.

[9] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[10] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

[11] Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

4.6.6 SOLID WASTE

Industrial land uses would result in the generation and disposal of solid waste. A percentage of this waste would be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted would be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by CalEEMod using default parameters.

4.6.7 EMISSIONS SUMMARY

The estimated Project-related GHG emissions are summarized on Table 4-6. It should be noted that the existing development emissions were subtracted from the Project GHG emissions to determine the new emissions from the proposed Project. Detailed operation model outputs for the Project are presented in Appendix 4.2. As shown in Table 4-6, construction and operation of the Project would generate a net decrease of 26.63 $MTCO_2e$/yr.

TABLE 4-6: PROJECT GHG EMISSIONS

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Annual construction-related emissions amortized over 30 years	25.24	1.00E-03	3.33E-04	0.02	25.60
Mobile Source	694.00	0.05	0.07	1.05	717.00
Area Source	8.06	0.00	0.00	0.00	8.29
Energy Source	305.00	0.03	0.00	0.00	307.00
Water Usage	129.00	3.00	0.07	0.00	226.00
Waste	33.30	3.33	0.00	0.00	117.00
Refrigerants	0.00	0.00	0.00	67.10	67.10
Cargo Handling Equipment	0.00	0.00	0.00	0.00	47.38
Total CO_2e (All Sources)	**1,515.37**				
Existing	*1,542.00*				
Total Net CO_2e (All Sources)	**-26.63**				

Source: CalEEMod output, See Appendix 4.2 for detailed model outputs.

4.7 GHG EMISSIONS FINDINGS AND RECOMMENDATIONS

4.7.1 GHG IMPACT 1

Potential to generate direct or indirect GHG emissions that would result in a less than significant impact on the environment.

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for Projects where it is not the lead agency. As an interim

threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90% of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 $MTCO_2e$/yr for all projects (53).

The Project will result in a net decrease of approximately 26.63 $MTCO_2e$/yr. As such, the Project would not exceed the SCAQMD's recommended numeric threshold of 3,000 $MTCO_2e$/yr. As such, project-related emissions would not have a potential significant direct or indirect impact on GHG and climate change.

4.7.2 GHG IMPACT 2

The Project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

The Project's consistency with AB 32, SB 32, and the GHG Development Review Process are discussed below.

SB 32/2017 SCOPING PLAN CONSISTENCY

The *2017 Scoping Plan* Update reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Table 4-7 summarizes the project's consistency with the *2017 Scoping Plan*. As summarized, the project will not conflict with any of the provisions of the *Scoping Plan* and in fact supports seven of the action categories.

TABLE 3-7: 2017 SCOPING PLAN CONSISTENCY SUMMARY[12]

Action	Responsible Parties	Consistency
Implement SB 350 by 2030		
Increase the Renewables Portfolio Standard to 50% of retail sales by 2030 and ensure grid reliability.	CPUC, CEC, CARB	Consistent. The Project would use energy from Southern California Edison (SCE). SCE has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources. The Project would not interfere with or obstruct SCE energy source diversification efforts.
Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency		Consistent. The Project would be designed and constructed to implement the energy efficiency measures for new light industrial developments and would include several measures designed to

[12] Source California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017 and CARB, Climate Change Scoping Plan, December 2008.

Action	Responsible Parties	Consistency
savings in electricity and natural gas end uses by 2030.		reduce energy consumption. The Project would not interfere with or obstruct policies or strategies to establish annual targets for statewide energy efficiency savings and demand reduction.
Reduce GHG emissions in the electricity sector through the implementation of the above measures and other actions as modeled in Integrated Resource Planning (IRP) to meet GHG emissions reductions planning targets in the IRP process. Load-serving entities and publicly- owned utilities meet GHG emissions reductions planning targets through a combination of measures as described in IRPs.		Consistent. The Project would be designed and constructed to implement energy efficiency measures acting to reduce electricity consumption. The Project includes energy efficient lighting and fixtures that meet the current Title 24 Standards. Further, the Project proposes contemporary industrial facilities that would incorporate energy efficient boilers, heaters, and air conditioning systems.
Implement Mobile Source Strategy (Cleaner Technology and Fuels)		
At least 1.5 million zero emission and plug-in hybrid light-duty electric vehicles by 2025.	CARB, California State Transportation Agency (CalSTA), Strategic Growth Council (SGC), California Department of Transportation (Caltrans), CEC, OPR, Local Agencies	Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty electric vehicle 2025 targets.
At least 4.2 million zero emission and plug-in hybrid light-duty electric vehicles by 2030.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty electric vehicle 2030 targets.
Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.
Medium- and Heavy-Duty GHG Phase 2.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to implement Medium- and Heavy-Duty GHG Phase 2.

Action	Responsible Parties	Consistency
Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20% of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100 % of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NO_X standard.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts improve transit-source emissions.
Last Mile Delivery: New regulation that would result in the use of low NO_X or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5 % of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10% in 2025 and remaining flat through 2030.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to improve last mile delivery emissions.
Further reduce VMT through continued implementation of SB 375 and regional Sustainable Communities Strategies; forthcoming statewide implementation of SB 743; and potential additional VMT reduction strategies not specified in the Mobile Source Strategy but included in the document "Potential VMT Reduction Strategies for Discussion."		Consistent. The Project implements Transportation Demand Measures (TDMs) that would act to reduce VMT.
Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).	CARB	Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).
By 2019, adjust performance measures used to select and design transportation facilities		

Action	Responsible Parties	Consistency
Harmonize project performance with emissions reductions and increase competitiveness of transit and active transportation modes (e.g. via guideline documents, funding programs, project selection, etc.).	CalSTA, SGC, OPR, CARB, Governor's Office of Business and Economic Development (GO-Biz), California Infrastructure and Economic Development Bank (IBank), Department of Finance (DOF), California Transportation Commission (CTC), Caltrans	Consistent. The Project would not obstruct or interfere with agency efforts to harmonize transportation facility project performance with emissions reductions and increase competitiveness of transit and active transportation modes.
By 2019, develop pricing policies to support low-GHG transportation (e.g. low-emission vehicle zones for heavy duty, road user, parking pricing, transit discounts).	CalSTA, Caltrans, CTC, OPR, SGC, CARB	Consistent. The Project would not obstruct or interfere with agency efforts to develop pricing policies to support low-GHG transportation.
Implement California Sustainable Freight Action Plan		
Improve freight system efficiency.	CalSTA, CalEPA, CNRA, CARB, Caltrans, CEC, GO-Biz	Consistent. This measure would apply to all trucks accessing the Project site, this may include existing trucks or new trucks that are part of the statewide goods movement sector. The Project would not obstruct or interfere with agency efforts to Improve freight system efficiency.
Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.		Consistent. The Project would not obstruct or interfere with agency efforts to deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.
Adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18%.	CARB	

Action	Responsible Parties	Consistency
		Consistent. When adopted, this measure would apply to all fuel purchased and used by the Project in the state. The Project would not obstruct or interfere with agency efforts to adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18 %.
Implement the Short-Lived Climate Pollutant Strategy (SLPS) by 2030		
40% reduction in methane and hydrofluorocarbon emissions below 2013 levels.	CARB, CalRecycle, CDFA, SWRCB, Local Air Districts	Consistent. The Project would be required to comply with this measure and reduce any Project-source SLPS emissions accordingly. The Project would not obstruct or interfere agency efforts to reduce SLPS emissions.
50% reduction in black carbon emissions below 2013 levels.		
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	CARB, CalRecycle, CDFA SWRCB, Local Air Districts	Consistent. The Project would implement waste reduction and recycling measures consistent with State and County requirements. The Project would not obstruct or interfere agency efforts to support organic waste landfill reduction goals in the SLCP and SB 1383.
Implement the post-2020 Cap-and-Trade Program with declining annual caps.	CARB	Consistent. The Project would be required to comply with any applicable Cap-and-Trade Program provisions. The Project would not obstruct or interfere agency efforts to implement the post-2020 Cap-and-Trade Program.
By 2018, develop Integrated Natural and Working Lands Implementation Plan to secure California's land base as a net carbon sink		
Protect land from conversion through conservation easements and other incentives.	CNRA, Departments Within CDFA, CalEPA, CARB	Consistent. The Project site is designated for industrial uses. The Project does not propose land conversion. The Project would not obstruct or interfere agency efforts to protect land from conversion through conservation easements and other incentives.

Action	Responsible Parties	Consistency
Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity		Consistent. The Project site is currently developed but the property does not comprise an area that would effectively provide for carbon sequestration. The Project would not obstruct or interfere agency efforts to increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity.
Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments		Consistent. Where appropriate, Project designs will incorporate wood or wood products. The Project would not obstruct or interfere agency efforts to encourage use of wood and agricultural products to increase the amount of carbon stored in the natural and built environments.
Establish scenario projections to serve as the foundation for the Implementation Plan		Consistent. The Project would not obstruct or interfere agency efforts to establish scenario projections to serve as the foundation for the Implementation Plan.
Establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018	CARB	Consistent. The Project would not obstruct or interfere agency efforts to establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018.
Implement Forest Carbon Plan	CNRA, California Department of Forestry and Fire Protection (CAL FIRE), CalEPA and Departments Within	Consistent. The Project would not obstruct or interfere agency efforts to implement the Forest Carbon Plan.
Identify and expand funding and financing mechanisms to support GHG reductions across all sectors.	State Agencies & Local Agencies	Consistent. The Project would not obstruct or interfere agency efforts to identify and expand funding and financing mechanisms to support GHG reductions across all sectors.

As shown above, the Project would not conflict with any of the *2017 Scoping Plan* elements as any regulations adopted would apply directly or indirectly to the Project. Further, recent studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40% below 1990 levels by 2030 (37).

The Project would not have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

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6 CERTIFICATIONS

The contents of this GHG study report represent an accurate depiction of the GHG impacts associated with the proposed Gateway South 9 Warehouse Project. The information contained in this GHG report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

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University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 3.1:

CALEEMOD EXISTING OPERATIONAL EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Existing Operations) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GWS9 Warehouse (Existing Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	87.1	1000sqft	2.00	87,120	0.00	0.00	—	—
User Defined Industrial	87.1	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	716	1000sqft	16.4	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.	1.76	3.06	9.33	9.86	0.06	0.15	0.99	1.14	0.14	0.24	0.38	82.7	8,286	8,368	9.27	1.20	2,336	11,295
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.07	2.43	9.69	6.01	0.06	0.14	0.99	1.14	0.14	0.24	0.37	82.7	8,264	8,346	9.27	1.20	2,322	11,259
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	2.80	7.27	7.09	0.05	0.12	0.73	0.84	0.11	0.17	0.29	82.7	6,407	6,490	9.05	0.91	2,326	9,313
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.51	1.33	1.29	0.01	0.02	0.13	0.15	0.02	0.03	0.05	13.7	1,061	1,074	1.50	0.15	385	1,542

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	1.04	0.22	8.86	5.70	0.06	0.11	0.99	1.10	0.10	0.24	0.34	—	6,953	6,953	0.80	1.10	14.7	7,316
Area	0.67	2.82	0.03	3.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.6	15.6	< 0.005	< 0.005	—	16.0
Energy	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,117	1,117	0.08	0.01	—	1,121
Water	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Waste	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	1.76	3.06	9.33	9.86	0.06	0.15	0.99	1.14	0.14	0.24	0.38	82.7	8,286	8,368	9.27	1.20	2,336	11,295
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.02	0.21	9.25	5.64	0.06	0.11	0.99	1.10	0.10	0.24	0.34	—	6,946	6,946	0.80	1.10	0.38	7,295
Area	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,117	1,117	0.08	0.01	—	1,121
Water	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Waste	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	1.07	2.43	9.69	6.01	0.06	0.14	0.99	1.14	0.14	0.24	0.37	82.7	8,264	8,346	9.27	1.20	2,322	11,259
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.75	0.15	6.81	4.12	0.04	0.08	0.73	0.81	0.08	0.17	0.25	—	5,079	5,079	0.59	0.81	4.65	5,338
Area	0.46	2.62	0.02	2.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	11.0
Energy	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,117	1,117	0.08	0.01	—	1,121
Water	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Waste	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	1.26	2.80	7.27	7.09	0.05	0.12	0.73	0.84	0.11	0.17	0.29	82.7	6,407	6,490	9.05	0.91	2,326	9,313

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.14	0.03	1.24	0.75	0.01	0.01	0.13	0.15	0.01	0.03	0.05	—	841	841	0.10	0.13	0.77	884
Area	0.08	0.48	< 0.005	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77	1.77	< 0.005	< 0.005	—	1.82
Energy	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	185	185	0.01	< 0.005	—	186
Water	—	—	—	—	—	—	—	—	—	—	—	6.39	33.1	39.5	0.66	0.02	—	60.6
Waste	—	—	—	—	—	—	—	—	—	—	—	7.31	0.00	7.31	0.73	0.00	—	25.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	384	384
Total	0.23	0.51	1.33	1.29	0.01	0.02	0.13	0.15	0.02	0.03	0.05	13.7	1,061	1,074	1.50	0.15	385	1,542

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.08	0.07	0.03	0.63	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	122	122	0.01	< 0.005	0.48	124
User Defined Industrial	0.96	0.15	8.82	5.07	0.06	0.11	0.51	0.61	0.10	0.16	0.27	—	6,831	6,831	0.80	1.10	14.2	7,192
Other 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	1.04	0.22	8.86	5.70	0.06	0.11	0.51	0.62	0.10	0.16	0.27	—	6,953	6,953	0.80	1.10	14.7	7,316

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.07	0.07	0.04	0.53	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	112	112	0.01	< 0.005	0.01	114
User Defined Industrial	0.95	0.14	9.21	5.11	0.06	0.11	0.51	0.61	0.10	0.16	0.27	—	6,834	6,834	0.80	1.10	0.37	7,181
Other 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	1.02	0.21	9.25	5.64	0.06	0.11	0.51	0.62	0.10	0.16	0.27	—	6,946	6,946	0.80	1.10	0.38	7,295
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.01	0.01	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.02	14.0
User Defined Industrial	0.13	0.02	1.24	0.68	0.01	0.01	0.07	0.08	0.01	0.02	0.04	—	827	827	0.10	0.13	0.74	870
Other 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	0.14	0.03	1.24	0.75	0.01	0.01	0.07	0.08	0.01	0.02	0.04	—	841	841	0.10	0.13	0.77	884

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	586	586	0.04	< 0.005	—	589
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	97.1	97.1	0.01	< 0.005	—	97.5

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	97.1	97.1	0.01	< 0.005	—	97.5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532
User Defined Industrial	0.00	0.00	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 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	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532

User Defined Industrial	0.00	0.00	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 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	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	532
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	—	88.1
User Defined Industrial	0.00	0.00	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 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	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	—	88.1

4.3. Area Emissions by Source

4.3.2. 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	—	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67	0.62	0.03	3.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.6	15.6	< 0.005	< 0.005	—	16.0
Total	0.67	2.82	0.03	3.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.6	15.6	< 0.005	< 0.005	—	16.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.08	< 0.005	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77	1.77	< 0.005	< 0.005	—	1.82
Total	0.08	0.48	< 0.005	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77	1.77	< 0.005	< 0.005	—	1.82

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	38.6	200	238	3.97	0.10	—	366
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	6.39	33.1	39.5	0.66	0.02	—	60.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.39	33.1	39.5	0.66	0.02	—	60.6

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.1	0.00	44.1	4.41	0.00	—	154
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	7.31	0.00	7.31	0.73	0.00	—	25.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.31	0.00	7.31	0.73	0.00	—	25.6

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,322	2,322
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	384	384
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	384	384

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

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
Unrefrigerated Warehouse-No Rail	20.0	1.69	0.68	5,339	162	13.7	5.50	43,194
User Defined Industrial	133	11.3	4.50	35,496	1,922	163	65.1	512,915
Other 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	130,680	43,560	42,948

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)

Unrefrigerated Warehouse-No Rail	402,381	532	0.0330	0.0040	1,656,210
User Defined Industrial	0.00	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	532	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)
Unrefrigerated Warehouse-No Rail	20,146,500	0.00
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	81.9	0.00
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6
Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4

Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	17.46439112
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109
Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187

Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9
Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5

Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—
2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0

Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

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APPENDIX 4.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Construction) Detailed 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	GWS9 Warehouse (Construction)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	397	1000sqft	10.9	397,400	77,497	0.00	—	—
Parking Lot	288	Space	2.52	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	218	1000sqft	5.02	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.	37.7	50.0	54.1	74.0	0.09	2.57	3.49	6.07	2.37	1.12	3.49	—	9,670	9,670	0.40	0.31	14.0	9,716
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.95	4.13	31.2	37.6	0.05	1.71	2.53	4.23	1.57	0.61	2.18	—	8,125	8,125	0.40	0.31	0.36	8,227
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.91	6.13	13.9	17.9	0.02	0.75	0.99	1.74	0.68	0.25	0.93	—	3,213	3,213	0.16	0.11	1.94	3,251
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.71	1.12	2.53	3.26	< 0.005	0.14	0.18	0.32	0.12	0.05	0.17	—	532	532	0.03	0.02	0.32	538

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	37.7	36.9	54.1	74.0	0.09	2.57	3.49	6.07	2.37	1.12	3.49	—	9,670	9,670	0.40	0.31	14.0	9,716
2024	1.12	50.0	8.07	11.4	0.02	0.39	0.52	0.63	0.36	0.12	0.42	—	1,884	1,884	0.08	0.07	2.77	1,901
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.95	4.13	31.2	37.6	0.05	1.71	2.53	4.23	1.57	0.61	2.18	—	8,125	8,125	0.40	0.31	0.36	8,227
2024	4.67	3.89	29.4	36.4	0.05	1.55	2.53	4.07	1.43	0.61	2.03	—	8,067	8,067	0.39	0.31	0.34	8,168
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	3.91	3.56	13.9	17.9	0.02	0.75	0.99	1.74	0.68	0.25	0.93	—	3,213	3,213	0.16	0.11	1.94	3,251
2024	0.79	6.13	4.91	6.41	0.01	0.25	0.42	0.67	0.23	0.10	0.33	—	1,365	1,365	0.07	0.05	0.96	1,383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.71	0.65	2.53	3.26	< 0.005	0.14	0.18	0.32	0.12	0.05	0.17	—	532	532	0.03	0.02	0.32	538
2024	0.14	1.12	0.90	1.17	< 0.005	0.05	0.08	0.12	0.04	0.02	0.06	—	226	226	0.01	0.01	0.16	229

3. Construction Emissions Details

3.1. Demolition (2023) - 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	37.5	36.8	28.2	71.6	0.03	1.79	—	1.79	1.55	—	1.55	—	3,503	3,503	0.14	0.03	—	3,515

Demolition	—	—	—	—	—	—	0.59	0.59	—	0.09	0.09	—	—	—	—	—	—	—
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	2.06	2.01	1.54	3.92	< 0.005	0.10	—	0.10	0.08	—	0.08	—	192	192	0.01	< 0.005	—	193
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.37	0.28	0.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	31.8	31.8	< 0.005	< 0.005	—	31.9
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 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	0.11	0.10	0.10	1.67	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	264	264	0.01	0.01	1.13	268
Vendor	0.02	0.01	0.23	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	190	190	0.02	0.03	0.52	199
Hauling	0.11	0.02	0.99	0.55	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	786	786	0.09	0.12	1.64	827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	13.5	13.5	< 0.005	< 0.005	0.03	13.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.9
Hauling	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	43.1	43.1	< 0.005	0.01	0.04	45.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.23	2.23	< 0.005	< 0.005	< 0.005	2.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.73	1.73	< 0.005	< 0.005	< 0.005	1.81
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.50

3.3. Grading (2023) - 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	6.56	5.51	53.8	42.5	0.08	2.57	—	2.57	2.37	—	2.37	—	9,101	9,101	0.37	0.07	—	9,132
Dust From Material Movement	—	—	—	—	—	—	3.08	3.08	—	1.02	1.02	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.95	2.33	< 0.005	0.14	—	0.14	0.13	—	0.13	—	499	499	0.02	< 0.005	—	500

Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.06	0.06	—	—	—	—	—	—	—
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	0.07	0.06	0.54	0.43	< 0.005	0.03	—	0.03	0.02	—	0.02	—	82.6	82.6	< 0.005	< 0.005	—	82.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.15	2.59	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	411	411	0.02	0.01	1.76	418
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	158	158	0.01	0.02	0.44	166
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	0.01	0.01	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	20.9	20.9	< 0.005	< 0.005	0.04	21.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.68	8.68	< 0.005	< 0.005	0.01	9.09
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.47	3.47	< 0.005	< 0.005	0.01	3.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.51

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

3.5. Building Construction (2023) - 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	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
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	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
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	1.15	0.96	8.52	7.49	0.01	0.50	—	0.50	0.46	—	0.46	—	1,371	1,371	0.06	0.01	—	1,376
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	0.21	0.18	1.55	1.37	< 0.005	0.09	—	0.09	0.08	—	0.08	—	227	227	0.01	< 0.005	—	228
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	1.01	0.92	0.89	15.5	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,453	2,453	0.10	0.08	10.5	2,491
Vendor	0.14	0.04	1.50	0.81	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,268	1,268	0.11	0.19	3.50	1,329
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	0.95	0.86	1.03	11.6	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,248	2,248	0.11	0.08	0.27	2,275
Vendor	0.14	0.03	1.56	0.82	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,268	1,268	0.11	0.19	0.09	1,327
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	0.28	0.25	0.31	3.66	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	678	678	0.03	0.02	1.36	688
Vendor	0.04	0.01	0.47	0.24	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	377	377	0.03	0.06	0.45	395
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	0.05	0.05	0.06	0.67	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	112	112	0.01	< 0.005	0.22	114
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.4	62.4	0.01	0.01	0.07	65.4
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. Building Construction (2024) - 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	3.63	3.04	26.9	24.9	0.05	1.53	—	1.53	1.41	—	1.41	—	4,608	4,608	0.19	0.04	—	4,624
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	0.51	0.43	3.79	3.51	0.01	0.22	—	0.22	0.20	—	0.20	—	649	649	0.03	0.01	—	652
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	0.09	0.08	0.69	0.64	< 0.005	0.04	—	0.04	0.04	—	0.04	—	107	107	< 0.005	< 0.005	—	108
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	0.91	0.82	0.95	10.7	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,204	2,204	0.10	0.08	0.25	2,231
Vendor	0.13	0.03	1.50	0.78	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,255	1,255	0.10	0.19	0.09	1,313
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	0.13	0.11	0.13	1.58	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	315	315	0.01	0.01	0.58	319
Vendor	0.02	< 0.005	0.21	0.11	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	177	177	0.01	0.03	0.21	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	52.1	52.1	< 0.005	< 0.005	0.10	52.9
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.04	30.7
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. Paving (2024) - 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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.06	0.05	0.43	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	216	216	0.01	0.01	0.86	219
Vendor	0.02	< 0.005	0.18	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	157	157	0.01	0.02	0.44	164
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	0.08	0.07	0.09	0.96	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	198	198	0.01	0.01	0.02	200
Vendor	0.02	< 0.005	0.19	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	157	157	0.01	0.02	0.01	164
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	0.06	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	11.0	11.0	< 0.005	< 0.005	0.02	11.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.59	8.59	< 0.005	< 0.005	0.01	9.00
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.85
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.49
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. Architectural Coating (2024) - 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	0.44	0.36	2.42	3.06	< 0.005	0.08	—	0.08	0.08	—	0.08	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	49.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.04	0.27	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	—	39.2
Architectural Coatings	—	5.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.46	6.46	< 0.005	< 0.005	—	6.48
Architectural Coatings	—	0.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.19	0.17	0.16	2.79	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	475	475	0.02	0.02	1.90	482
Vendor	0.03	0.01	0.36	0.19	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	314	314	0.02	0.05	0.87	329
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	0.02	0.02	0.02	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	48.4	48.4	< 0.005	< 0.005	0.09	49.1
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	34.4	34.4	< 0.005	0.01	0.04	36.0
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	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.01	8.01	< 0.005	< 0.005	0.01	8.13
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.69	5.69	< 0.005	< 0.005	0.01	5.96
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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	6/6/2023	7/4/2023	5.00	20.0	—
Grading	Grading	7/5/2023	8/1/2023	5.00	20.0	—
Building Construction	Building Construction	8/2/2023	3/12/2024	5.00	160	—
Paving	Paving	3/13/2024	4/9/2024	5.00	20.0	—
Architectural Coating	Architectural Coating	4/10/2024	6/4/2024	5.00	40.0	—

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
Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48

Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
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
Demolition	Crushing/Proc. Equipment	Gasoline	Average	1.00	8.00	12.0	0.85
Grading	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Building Construction	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43

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	18.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	11.0	20.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	28.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	5.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	167	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	40.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	5.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	33.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

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	610,870	203,623	19,694

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 (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	18,680	—
Grading	0.00	0.00	110	0.00	—
Paving	0.00	0.00	0.00	0.00	7.54

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.52	100%
Other Asphalt Surfaces	5.02	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6

Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	—
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109

Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187
Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9

Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5
Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—

2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 18.43 acres
Construction: Architectural Coatings	Rule 1113
Construction: Construction Phases	Construction schedule anticipated to begin June 2023 and end June 2024
Construction: Off-Road Equipment	Construction equipment based on equipment used for construction of similar industrial projects within the area

Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Grading, Building Construction, Paving, and Architectural Coating

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APPENDIX 4.2:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS

GWS9 Warehouse (Operations) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GWS9 Warehouse (Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.08044915173517, -117.27001211765054
County	San Bernardino-South Coast
City	San Bernardino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5380
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	397	1000sqft	10.9	397,400	77,497	0.00	—	—
User Defined Industrial	397	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Parking Lot	288	Space	2.52	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	218	1000sqft	5.02	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.	5.24	14.2	4.75	34.3	0.06	0.08	1.48	1.56	0.09	0.28	0.37	377	8,448	8,825	38.8	1.01	425	10,521
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.07	11.2	4.85	14.7	0.05	0.06	1.48	1.54	0.06	0.28	0.34	377	8,151	8,529	38.8	1.01	406	10,204
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.61	12.7	3.68	22.9	0.04	0.06	1.08	1.14	0.06	0.21	0.27	377	6,692	7,070	38.7	0.86	411	8,706
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.66	2.32	0.67	4.18	0.01	0.01	0.20	0.21	0.01	0.04	0.05	62.5	1,108	1,170	6.41	0.14	68.1	1,441

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	2.17	1.77	4.60	17.1	0.06	0.06	1.48	1.54	0.06	0.28	0.34	—	5,928	5,928	0.40	0.54	20.0	6,120
Area	3.07	12.4	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	5.24	14.2	4.75	34.3	0.06	0.08	1.48	1.56	0.09	0.28	0.37	377	8,448	8,825	38.8	1.01	425	10,521
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.07	1.67	4.85	14.7	0.05	0.06	1.48	1.54	0.06	0.28	0.34	—	5,702	5,702	0.41	0.55	0.52	5,876
Area	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	2.07	11.2	4.85	14.7	0.05	0.06	1.48	1.54	0.06	0.28	0.34	377	8,151	8,529	38.8	1.01	406	10,204
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.21	3.58	11.1	0.04	0.04	1.08	1.12	0.04	0.21	0.25	—	4,195	4,195	0.30	0.40	6.31	4,328
Area	2.10	11.5	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.7	48.7	< 0.005	< 0.005	—	50.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,845	1,845	0.17	0.02	—	1,856
Water	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Waste	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405

Total	3.61	12.7	3.68	22.9	0.04	0.06	1.08	1.14	0.06	0.21	0.27	377	6,692	7,070	38.7	0.86	411	8,706
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.22	0.65	2.02	0.01	0.01	0.20	0.21	0.01	0.04	0.05	—	694	694	0.05	0.07	1.05	717
Area	0.38	2.10	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	305	305	0.03	< 0.005	—	307
Water	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226
Waste	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1
Total	0.66	2.32	0.67	4.18	0.01	0.01	0.20	0.21	0.01	0.04	0.05	62.5	1,108	1,170	6.41	0.14	68.1	1,441

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.78	1.66	0.81	14.8	0.03	0.01	0.13	0.15	0.01	0.04	0.05	—	2,865	2,865	0.13	0.08	11.2	2,904
User Defined Industrial	0.40	0.11	3.79	2.29	0.03	0.04	0.23	0.27	0.04	0.07	0.12	—	3,063	3,063	0.28	0.46	8.80	3,216
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	2.17	1.77	4.60	17.1	0.06	0.06	0.36	0.42	0.06	0.11	0.17	—	5,928	5,928	0.40	0.54	20.0	6,120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.68	1.57	0.90	12.4	0.03	0.01	0.13	0.15	0.01	0.04	0.05	—	2,638	2,638	0.14	0.09	0.29	2,668
User Defined Industrial	0.39	0.10	3.96	2.31	0.03	0.05	0.23	0.27	0.04	0.07	0.12	—	3,064	3,064	0.28	0.46	0.23	3,209
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	2.07	1.67	4.85	14.7	0.05	0.06	0.36	0.42	0.06	0.11	0.17	—	5,702	5,702	0.41	0.55	0.52	5,876
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.22	0.21	0.12	1.71	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	324	324	0.02	0.01	0.59	328
User Defined Industrial	0.05	0.01	0.53	0.31	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	371	371	0.03	0.06	0.46	389
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	0.28	0.22	0.65	2.02	0.01	0.01	0.05	0.06	0.01	0.02	0.02	—	694	694	0.05	0.07	1.05	717

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,753	1,753	0.17	0.02	—	1,763
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	91.8	91.8	0.01	< 0.005	—	92.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,845	1,845	0.17	0.02	—	1,856
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,753	1,753	0.17	0.02	—	1,763
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	91.8	91.8	0.01	< 0.005	—	92.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,845	1,845	0.17	0.02	—	1,856
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.03	< 0.005	—	292
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.2	15.2	< 0.005	< 0.005	—	15.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	305	305	0.03	< 0.005	—	307

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. 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	—	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.07	2.83	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Total	3.07	12.4	0.15	17.3	< 0.005	0.02	—	0.02	0.03	—	0.03	—	71.1	71.1	< 0.005	0.01	—	73.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.38	0.35	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29
Total	0.38	2.10	0.02	2.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.06	8.06	< 0.005	< 0.005	—	8.29

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	176	604	780	18.1	0.44	—	1,363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	29.2	100.0	129	3.00	0.07	—	226

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	201	0.00	201	20.1	0.00	—	704
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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	—	—	—	—	—	—	—	—	—	—	—	33.3	0.00	33.3	3.33	0.00	—	117

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	405	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	67.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

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
Unrefrigerated Warehouse-No Rail	469	39.7	15.9	125,173	3,795	321	128	1,012,762
User Defined Industrial	88.0	7.43	2.98	23,482	1,038	87.6	35.2	276,942
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	596,100	198,700	19,694

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)
Unrefrigerated Warehouse-No Rail	1,835,473	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	96,160	349	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	349	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)
Unrefrigerated Warehouse-No Rail	91,898,750	1,244,534
User Defined Industrial	0.00	0.00
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)
Unrefrigerated Warehouse-No Rail	374	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.1	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	59.6
AQ-DPM	87.9
Drinking Water	69.0
Lead Risk Housing	84.4
Pesticides	26.5
Toxic Releases	46.2
Traffic	80.1
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	10.6
Haz Waste Facilities/Generators	94.6

Impaired Water Bodies	12.5
Solid Waste	75.9
Sensitive Population	—
Asthma	46.9
Cardio-vascular	61.4
Low Birth Weights	64.5
Socioeconomic Factor Indicators	—
Education	75.0
Housing	43.3
Linguistic	76.1
Poverty	87.9
Unemployment	78.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.646092647
Employed	4.837674836
Median HI	17.46439112
Education	—
Bachelor's or higher	24.17554215
High school enrollment	17.31040678
Preschool enrollment	35.14692673
Transportation	—
Auto Access	59.70742974
Active commuting	57.62864109

Social	—
2-parent households	49.12100603
Voting	9.867830104
Neighborhood	—
Alcohol availability	54.40780187
Park access	15.0904658
Retail density	76.40189914
Supermarket access	2.399589375
Tree canopy	7.35275247
Housing	—
Homeownership	37.32837162
Housing habitability	24.47067881
Low-inc homeowner severe housing cost burden	35.91684845
Low-inc renter severe housing cost burden	43.66739381
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	8.494803028
Arthritis	51.7
Asthma ER Admissions	30.3
High Blood Pressure	62.1
Cancer (excluding skin)	57.8
Asthma	32.2
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	12.3
Diagnosed Diabetes	51.3
Life Expectancy at Birth	15.4
Cognitively Disabled	11.9

Physically Disabled	30.9
Heart Attack ER Admissions	35.2
Mental Health Not Good	20.5
Chronic Kidney Disease	64.9
Obesity	43.5
Pedestrian Injuries	61.9
Physical Health Not Good	21.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	82.5
Current Smoker	9.0
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	64.0
English Speaking	43.5
Foreign-born	69.8
Outdoor Workers	24.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.0
Traffic Density	77.1
Traffic Access	23.0
Other Indices	—
Hardship	89.8
Other Decision Support	—

2016 Voting	13.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 18.43 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	No natural gas will be used

Operations: Refrigerants	Per 17 CCR 95371, new refrigeration equipment containing >50 lbs of refrigerant in new facilities is prohibited from utilizing refrigerants with a GWP of 150 or greater as of 1 Jan 2022

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Appendix H:

Preliminary Hydrology Calculations

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMNARY HYDROLOGY CALCULATIONS

FOR

GATEWAY SOUTH
BUILDING 9
SAN BERNARDINO

PREPARED FOR

GATEWAY SOUTH 9 DEVELOPMENT, LLC
36 DISCOVERY, SUITE 130
IRINVE, CA 92612
PH. (909) 382-0033

JUNE 22, 2022
REVISED SEPTEMBER 6, 2022

JOB NO. 4106

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
P. (714) 521-4811
FAX. (714) 521-4173

PRELIMNARY HYDROLOGY CALCULATIONS

FOR

GATEWAY SOUTH BUILDING 9 SAN BERNARDINO

PREPARED BY KRISTIE FERRONATO
UNDER THE SUPERVISION OF

_____

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. 12/31/22

INTRODUCTION

A: PROJECT LOCATION

The project site is located on the north side of Orange Show Rd, south of Norman Rd, and north west of the Santa Ana River. This would be in the City of San Bernardino, California. Please see Figure 1 for vicinity map.

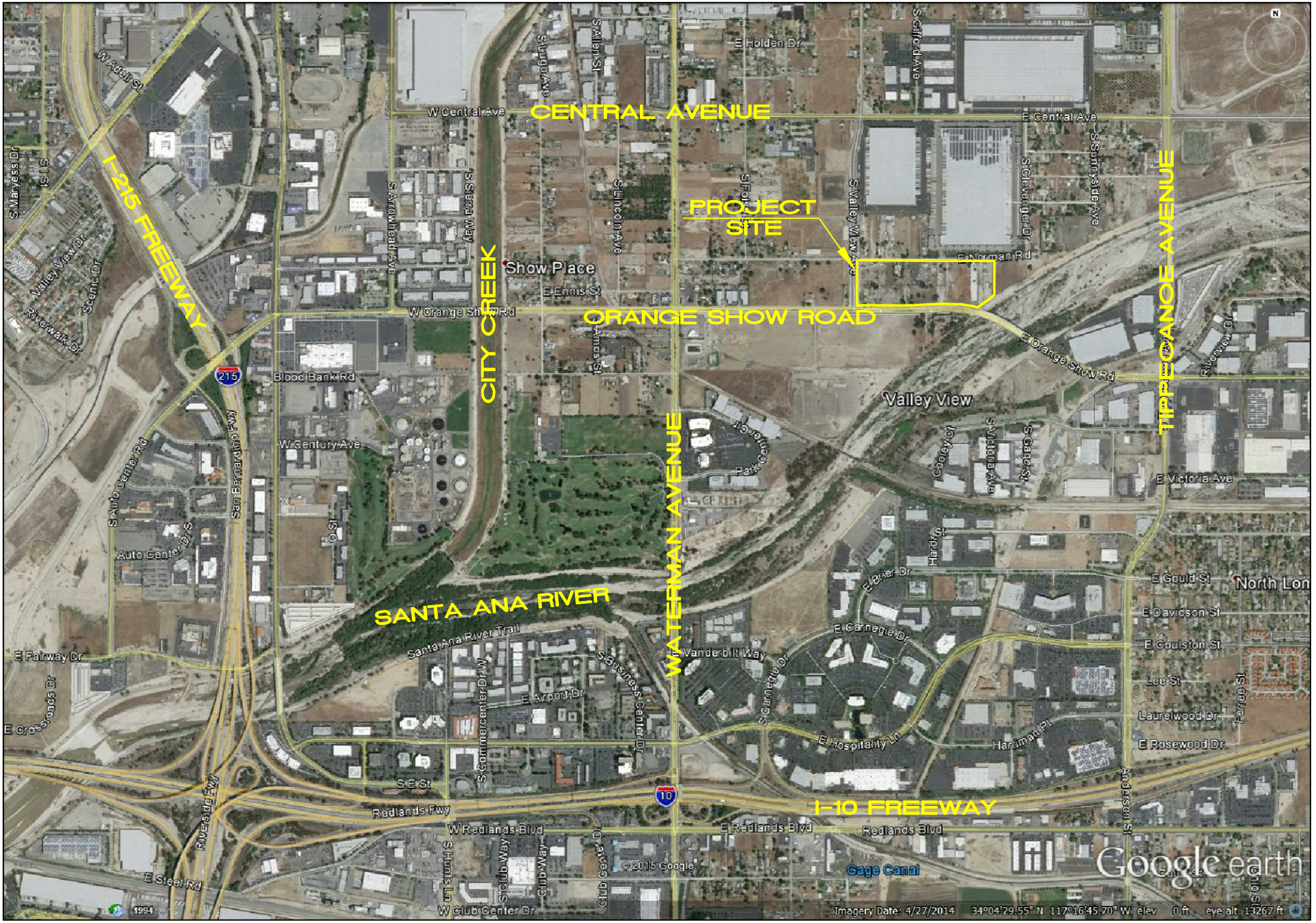
B: STUDY PURPOSE

The purpose of this study is to determine the 100-year peak flow rate from the site that will drain to an existing storm drain 36" Storm drain that connects to the Santa Ana River.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Joshua Jacob
Kristie Ferronato



Last Update:8/25/22
O:\4100-4199\4106\4106VicMap.dwg

NTS

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

VICINITY MAP

FOR

GATEWAY SOUTH BUILDING 9

DISCUSSION

The proposed project site encompasses approximately 18.39 acres. Proposed improvements to the site consist of the construction of one commercial building of approximately 397,700 square feet. A truck storage yard will be located approximately at the east side of the proposed building. Vehicle parking will be located along the east and west sides of the building. There will be a truck yard along the south side of the building. Landscaping will be throughout site.

Existing Condition:

The existing site consist of many land uses. The northwestern portion of the stie drains southwesterly and is generally developed as a multi residential lots. The 100-year flow peak flow rate for this area is approximately 6.9 cfs.

The southwestern portion of the site drains generally southerly towards Orange Show Road. The majority of this subarea is vacant undeveloped land with one parcel being developed with concrete paving. The 100-year flow peak flow rate for this area is approximately 10.6 cfs.

The eastern portion of the site consists of several lots, either vacant land or commercial developed used as trailer storage. This area drains southeasterly towards an existing headwall on the property. The 100-year flow peak flow rate for this area is approximately 20.5 cfs.

This existing headwall connects to an existing 36" RCP storm drain which continues southerly across Orange Show Road and ultimately discharges into the Santa Ana River. The plans for this storm drain show a design flow rate of 35 cfs from the headwall.

Please see Appendix "B" for existing condition hydrology calculations and Appendix "D" for existing condition hydrology map.

Off-Site Run-on:

The property to the east of the project drains southwesterly and appears to drain towards the project site. The 100-year flow peak flow rate for this area is approximately 7.9 cfs.

Please see Appendix "B" for existing condition hydrology calculations and Appendix "D" for existing condition hydrology map.

Proposed Condition:

The project will generally drain south towards the existing headwall in the southeast corner of the site. The northerly landscape area will have a low spot and collected runoff will be conveyed easterly. Runoff from the northwesterly portion of the roof will be added to the storm drain system (Line A) as it is conveyed westerly. The proposed storm drain will continue southerly in the western drive aisle and turn east and where the runoff from the bulk of the building and the southern truck yards will be added by a series of catch basins in the truck yard. Runoff from the adjacent site to the east will be picked via catch basin at the southeasterly landscape area. The proposed storm drain will continue east towards the existing headwall and existing 36" storm drain.

Runoff from the northeasterly portion of the roof will run easterly and turn south at the easterly drive aisle. The proposed storm drain will continue southerly in the eastern drive aisle and turn west where it will confluence with SD Line A in the truck yard.

The 100-year flow peak flow rate for this area is approximately 33.1 cfs.

Runoff from the northerly portion of the west vehicle parking lot will surface drain south to a low spot just north of the west driveway where it will discharge to Lena Road via parkway drain.

The 100-year flow peak flow rate for this area is approximately 1.6 cfs.

Runoff from the southerly portion of the west vehicle parking lot will surface drain north to a low spot just south of the west driveway where it will discharge to Lena Road via parkway drain.

The 100-year flow peak flow rate for this area is approximately 1.4 cfs.

Runoff from the southwesterly portion of the west vehicle parking lot will surface drain south to a low spot at the southwest corner of the parking lot where it will discharge to Orange Show Road via parkway drain.

The 100-year flow peak flow rate for this area is approximately 1.0 cfs.

Runoff from the westerly portion of the building and southwesterly vehicle parking lot will surface drain south to a low spot at the southwest corner of vehicle parking lot where it will discharge to Orange Show Road via parkway drain.

The 100-year flow peak flow rate for this area is approximately 1.0 cfs.

Please see Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

Detention:

The existing storm drain in Orange Show Road has a flow rate of 35 cfs (per As-Built Dwg. 9142). This includes runoff from the neighbor to the east. Therefore, the project will limit discharge from the site to less than 27.9 cfs. This will be achieved by ponding runoff in the truck yard. The site discharge can be limited to approximately 22.5 cfs, which will require approximately 0.53 ac-ft of storage which can be achieved at a depth of 0.72 feet. This will limit the peak flow from the site to the design flow rate of the existing storm drain.

Please see Appendix "C" for detention calculations and Appendix "A" for As-Built plan.

Methodology:

Hydrology calculations were computed using the San Bernardino County Rational Method computer program (by AES Software). Detention analysis was calculated using San Bernardino County's small area unit hydrograph program. The site is soil type is "A" per the San Bernardino County Hydrology Manual. See Appendix "A" for reference materials.

APPENDIX	DESCRIPTION
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

APPENDIX A

REFERENCE MATERIALS



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

SCALE REDUCED BY 1/2

SOIL GROUP A

HYDROLOGIC SOILS GROUP MAP
FOR
SOUTHWEST-B AREA

FIGURE C-14

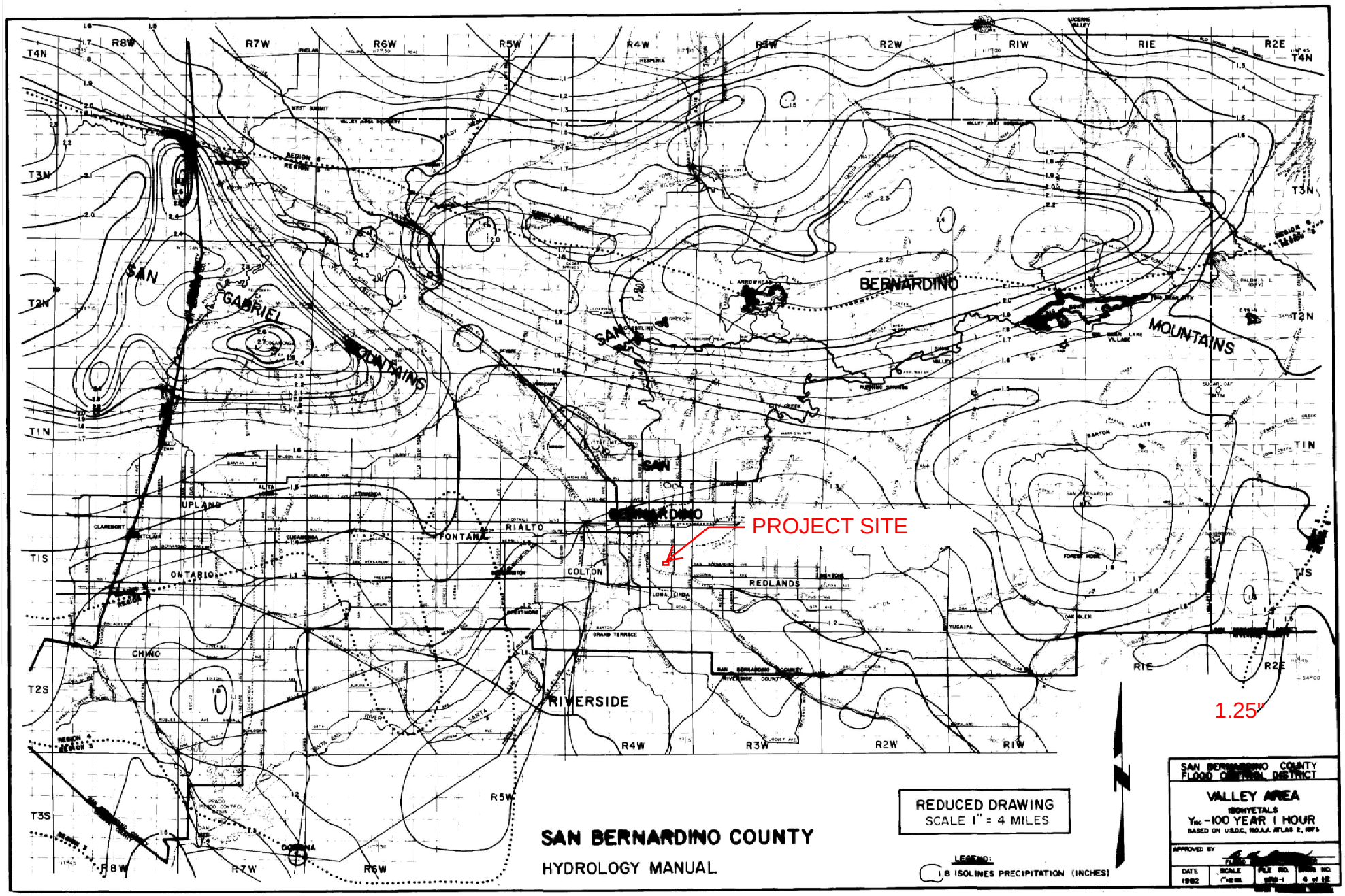

PROJECT SITE
1.25"
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
1.8 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
Y100 - 100 YEAR 1 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
DATE 1982
SCALE 1"=4 MI.
FILE NO. 1020-1
DWG. NO. 4 of 12
SAN BERNARDINO
RIVERSIDE
UPLAND
ONTARIO
CHINO
FONTANA
RIALTO
COLTON
REDLANDS
LOMA LINDA
YUCAIPA
GRAND TERRACE
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
T4N
T3N
T2N
T1N
T1S
T2S
T3S
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E

FIGURE B-4

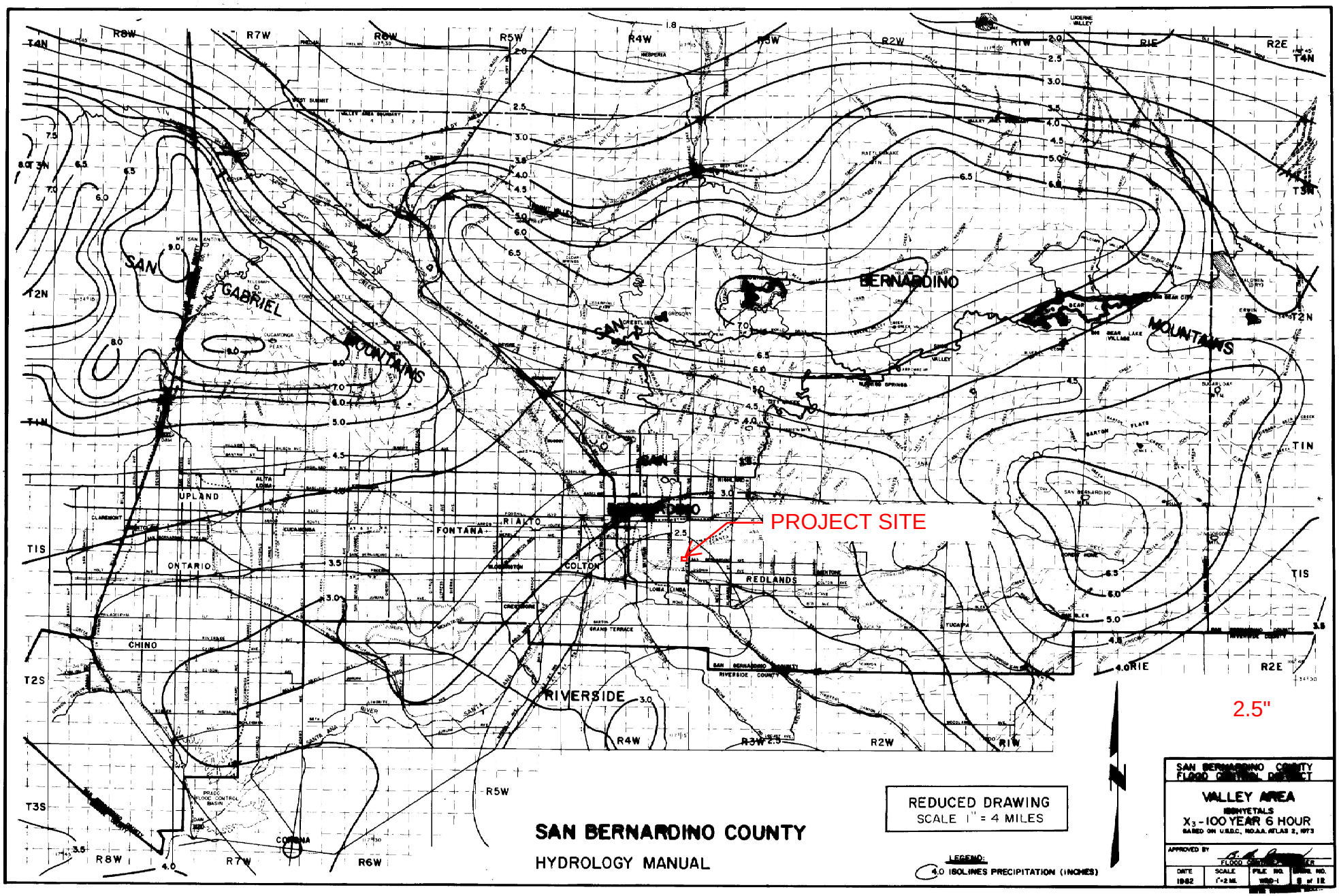

PROJECT SITE
2.5"
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
4.0 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X3 - 100 YEAR 6 HOUR
BASED ON U.S.B.C., NOAA ATLAS 2, 1973
APPROVED BY
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
SHEET NO. 8 of 12

FIGURE B-5

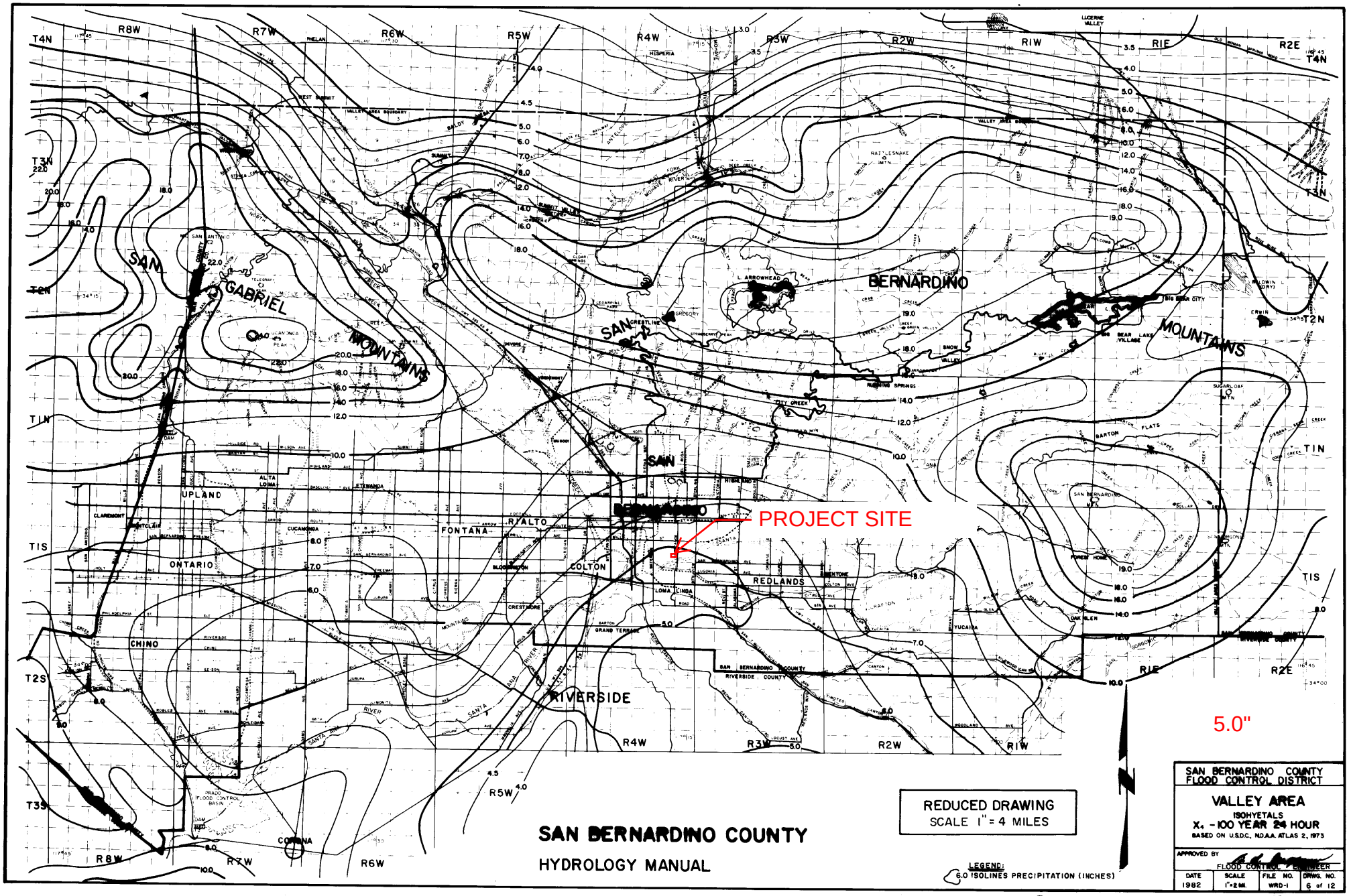
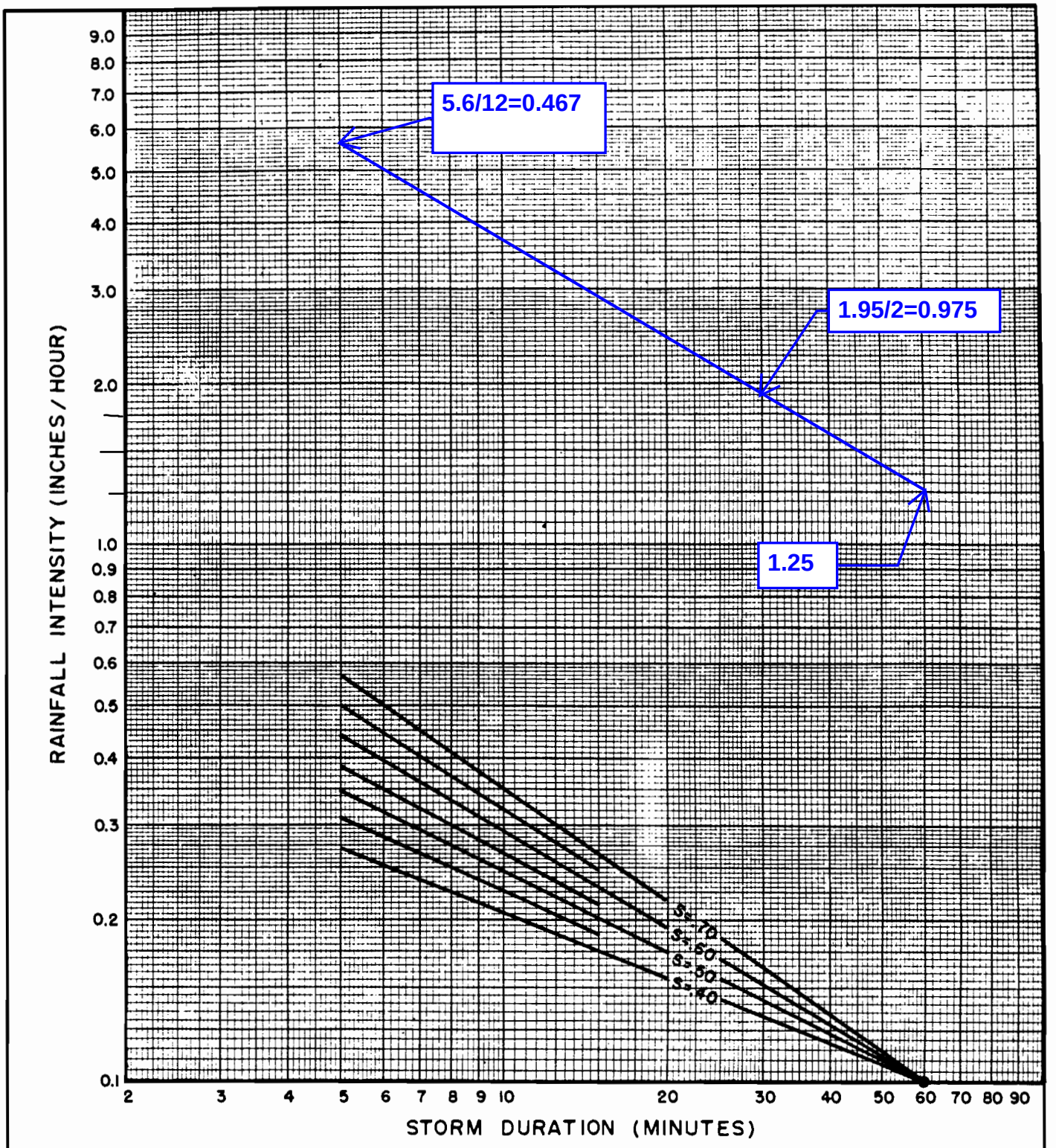

PROJECT SITE
5.0"
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
6.0 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X₆ - 100 YEAR 24 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
FLOOD CONTROL ENGINEER
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DRWG. NO. 6 of 12

FIGURE B-6



DESIGN STORM FREQUENCY = 100 YEARS

ONE HOUR POINT RAINFALL = 1.25 INCHES

LOG-LOG SLOPE = 0.6

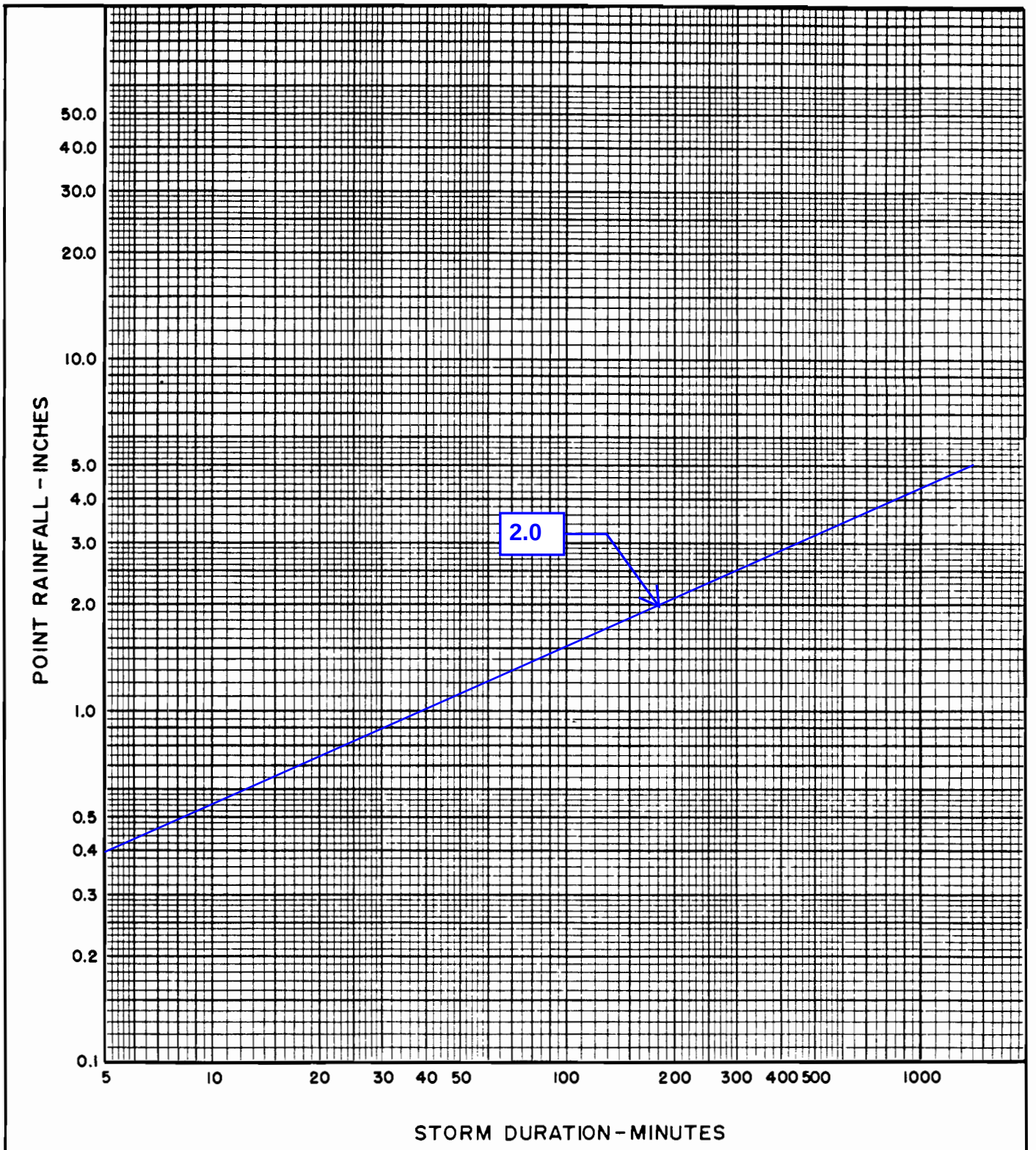
PROJECT LOCATION = SAN BERNARDINO

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

INTENSITY - DURATION CURVES CALCULATION SHEET

FIGURE D-3



PROJECT LOCATION Fontana

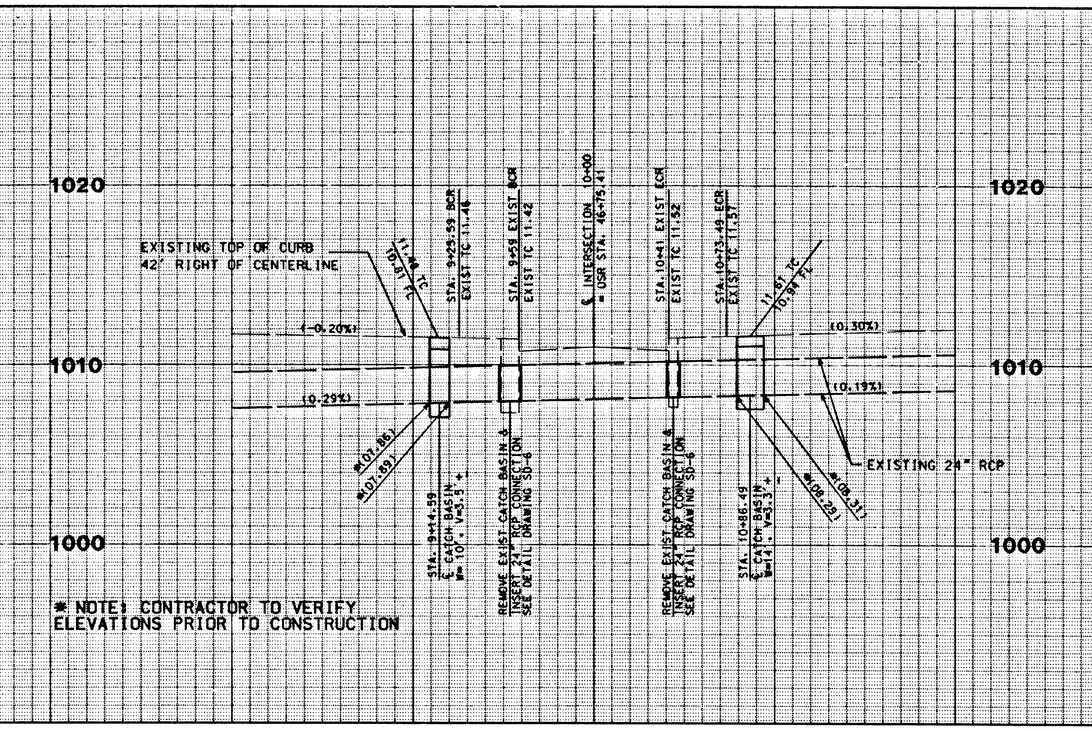
NOTES

SAN BERNARDINO COUNTY

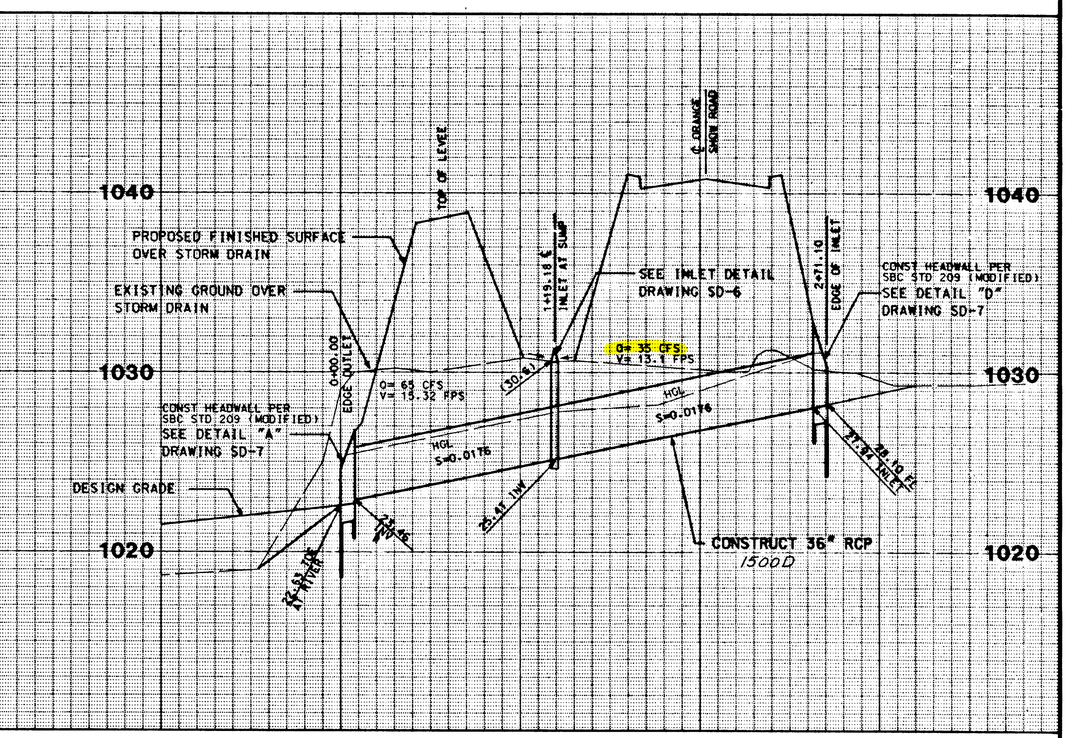
HYDROLOGY MANUAL

AREA - AVERAGED MASS RAINFALL PLOTTING SHEET

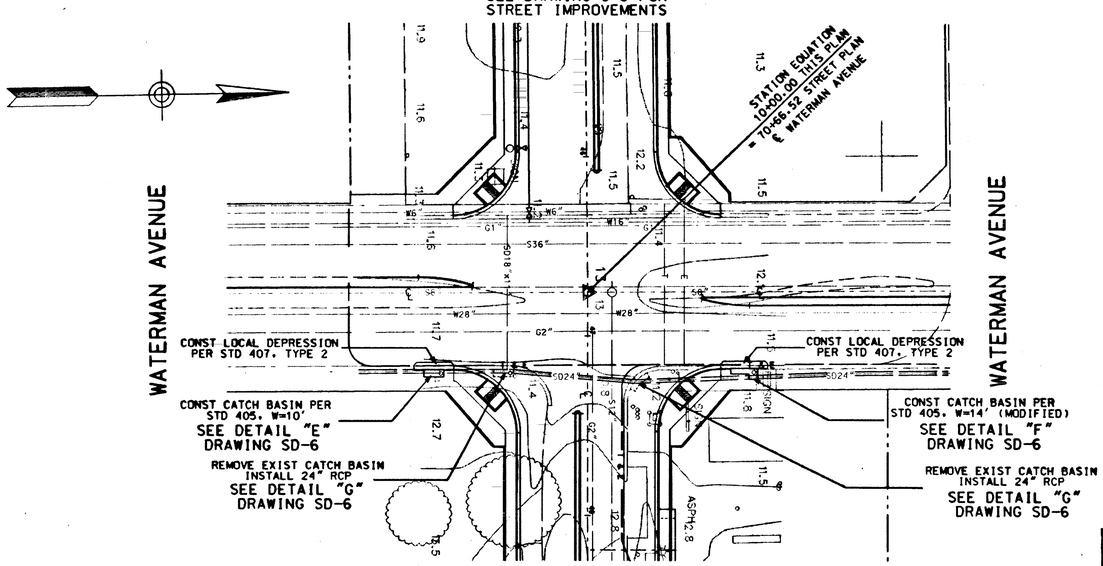
FIGURE E-8

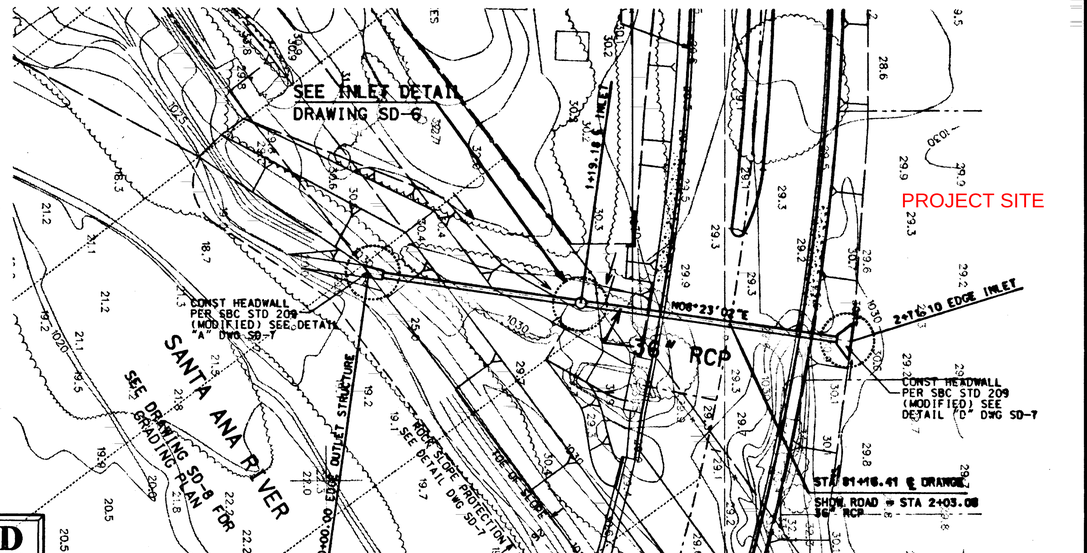


PROFILE
SCALES: HORIZ: 1"= 40'
VERT: 1"= 4'



PLAN
SCALE: 1"= 40'





ORANGE SHOW ROAD
SEE DRAWING C-9 FOR STREET IMPROVEMENTS

AS RECORD
NO NOTED DEVIATIONS FROM PLANS
APPROVED RCE 27006 DATE 7/19/02
EXP 8-31-05

WATERMAN AVENUE RECONSTRUCTION

STORM DRAIN NO. 2

Underground Service Alert
DIAL BEFORE YOU DIG
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER TERRANCE A. LANE No. 24838 CIVIL EXPIRES 12-31-97 STATE OF CALIFORNIA

PLANS PREPARED BY:
DMJM
PLANNING ARCHITECTURE ENGINEERING PROGRAM MGMT.
275 WEST HOSPITALITY LANE, SUITE 314
SAN BERNARDINO CA 92408
(909)889-3466
TERRANCE A. LANE, R.C.E. 24838
MY LICENSE EXPIRES 12-31-97
10/5/95 DATE

DMJM JOB NO. 2153.01

MARK	REVISIONS	BY	APPR.	DATE
	NO NOTED DEVIATIONS FROM PLANS	MM	DMJM	7/19/02

APPROVED 4-23 1996
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
REGISTERED CIVIL ENGINEER NO. 23014
MY LICENSE EXPIRES 12-31-97

DRAWN BY: E LEWIS
CHECKED BY: D GOODMAN
RECOMMENDED BY: T LANE

CITY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
ORANGE SHOW ROAD EXTENSION
STORM DRAIN PLANS
STORM DRAIN NO. 2
WATERMAN AVENUE RECONSTRUCTION

CITY FILE NO 9142
DRAWING NO SD-3
SHEET 21 OF 79 SHEETS

2-396

PLOT TIME: 06-OCT-1995 14:36 G:\M2153\83\swt003.dgn

APPENDIX B

HYDROLOGY CALCULATIONS

```
************************************************************************
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            Ver. 23.0  Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:




 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB NO. 4106                                                      *
* EXISTING CONDITION (NODES 100-101)                                    *
* 100-YEAR STORM EVENT                                                  *
 ************************************************************************

  FILE NAME: W:\4106\X100.DAT
  TIME/DATE OF STUDY: 13:54 08/08/2022
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   932.00
  ELEVATION DATA: UPSTREAM(FEET) =   1036.80  DOWNSTREAM(FEET) =   1027.20

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.697
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.334
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  ".4 DWELLING/ACRE"         A        3.07      0.74     0.900    52   18.74
  COMMERCIAL                 A        3.07      0.74     0.100    52   11.70
  NATURAL POOR COVER
  "BARREN"                   A        1.93      0.18     1.000    93   20.20
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.53
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.620
  SUBAREA RUNOFF(CFS) =     21.85
  TOTAL AREA(ACRES) =      8.07   PEAK FLOW RATE(CFS) =     21.85
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        8.1  TC(MIN.) =     11.70
  EFFECTIVE AREA(ACRES) =      8.07  AREA-AVERAGED Fm(INCH/HR)=  0.33
  AREA-AVERAGED Fp(INCH/HR) =  0.53  AREA-AVERAGED Ap = 0.620
```

```
  PEAK FLOW RATE(CFS)   =      21.85
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
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                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4106                                                        *
* EXISTING CONDITION                                                  *
* X200                                                                *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4106\X200.DAT
  TIME/DATE OF STUDY: 17:38 06/20/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   503.00
  ELEVATION DATA: UPSTREAM(FEET) =   1037.53  DOWNSTREAM(FEET) =   1032.66

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.254
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.837
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL POOR COVER
  "BARREN"                     A        1.69      0.14       1.00    93   15.98
  COMMERCIAL                   A        1.47      0.80       0.10    52    9.25
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.19
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.58
  SUBAREA RUNOFF(CFS) =     10.59
  TOTAL AREA(ACRES) =      3.16   PEAK FLOW RATE(CFS) =     10.59
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      3.16  TC(MIN.) =      9.25
  EFFECTIVE AREA(ACRES) =      3.16  AREA-AVERAGED Fm(INCH/HR)=  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.19  AREA-AVERAGED Ap =  0.58
  PEAK FLOW RATE(CFS)   =     10.59
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
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                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4016                                                        *
* EXISTING CONDITION                                                  *
* X300                                                                *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4106\X300.DAT
  TIME/DATE OF STUDY: 17:40 06/20/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   709.00
  ELEVATION DATA: UPSTREAM(FEET) =   1037.11  DOWNSTREAM(FEET) =   1027.89

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   10.007
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.661
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL FAIR COVER
  "GRASS"                    A        1.77      0.55      1.00    70   23.24
  COMMERCIAL                 A        4.81      0.80      0.10    52   10.01
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.60
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.34
  SUBAREA RUNOFF(CFS) =     20.46
  TOTAL AREA(ACRES) =      6.58   PEAK FLOW RATE(CFS) =     20.46
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      6.58  TC(MIN.) =     10.01
  EFFECTIVE AREA(ACRES) =      6.58  AREA-AVERAGED Fm(INCH/HR)=  0.21
  AREA-AVERAGED Fp(INCH/HR) =  0.60  AREA-AVERAGED Ap =  0.34
  PEAK FLOW RATE(CFS)   =     20.46
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
**************************************************************************
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                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4106                                                        *
* EXISTING CONDITION                                                  *
* X400 OFFSITE (RUN ON CFS)                                           *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4106\X400.DAT
  TIME/DATE OF STUDY: 17:42 06/20/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   575.00
  ELEVATION DATA: UPSTREAM(FEET) =   1040.35  DOWNSTREAM(FEET) =   1034.68

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.727
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.724
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.14      0.80       0.10    52    9.73
  NATURAL POOR COVER
  "BARREN"                   A        0.26      0.14       1.00    93   16.80
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.44
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.20
  SUBAREA RUNOFF(CFS) =      7.86
  TOTAL AREA(ACRES) =      2.40   PEAK FLOW RATE(CFS) =      7.86
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      2.40  TC(MIN.) =      9.73
  EFFECTIVE AREA(ACRES) =      2.40  AREA-AVERAGED Fm(INCH/HR)=  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.44  AREA-AVERAGED Ap =  0.20
  PEAK FLOW RATE(CFS)   =      7.86
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
******************************************************************************
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                           Analysis prepared by:




 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB NO. 4106                                                      *
* PROPOSED CONDITION (NODES 100-204)                                    *
* 100-YEAR STORM EVENT                                                  *
 ************************************************************************

  FILE NAME: W:\4106\P100.DAT
  TIME/DATE OF STUDY: 14:53 08/26/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

******************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   707.00
  ELEVATION DATA: UPSTREAM(FEET) =   1033.48  DOWNSTREAM(FEET) =   1027.76

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   10.991
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.461
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        1.34      0.74     0.100    52   10.99
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      4.08
  TOTAL AREA(ACRES) =      1.34   PEAK FLOW RATE(CFS) =      4.08

******************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    104.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1023.76  DOWNSTREAM(FEET) =  1021.45
  FLOW LENGTH(FEET) =   912.00   MANNING'S N =  0.012
```

```
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   0.72
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.08
  PIPE TRAVEL TIME(MIN.) =  21.24    Tc(MIN.) =   32.23
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1619.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   32.23
  RAINFALL INTENSITY(INCH/HR) =   1.81
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.34
  TOTAL STREAM AREA(ACRES) =       1.34
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       4.08

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   198.00
  ELEVATION DATA: UPSTREAM(FEET) =   1033.22  DOWNSTREAM(FEET) =   1029.52

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.588
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.194
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.07      0.74     0.100    52    5.59
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      9.54
  TOTAL AREA(ACRES) =      2.07   PEAK FLOW RATE(CFS) =      9.54

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1025.52  DOWNSTREAM(FEET) =  1021.45
  FLOW LENGTH(FEET) =    32.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  17.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.85
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       9.54
  PIPE TRAVEL TIME(MIN.) =   0.14    Tc(MIN.) =    5.73
  LONGEST FLOWPATH FROM NODE    102.00 TO NODE    104.00 =     230.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    5.73
  RAINFALL INTENSITY(INCH/HR) =   5.12
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.07
  TOTAL STREAM AREA(ACRES) =       2.07
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       9.54

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
```

```
      1        4.08   32.23    1.815  0.74( 0.07) 0.10       1.3     100.00
      2        9.54    5.73    5.118  0.74( 0.07) 0.10       2.1     102.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       11.64    5.73    5.118  0.74( 0.07) 0.10       2.3     102.00
      2        7.38   32.23    1.815  0.74( 0.07) 0.10       3.4     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      11.64    Tc(MIN.) =     5.73
  EFFECTIVE AREA(ACRES) =       2.31   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        3.4
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1619.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1021.45  DOWNSTREAM(FEET) =  1021.08
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  54.0 INCH PIPE IS  40.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   0.92
  ESTIMATED PIPE DIAMETER(INCH) =  54.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      11.64
  PIPE TRAVEL TIME(MIN.) =   2.71    Tc(MIN.) =    8.44
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    1769.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.44
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.056
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.57      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.57      SUBAREA RUNOFF(CFS) =    5.63
  EFFECTIVE AREA(ACRES) =      3.88   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        5.0       PEAK FLOW RATE(CFS) =      13.90

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1021.08  DOWNSTREAM(FEET) =  1020.70
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  57.0 INCH PIPE IS  42.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   0.97
  ESTIMATED PIPE DIAMETER(INCH) =  57.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      13.90
  PIPE TRAVEL TIME(MIN.) =   2.57    Tc(MIN.) =   11.01
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1919.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   11.01
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.457
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.25      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
```

```
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.25      SUBAREA RUNOFF(CFS) =    3.81
  EFFECTIVE AREA(ACRES) =      5.13   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.2       PEAK FLOW RATE(CFS) =      15.61

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1020.70  DOWNSTREAM(FEET) =  1020.33
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  60.0 INCH PIPE IS  44.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   0.99
  ESTIMATED PIPE DIAMETER(INCH) =  60.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      15.61
  PIPE TRAVEL TIME(MIN.) =   2.52    Tc(MIN.) =   13.53
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    2069.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   13.53
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.055
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.57      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.57      SUBAREA RUNOFF(CFS) =    4.21
  EFFECTIVE AREA(ACRES) =      6.70   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        7.8       PEAK FLOW RATE(CFS) =      17.97

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1020.33  DOWNSTREAM(FEET) =  1019.95
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  63.0 INCH PIPE IS  47.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   1.04
  ESTIMATED PIPE DIAMETER(INCH) =  63.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      17.97
  PIPE TRAVEL TIME(MIN.) =   2.41    Tc(MIN.) =   15.94
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    2219.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   15.94
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.768
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.55      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.55      SUBAREA RUNOFF(CFS) =    3.76
  EFFECTIVE AREA(ACRES) =      8.25   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        9.4       PEAK FLOW RATE(CFS) =      20.00

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1019.95  DOWNSTREAM(FEET) =  1019.58
```

```
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  66.0 INCH PIPE IS  49.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   1.05
  ESTIMATED PIPE DIAMETER(INCH) =  66.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.00
  PIPE TRAVEL TIME(MIN.) =   2.37    Tc(MIN.) =   18.31
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2369.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   18.31
  RAINFALL INTENSITY(INCH/HR) =   2.55
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       8.25
  TOTAL STREAM AREA(ACRES) =       9.35
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      20.00

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    110.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   357.00
  ELEVATION DATA: UPSTREAM(FEET) =   1034.82  DOWNSTREAM(FEET) =   1029.52

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.407
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.386
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.89      0.74     0.100    52    7.41
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     11.21
  TOTAL AREA(ACRES) =      2.89   PEAK FLOW RATE(CFS) =     11.21

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1023.76  DOWNSTREAM(FEET) =  1019.58
  FLOW LENGTH(FEET) =    32.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.11
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      11.21
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    7.54
  LONGEST FLOWPATH FROM NODE    109.00 TO NODE    111.00 =     389.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.54
  RAINFALL INTENSITY(INCH/HR) =   4.34
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.89
  TOTAL STREAM AREA(ACRES) =       2.89
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      11.21

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
```

```
 NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
    1       20.00   18.31    2.548  0.74( 0.07) 0.10       8.2     102.00
    1       12.05   46.69    1.453  0.74( 0.07) 0.10       9.4     100.00
    2       11.21    7.54    4.340  0.74( 0.07) 0.10       2.9     109.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
    1       25.41    7.54    4.340  0.74( 0.07) 0.10       6.3     109.00
    2       26.50   18.31    2.548  0.74( 0.07) 0.10      11.1     102.00
    3       15.67   46.69    1.453  0.74( 0.07) 0.10      12.2     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      26.50    Tc(MIN.) =    18.31
  EFFECTIVE AREA(ACRES) =      11.14   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       12.2
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2369.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1019.58  DOWNSTREAM(FEET) =  1019.50
  FLOW LENGTH(FEET) =    34.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  72.0 INCH PIPE IS  57.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   1.10
  ESTIMATED PIPE DIAMETER(INCH) =  72.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      26.50
  PIPE TRAVEL TIME(MIN.) =   0.52    Tc(MIN.) =   18.83
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    203.00 =    2403.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   18.83
  RAINFALL INTENSITY(INCH/HR) =   2.51
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      11.14
  TOTAL STREAM AREA(ACRES) =      12.24
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      26.50

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   584.00
  ELEVATION DATA: UPSTREAM(FEET) =   1039.25  DOWNSTREAM(FEET) =   1031.19

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.151
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.863
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        2.10      0.74     0.100    52    9.15
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      7.16
  TOTAL AREA(ACRES) =      2.10   PEAK FLOW RATE(CFS) =      7.16

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1027.19  DOWNSTREAM(FEET) =  1024.44
  FLOW LENGTH(FEET) =    18.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  15.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.85
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.16
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =    9.23
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     602.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1024.44  DOWNSTREAM(FEET) =  1019.50
  FLOW LENGTH(FEET) =   288.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   1.71
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.16
  PIPE TRAVEL TIME(MIN.) =   2.80    Tc(MIN.) =   12.03
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     890.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   12.03
  RAINFALL INTENSITY(INCH/HR) =   3.28
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.10
  TOTAL STREAM AREA(ACRES) =       2.10
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       7.16

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       25.41    8.05    4.171  0.74( 0.07) 0.10       6.3     109.00
      1       26.50   18.83    2.506  0.74( 0.07) 0.10      11.1     102.00
      1       15.67   47.27    1.442  0.74( 0.07) 0.10      12.2     100.00
      2        7.16   12.03    3.278  0.74( 0.07) 0.10       2.1     200.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       31.54    8.05    4.171  0.74( 0.07) 0.10       7.7     109.00
      2       32.97   12.03    3.278  0.74( 0.07) 0.10      10.2     200.00
      3       31.94   18.83    2.506  0.74( 0.07) 0.10      13.2     102.00
      4       18.73   47.27    1.442  0.74( 0.07) 0.10      14.3     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      32.97    Tc(MIN.) =    12.03
  EFFECTIVE AREA(ACRES) =      10.18   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       14.3
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    203.00 =    2403.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1019.50  DOWNSTREAM(FEET) =  1019.12
  FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  78.0 INCH PIPE IS  62.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   1.16
  ESTIMATED PIPE DIAMETER(INCH) =  78.00    NUMBER OF PIPES =   1
```

```
  PIPE-FLOW(CFS) =      32.97
  PIPE TRAVEL TIME(MIN.) =   2.29    Tc(MIN.) =   14.32
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    204.00 =    2563.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   14.32
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.952
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.14      0.74     0.100    52
  NATURAL POOR COVER
  "BARREN"                   A        0.26      0.18     1.000    93
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.43
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.197
  SUBAREA AREA(ACRES) =    2.40      SUBAREA RUNOFF(CFS) =    6.19
  EFFECTIVE AREA(ACRES) =     12.58   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.64  AREA-AVERAGED Ap =  0.12
  TOTAL AREA(ACRES) =       16.7       PEAK FLOW RATE(CFS) =      32.97
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   14.32
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.952
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.21      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    0.54
  EFFECTIVE AREA(ACRES) =     12.79   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.65  AREA-AVERAGED Ap =  0.12
  TOTAL AREA(ACRES) =       16.9       PEAK FLOW RATE(CFS) =      33.10
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       16.9  TC(MIN.) =     14.32
  EFFECTIVE AREA(ACRES) =     12.79  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.65  AREA-AVERAGED Ap = 0.118
  PEAK FLOW RATE(CFS)   =      33.10

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       32.55   10.35    3.588  0.63( 0.08) 0.12      10.3     109.00
      2       33.10   14.32    2.952  0.65( 0.08) 0.12      12.8     200.00
      3       32.27   21.12    2.339  0.66( 0.08) 0.11      15.8     102.00
      4       20.14   49.91    1.396  0.67( 0.08) 0.11      16.9     100.00
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
************************************************************************
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                          Analysis prepared by:




 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB NO. 4106                                                      *
* EXISTING CONDITION (NODES 500-501)                                    *
* 100-YEAR STORM EVENT                                                  *
 ************************************************************************

  FILE NAME: W:\4106\X500.DAT
  TIME/DATE OF STUDY: 14:07 08/08/2022
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   268.00
  ELEVATION DATA: UPSTREAM(FEET) =   1033.73  DOWNSTREAM(FEET) =   1030.71

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.179
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.426
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  ".4 DWELLING/ACRE"         A        0.58      0.74     0.900    52   11.18
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.900
  SUBAREA RUNOFF(CFS) =      1.44
  TOTAL AREA(ACRES) =      0.58   PEAK FLOW RATE(CFS) =      1.44
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.6  TC(MIN.) =     11.18
  EFFECTIVE AREA(ACRES) =      0.58  AREA-AVERAGED Fm(INCH/HR)=  0.67
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.900
  PEAK FLOW RATE(CFS)   =       1.44
========================================================================
========================================================================
```

END OF RATIONAL METHOD ANALYSIS

```
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                           Analysis prepared by:




 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB NO. 4106                                                      *
* PROPOSED CONDITION (NODES 400-401)                                    *
* 100-YEAR STORM EVENT                                                  *
 ************************************************************************

  FILE NAME: W:\4106\P400.DAT
  TIME/DATE OF STUDY: 16:25 08/24/2022
==============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

******************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   183.00
  ELEVATION DATA: UPSTREAM(FEET) =   1032.42  DOWNSTREAM(FEET) =   1028.05

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.155
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.451
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.28      0.74     0.100    52    5.16
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      1.35
  TOTAL AREA(ACRES) =      0.28   PEAK FLOW RATE(CFS) =      1.35
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.3  TC(MIN.) =      5.16
  EFFECTIVE AREA(ACRES) =      0.28  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =       1.35
==============================================================================
==============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
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                          Analysis prepared by:




 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB NO. 4106                                                      *
* PROPOSED CONDITION (NODES 500-501)                                    *
* 100-YEAR STORM EVENT                                                  *
 ************************************************************************

  FILE NAME: W:\4106\P500.DAT
  TIME/DATE OF STUDY: 16:29 08/24/2022
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   140.00
  ELEVATION DATA: UPSTREAM(FEET) =   1032.42  DOWNSTREAM(FEET) =   1029.88

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.552
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.12      0.74     0.100    52    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.59
  TOTAL AREA(ACRES) =      0.12   PEAK FLOW RATE(CFS) =      0.59
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.1  TC(MIN.) =      5.00
  EFFECTIVE AREA(ACRES) =      0.12  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =       0.59
========================================================================
========================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
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 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB NO. 4106                                                      *
* PROPOSED CONDITION (NODES 600-601)                                    *
* 100-YEAR STORM EVENT                                                  *
 ************************************************************************

  FILE NAME: W:\4106\P600.DAT
  TIME/DATE OF STUDY: 16:32 08/24/2022
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2500

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   224.00
  ELEVATION DATA: UPSTREAM(FEET) =   1032.42  DOWNSTREAM(FEET) =   1027.76

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.746
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.107
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        1.81      0.74     0.100    52    5.75
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      8.20
  TOTAL AREA(ACRES) =      1.81   PEAK FLOW RATE(CFS) =      8.20
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        1.8  TC(MIN.) =      5.75
  EFFECTIVE AREA(ACRES) =      1.81  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =       8.20
========================================================================
========================================================================
  END OF RATIONAL METHOD ANALYSIS
```

APPENDIX C

DETENTION CALCULATIONS

```
**************************************************************************
          NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
                    AND LOW LOSS FRACTION ESTIMATIONS
==========================================================================
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                          Analysis prepared by:




**************************************************************************
--------------------------------------------------------------------------

 Problem Descriptions:
  TEI JOB NO. 4106
  PROPOSED CONDITION
  LOSS RATES
==========================================================================
*** NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
    AND LOW LOSS FRACTION ESTIMATIONS FOR AMC III:

    TOTAL 24-HOUR DURATION RAINFALL DEPTH =     5.00 (inches)

    SOIL-COVER     AREA      PERCENT OF    SCS CURVE    LOSS RATE
       TYPE      (Acres)   PERVIOUS AREA     NUMBER    Fp(in./hr.)    YIELD
         1         15.14       10.00       32.(AMC II)     0.742       0.873

    TOTAL AREA (Acres) =     15.14

    AREA-AVERAGED LOSS RATE, Fm (in./hr.) =  0.074

    AREA-AVERAGED LOW LOSS FRACTION, Y = 0.127
==========================================================================
```

JOB #4106
TRUCK YARD DETENTION VOLUME

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)	Discharge (cfs)
1029.52	0.00	0				
			10	10	0.00	21.0
1029.60	0.08	1,470				
			1,859	1,869	0.04	22.0
1029.80	0.28	17,124				
			6,380	8,249	0.19	23.0
1030.00	0.48	46,674				
			11,932	20,181	0.46	24.0
1030.20	0.68	72,643				
			3,067	23,248	0.53	25.2
1030.24	0.72	80,719				

```
******************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==============================================================================
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                          Analysis prepared by:




******************************************************************************
------------------------------------------------------------------------------

 Problem Descriptions:
  TEI JOB NO. 4106
  PROPOSED CONDITION
  TRUCK YARD DETENTION HYDROGRAPH
------------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =   15.14
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.074
    LOW LOSS FRACTION = 0.127
    TIME OF CONCENTRATION(MIN.) = 17.46
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.47
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.98
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.25
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  2.00
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  2.50
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.00

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

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     5.03
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     1.28

******************************************************************************
  TIME      VOLUME        Q    0.       10.0      20.0      30.0      40.0
 (HOURS)     (AF)      (CFS)
------------------------------------------------------------------------------
  0.29      0.0149      1.24  .Q        .         .         .         .
  0.58      0.0449      1.25  .Q        .         .         .         .
  0.87      0.0752      1.26  .Q        .         .         .         .
  1.16      0.1057      1.28  .Q        .         .         .         .
  1.45      0.1366      1.29  .Q        .         .         .         .
  1.74      0.1677      1.30  .Q        .         .         .         .
  2.03      0.1992      1.31  .Q        .         .         .         .
  2.32      0.2310      1.33  .Q        .         .         .         .
  2.61      0.2631      1.34  .Q        .         .         .         .
  2.91      0.2955      1.36  .Q        .         .         .         .
  3.20      0.3284      1.37  .Q        .         .         .         .
  3.49      0.3616      1.39  .Q        .         .         .         .
  3.78      0.3951      1.40  .Q        .         .         .         .
  4.07      0.4291      1.42  .Q        .         .         .         .
  4.36      0.4635      1.43  .Q        .         .         .         .
  4.65      0.4983      1.46  .Q        .         .         .         .
  4.94      0.5335      1.47  .Q        .         .         .         .
```

5.23	0.5692	1.50	.Q
5.52	0.6054	1.51	.Q
5.82	0.6420	1.54	.Q
6.11	0.6792	1.55	.Q
6.40	0.7169	1.58	.Q
6.69	0.7552	1.60	.Q
6.98	0.7941	1.63	.Q
7.27	0.8335	1.65	.Q
7.56	0.8737	1.69	.Q
7.85	0.9145	1.71	.Q
8.14	0.9560	1.75	.Q
8.43	0.9983	1.77	.Q
8.73	1.0413	1.81	.Q
9.02	1.0852	1.84	.Q
9.31	1.1300	1.89	.Q
9.60	1.1758	1.92	.Q
9.89	1.2226	1.97	.Q
10.18	1.2704	2.01	. Q
10.47	1.3194	2.07	. Q
10.76	1.3697	2.11	. Q
11.05	1.4213	2.19	. Q
11.34	1.4744	2.23	. Q
11.64	1.5291	2.32	. Q
11.93	1.5856	2.37	. Q
12.22	1.6374	1.94	.Q
12.51	1.6806	1.66	.Q
12.80	1.7220	1.78	.Q
13.09	1.7658	1.86	.Q
13.38	1.8125	2.03	. Q
13.67	1.8624	2.13	. Q
13.96	1.9165	2.37	. Q
14.25	1.9785	2.78	. Q
14.55	2.0575	3.79	. Q
14.84	2.1521	4.07	. Q
15.13	2.2596	4.87	. Q
15.42	2.3838	5.46	. Q
15.71	2.5286	6.58	. Q
16.00	2.7359	10.65	. Q
16.29	3.2913	35.54	. . Q
16.58	3.7891	5.86	. Q
16.87	3.9127	4.42	. Q
17.16	4.0087	3.56	. Q
17.45	4.0784	2.24	. Q
17.75	4.1286	1.94	.Q
18.04	4.1726	1.72	.Q
18.33	4.2224	2.43	. Q
18.62	4.2789	2.27	. Q
18.91	4.3321	2.15	. Q
19.20	4.3824	2.04	. Q
19.49	4.4303	1.94	.Q
19.78	4.4760	1.86	.Q
20.07	4.5200	1.79	.Q
20.36	4.5623	1.73	.Q
20.66	4.6031	1.67	.Q
20.95	4.6426	1.62	.Q
21.24	4.6809	1.57	.Q
21.53	4.7180	1.52	.Q
21.82	4.7542	1.48	.Q
22.11	4.7895	1.45	.Q
22.40	4.8238	1.41	.Q
22.69	4.8574	1.38	.Q
22.98	4.8902	1.35	.Q
23.27	4.9224	1.32	.Q
23.57	4.9538	1.30	.Q
23.86	4.9847	1.27	.Q

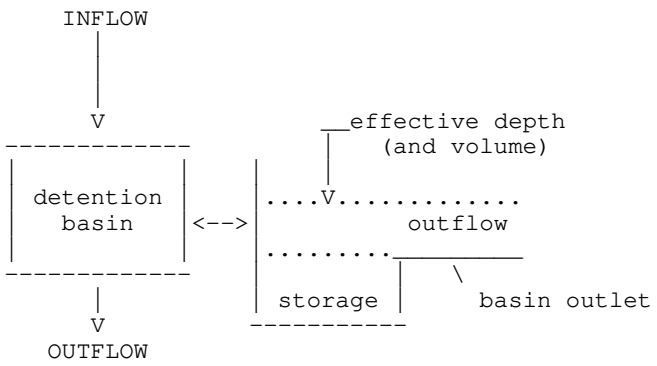
```
 24.15      5.0149      1.25  .Q        .         .         .         .
 24.44      5.0299      0.00  Q         .         .         .         .
 ----------------------------------------------------------------------
-------------------------------------------------------------------------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)

    Percentile of Estimated                Duration
        Peak Flow Rate                     (minutes)
    ======================                 =========
              0%                            1449.2
             10%                             174.6
             20%                              34.9
             30%                              17.5
             40%                              17.5
             50%                              17.5
             60%                              17.5
             70%                              17.5
             80%                              17.5
             90%                              17.5

  Problem Descriptions:
   TEI JOB NO. 4106
   PROPOSED CONDITION
   TRUCK YARD DETENTION HYDROGRAPH


===============================================================================
     FLOW-THROUGH DETENTION BASIN MODEL

     SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
     CONSTANT HYDROGRAPH TIME UNIT(MINUTES) =   17.460
     DEAD STORAGE(AF) =       0.00
     SPECIFIED DEAD STORAGE(AF) FILLED =       0.00
     ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN =    0.00
```




```
     DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
     TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES =   7
     *BASIN-DEPTH  STORAGE    OUTFLOW  **BASIN-DEPTH  STORAGE    OUTFLOW  *
     *   (FEET)  (ACRE-FEET)   (CFS)   **   (FEET)  (ACRE-FEET)   (CFS)   *
     *      0.000      0.000      0.000**      0.080      0.010     23.000*
     *      0.280      0.040     24.000**      0.480      0.190     25.000*
     *      0.680      0.460     26.000**      0.880      0.820     27.000*
     *      1.010      1.060     28.000**
-------------------------------------------------------------------------------
     BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:
```

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.08	-0.26657	0.28657
3	0.28	-0.24860	0.32860
4	0.48	-0.11062	0.49062
5	0.68	0.14736	0.77264
6	0.88	0.49533	1.14467
7	1.01	0.72331	1.39669

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:

NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

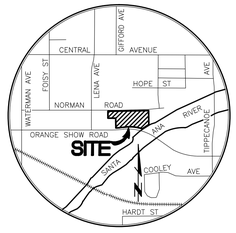
TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.286	0.000	1.24	0.01	1.20	0.001
0.577	0.000	1.25	0.01	2.41	0.001
0.868	0.000	1.26	0.01	2.43	0.001
1.159	0.000	1.28	0.01	2.45	0.001
1.450	0.000	1.29	0.01	2.48	0.001
1.741	0.000	1.30	0.01	2.50	0.001
2.032	0.000	1.31	0.01	2.53	0.001
2.323	0.000	1.33	0.01	2.55	0.001
2.614	0.000	1.34	0.01	2.58	0.001
2.905	0.000	1.36	0.01	2.61	0.001
3.196	0.000	1.37	0.01	2.63	0.001
3.487	0.000	1.39	0.01	2.66	0.001
3.778	0.000	1.40	0.01	2.69	0.001
4.069	0.000	1.42	0.01	2.73	0.001
4.360	0.000	1.43	0.01	2.76	0.001
4.651	0.000	1.46	0.01	2.79	0.001
4.942	0.000	1.47	0.01	2.83	0.001
5.233	0.000	1.50	0.01	2.86	0.001
5.524	0.000	1.51	0.01	2.90	0.001
5.815	0.000	1.54	0.01	2.94	0.001
6.106	0.000	1.55	0.01	2.98	0.001
6.397	0.000	1.58	0.01	3.03	0.001
6.688	0.000	1.60	0.01	3.07	0.001
6.979	0.000	1.63	0.01	3.12	0.001
7.270	0.000	1.65	0.01	3.17	0.001
7.561	0.000	1.69	0.01	3.22	0.001
7.852	0.000	1.71	0.01	3.27	0.001
8.143	0.000	1.75	0.01	3.33	0.001
8.434	0.000	1.77	0.01	3.39	0.001
8.725	0.000	1.81	0.01	3.46	0.002
9.016	0.000	1.84	0.01	3.52	0.002
9.307	0.000	1.89	0.01	3.60	0.002
9.598	0.000	1.92	0.01	3.67	0.002
9.889	0.000	1.97	0.01	3.75	0.002
10.180	0.000	2.01	0.01	3.84	0.002
10.471	0.000	2.07	0.01	3.93	0.002
10.762	0.000	2.11	0.01	4.03	0.002
11.053	0.000	2.19	0.01	4.14	0.002
11.344	0.000	2.23	0.01	4.26	0.002
11.635	0.000	2.32	0.02	4.39	0.002
11.926	0.000	2.37	0.02	4.53	0.002
12.217	0.000	1.94	0.01	4.16	0.002
12.508	0.000	1.66	0.01	3.47	0.001
12.799	0.000	1.78	0.01	3.32	0.001
13.090	0.000	1.86	0.01	3.51	0.002
13.381	0.000	2.03	0.01	3.75	0.002

13.672	0.000	2.13	0.01	4.01	0.002
13.963	0.000	2.37	0.02	4.34	0.002
14.254	0.000	2.78	0.02	4.97	0.002
14.545	0.000	3.79	0.03	6.34	0.003
14.836	0.000	4.07	0.03	7.59	0.003
15.127	0.000	4.87	0.03	8.63	0.004
15.418	0.000	5.46	0.04	9.97	0.005
15.709	0.000	6.58	0.04	11.63	0.006
16.000	0.000	10.65	0.07	16.63	0.009
16.291	0.000	35.54	0.72	23.39	0.539
16.582	0.000	5.86	0.33	25.22	0.074
16.873	0.000	4.42	0.03	16.38	0.004
17.164	0.000	3.56	0.02	7.70	0.003
17.455	0.000	2.24	0.02	5.60	0.002
17.746	0.000	1.94	0.01	4.03	0.002
18.037	0.000	1.72	0.01	3.53	0.001
18.328	0.000	2.43	0.02	4.00	0.002
18.619	0.000	2.27	0.02	4.54	0.002
18.910	0.000	2.15	0.01	4.27	0.002
19.201	0.000	2.04	0.01	4.04	0.002
19.492	0.000	1.94	0.01	3.84	0.002
19.783	0.000	1.86	0.01	3.67	0.002
20.074	0.000	1.79	0.01	3.53	0.002
20.365	0.000	1.73	0.01	3.39	0.001
20.656	0.000	1.67	0.01	3.28	0.001
20.947	0.000	1.62	0.01	3.17	0.001
21.238	0.000	1.57	0.01	3.07	0.001
21.529	0.000	1.52	0.01	2.98	0.001
21.820	0.000	1.48	0.01	2.90	0.001
22.111	0.000	1.45	0.01	2.83	0.001
22.402	0.000	1.41	0.01	2.76	0.001
22.693	0.000	1.38	0.01	2.69	0.001
22.984	0.000	1.35	0.01	2.63	0.001
23.275	0.000	1.32	0.01	2.58	0.001
23.566	0.000	1.30	0.01	2.53	0.001
23.857	0.000	1.27	0.01	2.48	0.001
24.148	0.000	1.25	0.01	2.43	0.001
24.439	0.000	0.00	0.00	1.20	0.000
24.730	0.000	0.00	0.00	0.00	0.000

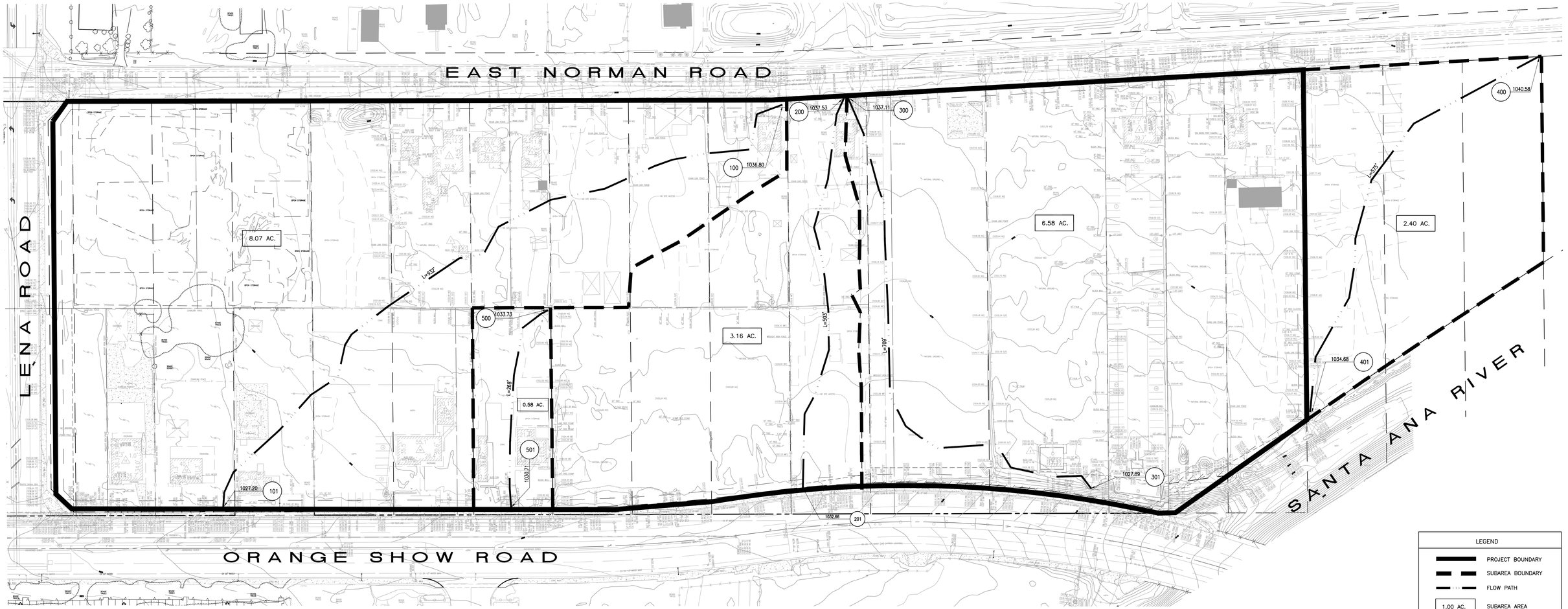
PEAK

APPENDIX D

HYDROLOGY MAP



VICINITY MAP
N.T.S.



LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- FLOW PATH
- 1.00 AC. — SUBAREA AREA
- 1000.00 TC / 100 — NODE DESCRIPTION

SOIL A
RAIN FALL 100 YEAR
1 HOUR = 1.25"
6 HOUR = 2.5"
24 HOUR = 5.0"

SUBAREA DATA SUMMARY

NODES	AREA (ACRES)	SOIL TYPE	Tc (MINUTES)	Q100 (CFS)
100–101	8.07	A	11.70	21.8
200–201	3.16	A	9.25	10.6
300–301	6.58	A	10.01	20.5
400–401	2.40	A	9.73	7.9
500–501	0.58	A	11.18	1.4

0 25 50 100 150
SCALE:1"=50

Last Update: 9/6/22
O:\4100-4199\4106\4106HYD-EX.dwg

CITY OF SAN BERNARDINO
PUBLIC WORKS DEPARTMENT

PRE-DEVELOPED HYDROROLOGY MAP
GATEWAY SOUTH BUILDING 9
SAN BERNARDINO, CA

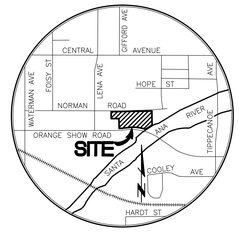
4106/1 OF 1 SHEET

PREPARED FOR:
GATEWAY SOUTH 9 DEVELOPMENT, LLC
36 DISCOVERY, SUITE 130
IRVINE, CA 92618
(909) 382-0033

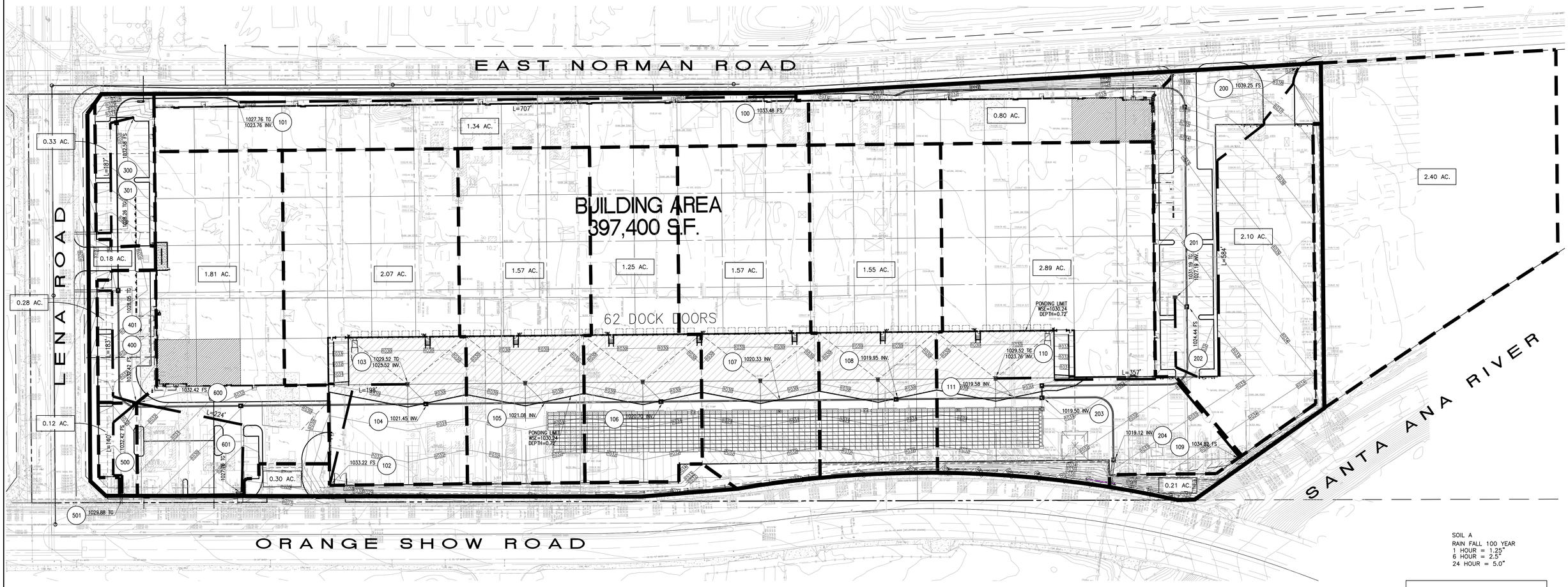
PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX:(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Public Works Director _____ R.C.E. _____

Sheet 1 of 1 Sheets



VICINITY MAP
N.T.S.



SOIL A
RAIN FALL 100 YEAR
1 HOUR = 1.25"
6 HOUR = 2.5"
24 HOUR = 5.0"

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- FLOW PATH
- 1.00 AC. — SUBAREA AREA
- 1000.00 TC / 100 — NODE DESCRIPTION
- PONDING LIMITS

SUBAREA DATA SUMMARY

NODES	AREA (ACRES)	SOIL TYPE	Tc (MINUTES)	Q100 (CFS)
100–204	12.79	A	14.32	33.1
300–301	0.33	A	5.23	1.6
400–401	0.28	A	5.16	1.4
500–501	0.12	A	5.00	1.0
600–601	1.81	A	8.75	8.2

0 20 40 80 120
SCALE:1"=40

Last Update: 9/6/22
O:\4100-4199\4106\4106HYD.dwg

CITY OF SAN BERNARDINO
PUBLIC WORKS DEPARTMENT

PROPOSED HYDROROLOGY MAP
GATEWAY SOUTH BUILDING 9
SAN BERNARDINO, CA

4106/1 OF 1 SHEET

PREPARED FOR:
GATEWAY SOUTH 9 DEVELOPMENT, LLC
36 DISCOVERY, SUITE 130
IRVINE, CA 92618
(909) 382-0033

PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. _____
Sheet 1 of 1 Sheets

Appendix I:

Preliminary Water Quality Management Plan

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

Preliminary
Water Quality Management Plan
(WQMP)

For:

Hillwood Gateway South Building 9
Between Norman Road & Orange Show Road, East of Lena Road
San Bernardino, CA 92408
DP-D 22-XX / THR22-XXX

APNs: 0280-202-007, -008, -009 and -011 & 0280-192-01, -02, -04 thru -13, -16, -18, -19 thru 22, & 0280-172-01, -02, -04, -11, -17, -19 thru -22

Prepared for:
Gateway South 9 Development, LLC
36 Discovery, Suite 130
Irvine, CA 92618
Phone: (909) 382-0033
Contact: Scott Morse

Prepared by:
Thienes Engineering, Inc.
14349 Firestone Boulevard
La Mirada, CA 90638
Phone: (714) 521-4811
Contact: Felipe Vazquez (felipe@thieneseng.com)
Job No. 4106

Approval Date: _____
Implementation Date: _____

1st Submittal: September 6, 2022
2nd Submittal: _____
3rd Submittal: _____

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for ***GWS#9 Development, LLC, a Delaware limited liability company*** by ***Thienes Engineering, Inc***. The WQMP is intended to comply with the requirements of the ***City of San Bernardino*** and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

Project Data			
Permit/Application Number(s):	DP-D 22-XX / THR22-XXX	**Grading Permit Number(s):**	TBD
Tract/Parcel Map Number(s):		**Building Permit Number(s):**	
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):		APNs: 0280-202-007, -008, -009 and -011 & 0280-192-01, -02, -04 thru -13, -16, -18, -19 thru 22, & 0280-172-01, -02, -04, -11, -17, -19 thru -22	

Owner's Signature			
Owner Name: Gateway South 9 Development, LLC			
Title	Scott Morse, Executive Vice President		
Company	Gateway South 9 Development, LLC		
Address	36 Discovery, Suite 130, Irvine, CA 92618		
Email	scott.morse@hillwood.com		
Telephone #	(909) 382-0033		
Signature		**Date**	

Preparer's Certification

Project Data			
Permit/Application Number(s):	DP-D 22-XX / THR22-XXX	**Grading Permit Number(s):**	TBD
Tract/Parcel Map Number(s):		**Building Permit Number(s):**	
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):		APNs: 0280-202-007, -008, -009 and -011 & 0280-192-01, -02, -04 thru -13, -16, -18, -19 thru 22, & 0280-172-01, -02, -04, -11, -17, -19 thru -22	

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer: Reinhard Stenzel		**PE Stamp Below**
Title	Director of Engineering	
Company	Thienes Engineering, Inc.	
Address	14349 Firestone Boulevard, La Mirada, CA 90638	
Email	reinhard@thieneseng.com	
Telephone #	(714) 521-4811	
Signature		

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Attachment E: Educational Materials
Attachment F: Infiltration Report
Attachment G: BMP O&M

Section 1 Discretionary Permit(s)

Form 1-1 Project Information					
Project Name	Hillwood Gateway South Building 9				
Project Owner Contact Name:	Scott Morse				
Mailing Address:	36 Discovery, Suite 130 Irvine, CA 92618	**E-mail Address:**	scott.morse@hillwood.com	**Telephone:**	(909) 382-0033
Permit/Application Number(s):	DP-D 22-XX / THR22-XXX		**Tract/Parcel Map Number(s):**		
Additional Information/ Comments:	n/a				
Description of Project:	The project site encompasses approximately 18.30 acres. Proposed improvements to the site consist of the construction of one commercial building. A truck storage yard will be located along the easterly boundary of the site. Vehicle parking will be generally located along the west and east sides of the building. There will be a truck yard along the south side of the building. Landscaping will be throughout site. The project will generally drain south towards the existing headwall in the southeast corner of the site. The northerly landscape area will have a low spot and collected runoff will be conveyed easterly. Runoff from the northwesterly portion of the roof will be added to the storm drain system as it is conveyed westerly. The proposed storm drain will continue southerly in the western drive aisle and turn east and where the runoff from the bulk of the building and the southern truck yards will be added by a series of catch basins in the truck yard. Runoff from the adjacent site to the east will be picked via catch basin at the southeasterly landscape area. The proposed storm drain will continue east towards the existing headwall and existing 36” storm drain. Prior to discharging to the onsite public storm drain, the site’s DCV will be diverted to the underground chambers for infiltration. Driveways and landscaped areas (0.66 acres) along the westerly, southerly and easterly boundaries will drain off-site without being routed to the LID BMPs.				
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.	n/a				

Section 2 Project Description

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long-term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project

[1] Development Category (Select all that apply):			
☐ Significant re-development involving the addition or replacement of 5,000 ft² or more of impervious surface on an already developed site	☒ New development involving the creation of 10,000 ft² or more of impervious surface collectively over entire site	☐ Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532-7534, 7536-7539	☐ Restaurants (with SIC code 5812) where the land area of development is 5,000 ft² or more
☐ Hillside developments of 5,000 ft² or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more	☐ Developments of 2,500 ft² of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.	☒ Parking lots of 5,000 ft² or more exposed to storm water	☐ Retail gasoline outlets that are either 5,000 ft² or more, or have a projected average daily traffic of 100 or more vehicles per day
☐ Non-Priority / Non-Category Project *May require source control LID BMPs and other LIP requirements. Please consult with local jurisdiction on specific requirements.*			

[2] Project Area (ft²):	797,148 (18.30 acres) *	**[3] Number of Dwelling Units:**	n/a	**[4] SIC Code:**	4225

[5] Is Project going to be phased? ☐Yes ☒No

If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.

[6] Does Project include roads? ☐Yes ☒No

If yes, ensure that applicable requirements for road projects are addressed (see Appendix A of TGD for WQMP)

* Driveways and landscaped areas (0.66 acres) along the westerly, southerly and easterly boundaries will drain off-site without being routed to the LID BMPs. The entire project area is 18.30 acres.

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management

Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:
Gateway South 9 Development, LLC 36 Discovery, Suite 130 Irvine, CA 92618 Phone: (909) 382-0033 Contact: Scott Morse No infrastructure will be transferred to a public agency after project completion. A property owner's association (POA) will not be formed for long-term maintenance of project stormwater facilities.

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern

Pollutant	Circle One: E=Expected, N=Not Expected		Listed for Receiving Water	Additional Information and Comments
Pathogens (Bacterial / Virus)	(E)	N	X	Source: Bacterial indicators are routinely detected in pavement runoff. Impaired water: Santa Ana River, Reach 3 and 4
Nutrients - Phosphorous	(E)	N		Source: Landscaping exists on-site.
Nutrients - Nitrogen	(E)	N		Source: Landscaping exists on-site.
Noxious Aquatic Plants	(E)	N		Source: Landscaping exists on-site.
Sediment	(E)	N		Source: Landscaping exists on-site.
Metals	(E)	N	X	Source: Metal products, wear associated with driving. Impaired water: Santa Ana River, Reach 3
Oil and Grease	(E)	N		Source: Landscaping exists on-site, vehicles present.
Trash / Debris	(E)	N		Source: Landscaping exists on-site.
Pesticides / Herbicides	(E)	N		Source: Landscaping exists on-site.
Organic Compounds	(E)	N	X	Including petroleum hydrocarbons and solvents. Source: Landscaping exists on-site. Impaired water: Santa Ana River, Reach 3
Other:				

The expected POCs for the project site are ***Pathogens, Organic Compounds, and Metals***.

2.4 Water Quality Credits

A water quality credit program is applicable for certain types of development projects if it is not feasible to meet the requirements for on-site LID. Proponents for eligible projects, as described below, can apply for water quality credits that would reduce project obligations for selecting and sizing other treatment BMP or participating in other alternative compliance programs. Refer to Section 6.2 in the TGD for WQMP to determine if water quality credits are applicable for the project.

Form 2.4-1 Water Quality Credits

[1] **Project Types that Qualify for Water Quality Credits:** *Select all that apply*			
☐ Redevelopment projects that reduce the overall impervious footprint of the project site. [Credit = % impervious reduced]	Higher density development projects ☐ Vertical density [20%] ☐ 7 units/ acre [5%]	☐ Mixed use development, (combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that demonstrate environmental benefits not realized through single use projects) [20%]	☐ Brownfield redevelopment (redevelop real property complicated by presence or potential of hazardous contaminants) [25%]
☐ Redevelopment projects in established historic district, historic preservation area, or similar significant core city center areas [10%]	☐ Transit-oriented developments (mixed use residential or commercial area designed to maximize access to public transportation) [20%]	☐ In-fill projects (conversion of empty lots & other underused spaces < 5 acres, substantially surrounded by urban land uses, into more beneficially used spaces, such as residential or commercial areas) [10%]	☐ Live-Work developments (variety of developments designed to support residential and vocational needs) [20%]
[2] **Total Credit %:** n/a *(Total all credit percentages up to a maximum allowable credit of 50 percent)*			
Description of Water Quality Credit Eligibility (if applicable)	n/a		

The proposed project will ***not*** utilize any water quality credits.

Section 3 Site and Watershed Description

Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. Complete form 3.2 for each DA on the project site.

Form 3-1 Site Location and Hydrologic Features

Site coordinates *Take GPS measurement at approximate center of site*	**Latitude:** 34.080657	**Longitude:** -117.269193	**Thomas Bros Map page:** Page 607
[1] San Bernardino County climatic region: ☒Valley ☐Mountain ☐Desert			
[2] Does the site have more than one drainage area (DA): ☐Yes ☒No *If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached.*			

Form 3-2 Existing Hydrologic Characteristics for Drainage Area (DA 1)

For each drainage area's sub-watershed DMA, provide the following characteristics	Hydrology Nodes 100-101	Hydrology Nodes 200-201	Hydrology Nodes 300-301	Hydrology Nodes 500-501
[1] **DMA drainage area (ft^2)**	351,529 (8.07 acres)	137,650 (3.16 acres)	286,625 (6.58 acres)	25,265 (0.58 acres)
[2] **Existing site impervious area (ft^2)**	87,882	13,765	85,987	6,316
[3] **Antecedent moisture condition** *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	AMC II	AMC II	AMC II	AMC II
[4] **Hydrologic soil group** *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	HSG A	HSG A	HSG A	HSG A
[5] **Longest flowpath length (ft)**	932	503	709	268
[6] **Longest flowpath slope (ft/ft)**	0.0103	0.0098	0.0130	0.0113
[7] **Current land cover type(s)** *Select from Fig C-3 of Hydrology Manual*	Residential/ Commercial	Residential/ Barren	Commercial/ Barren	Residential/ Commercial
[8] **Pre-developed pervious area condition:** *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% See Attachment A for photos of site to support rating*	Poor	Poor	Poor	Poor

Form 3-3 Watershed Description

Receiving Waters *Refer to Watershed Mapping Tool - http://sbcounty.permitrack.com/WAP* *See 'Drainage Facilities" link at this website*	Twin Creek Channel Santa Ana River, Reach 5 Santa Ana River, Reach 4 Santa Ana River, Reach 3 Prado Dam Santa Ana River, Reach 2 Santa Ana River, Reach 1 Pacific Ocean
Applicable TMDLs *Refer to Local Implementation Plan*	Twin Creek Channel: None Santa Ana River, Reach 5: None Santa Ana River, Reach 4: None Santa Ana River, Reach 3: Pathogens, Nitrate Prado Dam: Pathogens Santa Ana River, Reach 2: None Santa Ana River, Reach 1: None Pacific Ocean: None
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml*	Twin Creek Channel Santa Ana River, Reach 5: None Santa Ana River, Reach 4: Indicator Bacteria Santa Ana River, Reach 3: Indicator Bacteria, Lead Prado Dam: None Santa Ana River, Reach 2: None Santa Ana River, Reach 1: None Pacific Ocean: None
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	n/a
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	Twin Creek Channel and Santa Ana River
Hydrologic Conditions of Concern	☐ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☒ No
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☒ No

Section 4 Best Management Practices (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	X		Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.
N2	Activity Restrictions	X		No outdoor work areas, processing, storage or wash area. Activities are restricted to only those for which a BMP has been implemented.
N3	Landscape Management BMPs	X		Irrigation must be consistent with San Bernardino's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with County Management Guidelines for Use of Fertilizers and Pesticides.
N4	BMP Maintenance	X		BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.
N5	Title 22 CCR Compliance (How development will comply)		X	No hazardous wastes onsite.
N6	Local Water Quality Ordinances	X		Owner/tenant will be in compliance with Local Water Quality Ordinances.
N7	Spill Contingency Plan	X		Owner/tenant will have a spill contingency plan based on individual site needs.
N8	Underground Storage Tank Compliance		X	No USTs onsite.
N9	Hazardous Materials Disclosure Compliance		X	No hazardous materials onsite.
N10	Uniform Fire Code Implementation	X		Owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency.
N11	Litter/Debris Control Program	X		Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance.
N12	Employee Training	X		The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. Employees shall be trained to clean up minor spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.
N13	Housekeeping of Loading Docks	X		Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. No direct discharges into the storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.
N14	Catch Basin Inspection Program	X		Monthly inspection by property owner's designee. Sumps will be vacuumed when sediment or trash becomes 2-inches deep and disposed of properly.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N15	Vacuum Sweeping of Private Streets and Parking Lots	X		All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.
N16	Other Non-structural Measures for Public Agency Projects		X	Not a public agency project.
N17	Comply with all other applicable NDPES permits	X		Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	X		"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)		X	No outdoor material storage areas onsite.
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	X		Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	X		Irrigation systems shall include shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	X		Landscaped areas will be depressed in order to increase retention of stormwater/irrigation water and promote infiltration.
S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)		X	No onsite channels to protect.
S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)		X	Finished goods being loaded and unloaded at the docks may have the potential to contribute to stormwater pollution in the event of a spill. In lieu of covered docks (which is not practical for a site of this magnitude), a spill contingency plan will be available and employees shall be trained to clean up minor spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)		X	No maintenance bays onsite.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)		X	No vehicle wash areas onsite.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)		X	No outdoor processing areas onsite.
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)		X	No equipment wash areas onsite.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)		X	No fueling areas onsite.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)		X	No hillsides onsite.
S14	Wash water control for food preparation areas		X	No food preparation onsite.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)		X	No community cars wash racks onsite.

4.1.2 Preventive LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventive LID Site Design Practices Checklist

Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets.*	
Minimize impervious areas: ☐Yes ☒No	The project will utilize an underground infiltration facility to collect runoff from impervious areas.
Maximize natural infiltration capacity: ☒Yes ☐No	The infiltration facility is positioned in areas that will maximize the amount of stormwater collected for treatment.
Preserve existing drainage patterns and time of concentration: ☒Yes ☐No	Post-development drainage patterns will mimic pre-development conditions. The infiltration facility will assist in maintaining the existing time of concentration.
Disconnect impervious areas: ☒Yes ☐No	The infiltration facility will disconnect impervious areas before discharging offsite.
Protect existing vegetation and sensitive areas: ☐Yes ☒No	Due to the nature of the project, development of vacant and low residential land, it is not possible to protect existing vegetation. There are also no sensitive areas to protect. See Attachment A for recent site photos.
Re-vegetate disturbed areas: ☐Yes ☒No	Not applicable, development consists of a light industrial facility. Most of the disturbed areas will be paved; however, all disturbed areas will be collected by the infiltration facility for treatment. Landscape will be provided throughout the site.
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: ☒Yes ☐No	Heavy construction vehicles will be prohibited from unnecessary soil compaction around the infiltration facility.
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: ☐Yes ☒No	Underground piping is located at truck and car loading areas that could not be substituted with vegetated swales.
Stake off areas that will be used for landscaping to minimize compaction during construction : ☒Yes ☐No	Landscaped areas will be staked to minimize unnecessary compaction during construction.

4.2 Project Performance Criteria

The purpose of this section of the Project WQMP is to establish targets for post development hydrology based on performance criteria specified in the MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection of any downstream waterbody segments with a HCOC. ***If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.***

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), the San Bernardino County Stormwater Program requires use of the P6 method (MS4 Permit Section XI.D.6a.ii) – Form 4.2-1
- For HCOC pre- and post-development hydrologic calculation, the San Bernardino County Stormwater Program requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi2), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for HCOC performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)

[1] **Project area (ft^2):** 768,398 (17.64 ac. – DA 1 DMA A)*	[2] **Imperviousness after applying preventative site design practices (Imp%):** 95%	[3] **Runoff Coefficient (R_c):** 0.807 *$R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$*
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr-1hr}$ (in):** 0.499 *http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.739 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
[6] **Drawdown Rate** *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] **Compute design capture volume, DCV (ft^3):** 74,947 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

* Driveways and landscaped areas (0.66 acres) along the westerly, southerly and easterly boundaries will drain off-site without being routed to the LID BMPs.

Form 4.2-2 Summary of HCOC Assessment

Does project have the potential to cause or contribute to an HCOC in a downstream channel: ☐Yes ☒No

Go to: http://sbcounty.permitrack.com/WAP/

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below (Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	[1] N/A *Form 4.2-3 Item 12*	[2] N/A *Form 4.2-4 Item 13*	[3] N/A *Form 4.2-5 Item 10*
Post-developed	[4] N/A *Form 4.2-3 Item 13*	[5] N/A *Form 4.2-4 Item 14*	[6] N/A *Form 4.2-5 Item 14*
Difference	[7] N/A *Item 4 – Item 1*	[8] N/A *Item 5 – Item 2*	[9] N/A *Item 6 – Item 3*
Difference (as % of pre-developed)	[10] N/A *Item 7 / Item 1*	[11] N/A *Item 8 / Item 2*	[12] N/A *Item 9 / Item 3*

Form 4.2-3 HCOC Assessment for Runoff Volume

Compute weighted curve number for pre and post developed conditions	Pre-developed DA *Add more columns if more than 4 DMA*				Post-developed DA *Add more columns if more than 4 DMA*			
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[1] Land Cover type	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[2] Hydrologic Soil Group (HSG)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[3] DMA Area, ft^2 *sum of areas of DMA should equal area of DA*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[4] Curve Number (CN) *Use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	[5] Pre-Developed area-weighted CN: N/A				[6] Post-Developed area-weighted CN: N/A			
	[7] Pre-developed soil storage capacity, S (in): N/A *S = (1000 / Item 5) - 10*				[8] Post-developed soil storage capacity, S (in): N/A *S = (1000 / Item 6) – 10*			
	[9] Initial abstraction, I_a (in): N/A *I_a = 0.2 * Item 7*				[10] Initial abstraction, I_a (in): N/A *I_a = 0.2 * Item 8*			
[11] Precipitation for 2 yr, 24 hr storm (in): N/A *Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*								
[12] Pre-developed Volume (ft^3): N/A *V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*								
[13] Post-developed Volume (ft^3): N/A *V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*								
[14] Volume Reduction needed to meet HCOC Requirement, (ft^3): N/A *V_{HCOC} = (Item 13 * 0.95) – Item 12*								

Form 4.2-4 HCOC Assessment for Time of Concentration

Compute time of concentration for pre and post developed conditions for each DA *(For projects using the Hydrology Manual complete the form below)*

Variables	Pre-developed DA *Add more columns if more than 4 DMA*				Post-developed DA *Add more columns if more than 4 DMA*		
	n/a	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**
[1] **Length of flowpath (ft)** *Use Form 3-2 Item 5 for pre-developed condition*	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[2] **Change in elevation (ft)**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[3] **Slope (ft/ft), So = Item 2 / Item 1**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[4] **Land cover**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[5] **Initial DMA Time of Concentration (min)** *Appendix C-1 of the TGD for WQMP*	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[6] **Length of conveyance from DMA outlet to project site outlet (ft)** *May be zero if DMA outlet is at project site outlet*	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[7] **Cross-sectional area of channel (ft2)**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[8] **Wetted perimeter of channel (ft)**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[9] **Manning's roughness of channel (n)**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[10] **Channel flow velocity (ft/sec)** $V_{fps} = (1.49 / \text{Item } 9) * (\text{Item } 7/\text{Item } 8)^{0.67} * (\text{Item } 3)^{0.5}$	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[11] **Travel time to outlet (min)** $T_t = \text{Item } 6 / (\text{Item } 10 * 60)$	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[12] **Total time of concentration (min)** $T_c = \text{Item } 5 + \text{Item } 11$	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[13] **Pre-developed time of concentration (min): N/A** *Minimum of Item 12 pre-developed DMA*							
[14] **Post-developed time of concentration (min): N/A** *Minimum of Item 12 post-developed DMA*							
[15] **Additional time of concentration needed to meet HCOC requirement (min): N/A** $T_{C\text{-}HCOC} = (\text{Item } 14 * 0.95) - \text{Item } 13$							

Form 4.2-5 HCOC Assessment for Peak Runoff

Compute peak runoff for pre and post developed conditions

Variables		Pre-developed DA *Add more columns if more than 3 DMA*			Post-developed DA *Add more columns if more than 3 DMA*		
		n/a	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**
[1] **Rainfall Intensity for storm duration equal to time of concentration** I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.6 LOG Form 4.2-4 Item 5 /60)		n/a	n/a	n/a	n/a	n/a	n/a
[2] **Drainage Area of each DMA (ft2)** *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		n/a	n/a	n/a	n/a	n/a	n/a
[3] **Ratio of pervious area to total area** *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		n/a	n/a	n/a	n/a	n/a	n/a
[4] **Pervious area infiltration rate (in/hr)** *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*		n/a	n/a	n/a	n/a	n/a	n/a
[5] **Maximum loss rate (in/hr)** F_m = Item 3 * Item 4 *Use area-weighted Fm from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		n/a	n/a	n/a	n/a	n/a	n/a
[6] **Peak Flow from DMA (cfs)** Q_p =Item 2 * 0.9 * (Item 1 - Item 5)		n/a	n/a	n/a	n/a	n/a	n/a
[7] **Time of concentration adjustment factor for other DMA to site discharge point** *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	**DMA A**	*n/a*			*n/a*		
	DMA B		*n/a*			*n/a*	
	DMA C			*n/a*			*n/a*

[8] **Pre-developed Q_p at T_c for DMA A:**	[9] **Pre-developed Q_p at T_c for DMA B:**	[10] **Pre-developed Q_p at T_c for DMA C:**
Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} – Item 5_{DMAB}) / (Item 1_{DMAB} - Item 5_{DMAB}) * Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC}) / (Item 1_{DMAC} - Item 5_{DMAC}) * Item $7_{DMAA/3}$]	Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} – Item 5_{DMAA}) / (Item 1_{DMAA} - Item 5_{DMAA}) * Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC}) / (Item 1_{DMAC} - Item 5_{DMAC}) * Item $7_{DMAB/3}$]	Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} – Item 5_{DMAA}) / (Item 1_{DMAA} - Item 5_{DMAA}) * Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB}) / (Item 1_{DMAB} - Item 5_{DMAB}) * Item $7_{DMAC/2}$]

11 Peak runoff from pre-developed condition confluence analysis (cfs): N/A
Maximum of Item 8, 9, and 10

12 Post-developed Q_p at T_c for DMA A:	***13 Post-developed Q_p at T_c for DMA B:***	***14 Post-developed Q_p at T_c for DMA C:***
Same as Item 8 for post-developed values	*Same as Item 9 for post-developed values*	*Same as Item 10 for post-developed values*

15 Peak runoff from post-developed condition confluence analysis (cfs): N/A
Maximum of Item 12, 13, and 14

16 Peak runoff reduction needed to meet HCOC Requirement (cfs): N/A
$Q_{p\text{-}HCOC}$ = (Item 14 * 0.95) – Item 11

4.3 Project Conformance Analysis

Complete the following forms for each project site DA to document that the proposed LID BMPs conform to the project DCV developed to meet performance criteria specified in the MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the MS4 Permit (see Section 5.3.1 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design and Hydrologic Source Controls (Form 4.3-2)
- Retention and Infiltration (Form 4.3-3)
- Harvested and Use (Form 4.3-4) or
- Biotreatment (Form 4.3-5).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2.1 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Forms 4.3-2 and 4.3-4 to determine the feasibility of applicable HSC and harvest and use BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable HSC BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of LID HSC, retention and infiltration, and harvest and use BMPs are unable to mitigate the entire DCV, then biotreatment BMPs may be implemented by the project proponent. If biotreatment BMPs are used, then they must be sized to provide sufficient capacity for effective treatment of the remainder of the volume-based performance criteria that cannot be achieved with LID BMPs (TGD for WQMP Section 5.4.4.2). Under no circumstances shall any portion of the DCV be released from the site without effective mitigation and/or treatment.

Form 4.3-1 Infiltration BMP Feasibility

Feasibility Criterion – Complete evaluation for each DA on the Project Site
[1] **Would infiltration BMP pose significant risk for groundwater related concerns?** ☐Yes ☒No *Refer to Section 5.3.2.1 of the TGD for WQMP*
If Yes, Provide basis: (attach)
[2] **Would installation of infiltration BMP significantly increase the risk of geotechnical hazards?** ☐Yes ☒No *(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):* • *The location is less than 50 feet away from slopes steeper than 15 percent* • *The location is less than eight feet from building foundations or an alternative setback.* • *A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.*
If Yes, Provide basis: (attach)
[3] **Would infiltration of runoff on a Project site violate downstream water rights?** ☐Yes ☒No
If Yes, Provide basis: (attach)
[4] **Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils?** ☐Yes ☒No
If Yes, Provide basis: (attach)
[5] **Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)?** ☐Yes ☒No
If Yes, Provide basis: (attach)
[6] **Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses?** ☐Yes ☒No *See Section 3.5 of the TGD for WQMP and WAP*
If Yes, Provide basis: (attach)
[7] **Any answer from Item 1 through Item 3 is "Yes":** ☐Yes ☒No *If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 9 below.*
[8] **Any answer from Item 4 through Item 6 is "Yes":** ☐Yes ☒No *If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP.* *If no, then proceed to Item 9, below.*
[9] **All answers to Item 1 through Item 6 are "No":** ☒Yes ☐No *Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.* *Proceed to Form 4.3-2, Hydrologic Source Control BMP.*

4.3.1 Site Design Hydrologic Source Control BMP

Section XI.E. of the Permit emphasizes the use of LID preventative measures; and the use of LID HSC BMPs reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable HSC shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of HSC, if a project cannot feasibly meet BMP sizing requirements or cannot fully address HCOCs, feasibility of all applicable HSC must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design HSC BMP. Refer to Section 5.4.1 in the TGD for more detailed guidance.

Form 4.3-2 Site Design Hydrologic Source Control BMPs

[1] Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP): ☐Yes ☒No *If yes, complete Items 2-5; If no, proceed to Item 6*			
Variables *Aggregate impervious area dispersion with equal ratios of pervious to impervious;*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[2] Total impervious area draining to pervious area			
[3] Ratio of pervious area receiving runoff to impervious area			
[4] Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*			
[5] Sum of retention volume achieved from impervious area dispersion (ft^3): 0 *$V_{retention}$ = Sum of Item 4 for all BMPs*			
[6] Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): ☐Yes ☒No *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[7] Ponding surface area (ft^2)			
[8] Ponding depth (ft)			
[9] Surface area of amended soil/gravel (ft^2)			
[10] Average depth of amended soil/gravel (ft)			
[11] Average porosity of amended soil/gravel			
[12] Retention volume achieved from on-lot infiltration (ft^3) *$V_{retention}$ = (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*			
[13] Runoff volume retention from on-lot infiltration (ft^3): 0 *$V_{retention}$ = Sum of Item 12 for all BMPs*			
[14] Implementation of evapotranspiration BMP (green, brown, or blue roofs): ☐Yes ☒No *If yes, complete Items 15-20. If no, proceed to Item 21*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[15] Rooftop area planned for ET BMP (ft^2)			
[16] Average wet season ET demand (in/day) *Use local values, typical ~ 0.1*			
[17] Daily ET demand (ft^3/day) *Item 15 * (Item 16 / 12)*			
[18] Drawdown time (hrs) *Copy Item 6 in Form 4.2-1*			
[19] Retention Volume (ft^3) *$V_{retention}$ = Item 17 * (Item 18 / 24)*			
[20] Runoff volume retention from evapotranspiration BMPs (ft^3): 0 *V = Sum of Item 19 for all BMPs*			
[21] Implementation of Street Trees: ☐Yes ☒No *If yes, complete Items 20-2. If no, proceed to Item 26*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[22] Number of Street Trees			
[23] Average canopy cover over impervious area (ft^2)			
[24] Runoff volume retention from street trees (ft^3) *$V_{retention}$ = Item 22 * Item 23 * (0.05/12) assume runoff retention of 0.05 inches*			
[25] Runoff volume retention from street tree BMPs (ft^3): 0 *$V_{retention}$ = Sum of Item 24 for all BMPs*			
[26] Implementation of residential rain barrels/cisterns: ☐Yes ☒No *If yes, complete Items 27-28; If no, proceed to Item 30*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[27] Number of rain barrels/cisterns			
[28] Runoff volume retention from rain barrels/cisterns (ft^3) *$V_{retention}$ = Item 27 * 3*			
[29] Runoff volume retention from residential rain barrels/Cisterns (ft^3): 0 *$V_{retention}$ =Sum of Item 28 for all BMPs*			
[30] Total Retention Volume from Site Design Hydrologic Source Control BMPs: 0 *Sum of Items 5, 13, 20, 25 and 29*			

4.3.2 Infiltration BMPs

Use Form 4.3-3 to compute on-site retention of runoff from proposed retention and infiltration BMPs. Volume retention estimates are sensitive to the percolation rate used, which determines the amount of runoff that can be infiltrated within the specified drawdown time. The infiltration safety factor reduces field measured percolation to account for potential inaccuracy associated with field measurements, declining BMP performance over time, and compaction during construction. Appendix D of the TGD for WQMP provides guidance on estimating an appropriate safety factor to use in Form 4.3-3.

If site constraints limit the use of BMPs to a single type and implementation of retention and infiltration BMPs mitigate no more than 40% of the DCV, then they are considered infeasible and the Project Proponent may evaluate the effectiveness of BMPs lower in the LID hierarchy of use (Section 5.5.1 of the TGD for WQMP)

If implementation of infiltrations BMPs is feasible as determined using Form 4.3-1, then LID infiltration BMPs shall be implemented to the MEP (section 4.1 of the TGD for WQMP).

Form 4.3-3 Infiltration LID BMP (including underground BMPs)

[1] Remaining LID DCV not met by site design HSC BMP (ft^3): 74,947
V = Form 4.2-1 Item 7 - Form 4.3-2 Item 30

BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP)*	**DA 1 DMA A Underground Chambers**	**n/a**	**n/a**	**n/a**	**n/a**
[2] Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*	1.90	n/a	n/a	n/a	n/a
[3] Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*	2.50	n/a	n/a	n/a	n/a
[4] Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*	0.76	n/a	n/a	n/a	n/a
[5] Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*	48	n/a	n/a	n/a	n/a
[6] Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*	3.04’ (36.48”)	n/a	n/a	n/a	n/a
[7] Ponding Depth (ft) *d_{BMP} = Minimum of (1/12 * Item 4 * Item 5) or Item 6*	3.00’ (36”)	n/a	n/a	n/a	n/a
[8] Infiltrating surface area, SA (ft^2) *The lesser of the area needed for BMP infiltration of full DCV or minimum space requirements from Table 5-7 of the TGD for WQMP*	33,871	n/a	n/a	n/a	n/a
[9] Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*	n/a	n/a	n/a	n/a	n/a
[10] Amended soil porosity	n/a	n/a	n/a	n/a	n/a
[11] Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*	1.25	n/a	n/a	n/a	n/a
[12] Gravel porosity	0.40	n/a	n/a	n/a	n/a
[13] Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	3	n/a	n/a	n/a	n/a
[14] Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 retention * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	n/a	n/a	n/a	n/a	n/a
[15] Underground Retention Volume (ft^3) *Volume determined using manufacturer’s specifications and calculations*	75,011	n/a	n/a	n/a	n/a

[16] Total Retention Volume from LID Infiltration BMPs (ft^3): 75,011
(Sum of Items 14 and 15 for all infiltration BMP included in plan)

[17] Fraction of DCV achieved with infiltration BMP: 100.09%
Retention% = Item 16 / Form 4.2-1 Item 7

[18] Is full LID DCV retained on-site with combination of hydrologic source control and LID retention and infiltration BMPs? ☒Yes ☐No
If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.

4.3.3 Harvest and Use BMP

Harvest and use BMP may be considered if the full LID DCV cannot be met by maximizing infiltration BMPs. Use Form 4.3-4 to compute on-site retention of runoff from proposed harvest and use BMPs.

Volume retention estimates for harvest and use BMPs are sensitive to the on-site demand for captured stormwater. Since irrigation water demand is low in the wet season, when most rainfall events occur in San Bernardino County, the volume of water that can be used within a specified drawdown period is relatively low. The bottom portion of Form 4.3-4 facilitates the necessary computations to show infeasibility if a minimum incremental benefit of 40 percent of the LID DCV would not be achievable with MEP implementation of on-site harvest and use of stormwater (Section 5.5.4 of the TGD for WQMP).

Form 4.3-4 Harvest and Use BMPs

[1] **Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3):** V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16			
BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP)*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[2] **Describe cistern or runoff detention facility**			
[3] **Storage volume for proposed detention type (ft^3)** *Volume of cistern*			
[4] **Landscaped area planned for use of harvested stormwater (ft^2)**			
[5] **Average wet season daily irrigation demand (in/day)** *Use local values, typical ~ 0.1 in/day*			
[6] **Daily water demand (ft^3/day)** *Item 4 * (Item 5 / 12)*			
[7] **Drawdown time (hrs)** *Copy Item 6 from Form 4.2-1*			
[8] **Retention Volume (ft^3)** *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			
[9] **Total Retention Volume (ft^3) from Harvest and Use BMP:** *Sum of Item 8 for all harvest and use BMP included in plan*			
[10] **Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest and use BMPs?** ☐Yes ☐No *If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.*			

4.3.4 Biotreatment BMP

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration, and harvest and use BMPs. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-5 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV. Biotreatment computations are included as follows:

- Use Form 4.3-6 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-7 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-8 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-5 Selection and Evaluation of Biotreatment BMP

<table>
<tr><td colspan="2">[1] Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft³):
Form 4.2-1 Item 7 – Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9</td><td colspan="2">List pollutants of concern
Copy from Form 2.3-1</td></tr>
<tr><td rowspan="2">[2] Biotreatment BMP Selected
(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)</td><td>Volume-based biotreatment
Use Forms 4.3-6 and 4.3-7 to compute treated volume</td><td colspan="2">Flow-based biotreatment
Use Form 4.3-8 to compute treated volume</td></tr>
<tr><td>☐ Bioretention with underdrain
☐ Planter box with underdrain
☐ Constructed wetlands
☐ Wet extended detention
☐ Dry extended detention</td><td colspan="2">☐ Vegetated swale
☐ Vegetated filter strip
☐ Proprietary biotreatment</td></tr>
<tr><td>[3] Volume biotreated in volume based biotreatment BMP (ft³):
Form 4.3-6 Item 15 + Form 4.3-7 Item 13</td><td>[4] Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft³):
Item 1 – Item 3</td><td colspan="2">[5] Remaining fraction of LID DCV for sizing flow based biotreatment BMP: %
Item 4 / Item 1</td></tr>
<tr><td colspan="4">[6] Flow-based biotreatment BMP capacity provided (cfs):
Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)</td></tr>
<tr><td colspan="4">[7] Metrics for MEP determination:
☐ Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development:
If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.</td></tr>
</table>

Form 4.3-6 Volume Based Biotreatment – Bioretention and Planter Boxes with Underdrains

BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP)*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[1] **Pollutants addressed with BMP** *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*			
[2] **Amended soil infiltration rate** *Typical ~ 5.0 in/hr*			
[3] **Amended soil infiltration safety factor** *Typical ~ 2.0*			
[4] **Amended soil design percolation rate (in/hr)** P_{design} *= Item 2 / Item 3*			
[5] **Ponded water drawdown time (hr)** *Copy Item 6 from Form 4.2-1*			
[6] **Maximum ponding depth (ft)** *See Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[7] **Ponding Depth (ft)** d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*			
[8] **Amended soil surface area (ft^2)**			
[9] **Amended soil depth (ft)** *See Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[10] **Amended soil porosity, *n***			
[11] **Gravel depth (ft)** *See Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[12] **Gravel porosity, *n***			
[13] **Duration of storm as basin is filling (hrs)** *Typical ~ 3hrs*			
[14] **Biotreated Volume (ft^3)** $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
[15] **Total biotreated volume from bioretention and/or planter box with underdrains BMP:** *Sum of Item 14 for all volume-based BMPs included in this form*			

Form 4.3-7 Volume Based Biotreatment – Constructed Wetlands and Extended Detention

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (e.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	**BMP Type and DA**		**BMP Type and DA**		**BMP Type and DA**	
	Forebay	**Basin**	**Forebay**	**Basin**	**Forebay**	**Basin**
[1] **Pollutants addressed with BMP forebay and basin** *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*						
[2] **Bottom width (ft)**						
[3] **Bottom length (ft)**						
[4] **Bottom area (ft^2)** *A_{bottom} = Item 2 * Item 3*						
[5] **Side slope (ft/ft)**						
[6] **Depth of storage (ft)**						
[7] **Water surface area (ft2)** *$A_{surface}$ = (Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*						
[8] **Storage volume (ft3)** *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details V =Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)$^{0.5}$]*						
[9] **Drawdown Time (hrs)** *Copy Item 6 from Form 2.1*						
[10] **Outflow rate (cfs)** *Q_{BMP} = (Item $8_{forebay}$ + Item 8_{basin}) / (Item 9 * 3600)*						
[11] **Duration of design storm event (hrs)**						
[12] **Biotreated Volume (ft^3)** *$V_{biotreated}$ = (Item $8_{forebay}$ + Item 8_{basin}) +(Item 10 * Item 11 * 3600)*						
[13] **Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention:** *(Sum of Item 12 for all BMP included in plan)*						

Form 4.3-8 Flow Based Biotreatment

Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[1] **Pollutants addressed with BMP** *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*			
[2] **Flow depth for water quality treatment (ft)** *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[3] **Bed slope (ft/ft)** *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[4] **Manning's roughness coefficient**			
[5] **Bottom width (ft)** *b_w = (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item $2^{1.67}$ * Item $3^{0.5}$)*			
[6] **Side Slope (ft/ft)** *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[7] **Cross sectional area (ft^2)** *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*			
[8] **Water quality flow velocity (ft/sec)** *V = Form 4.3-5 Item 6 / Item 7*			
[9] **Hydraulic residence time (min)** *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[10] **Length of flow based BMP (ft)** *L = Item 8 * Item 9 * 60*			
[11] **Water surface area at water quality flow depth (ft2)** *SA_{top} = (Item 5 + (2 * Item 2 * Item 6)) * Item 10*			

4.3.5 Conformance Summary

Complete Form 4.3-9 to demonstrate how on-site LID DCV is met with proposed site design hydrologic source control, infiltration, harvest and use, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-9 Conformance Summary and Alternative Compliance Volume Estimate

[1] Total LID DCV for the Project (ft^3): 74,947
Copy Item 7 in Form 4.2-1

[2] On-site retention with site design hydrologic source control LID BMP (ft^3): 0
Copy Item 30 in Form 4.3-2

[3] On-site retention with LID infiltration BMP (ft^3): 75,011
Copy Item 16 in Form 4.3-3

[4] On-site retention with LID harvest and use BMP (ft^3): 0
Copy Item 9 in Form 4.3-4

[5] On-site biotreatment with volume based biotreatment BMP (ft^3): 0
Copy Item 3 in Form 4.3-5

[6] Flow capacity provided by flow based biotreatment BMP (cfs): 0
Copy Item 6 in Form 4.3-5

[7] LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- **Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP:** ☒Yes ☐No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- **Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV:** ☐Yes ☒No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- **On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV:** ☐Yes ☒No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

[8] If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

☐ **Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture.**
*Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*

☐ **An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility.**
Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

4.3.6 Hydromodification Control BMP

Use Form 4.3-10 to compute the remaining runoff volume retention, after LID BMP are implemented, needed to address HCOC, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential HCOC. Describe hydromodification control BMP that address HCOC, which may include off-site BMP and/or in-stream controls. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-10 Hydromodification Control BMPs

[1] **Volume reduction needed for HCOC performance criteria (ft^3):** n/a *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	[2] **On-site retention with site design hydrologic source control, infiltration, and harvest and use LID BMP (ft^3):** n/a *Sum of Form 4.3-9 Items 2, 3, and 4. Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving HCOC volume reduction*
[3] **Remaining volume for HCOC volume capture (ft^3):** n/a *Item 1 – Item 2*	[4] **Volume capture provided by incorporating additional on-site or off-site retention BMPs (ft^3):** n/a *Existing downstream BMP may be used to demonstrate additional volume capture (if so, attach to this WQMP a hydrologic analysis showing how the additional volume would be retained during a 2-yr storm event for the regional watershed)*
[5] **If Item 4 is less than Item 3, incorporate in-stream controls on downstream waterbody segment to prevent impacts due to hydromodification** *Attach in-stream control BMP selection and evaluation to this WQMP*	
[6] **Is Form 4.2-2 Item 11 less than or equal to 5%:** ☐Yes ☐No *If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:* ☐ **Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site or off-site retention BMP.** *BMP upstream of a waterbody segment with a potential HCOC may be used to demonstrate increased time of concentration through hydrograph attenuation (if so, show that the hydraulic residence time provided in BMP for a 2-year storm event is equal or greater than the addition time of concentration requirement in Form 4.2-4 Item 15)* ☐ **Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities.** ☐ **Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California.**	
[7] **Form 4.2-2 Item 12 less than or equal to 5%:** ☐Yes ☐No *If yes, HCOC performance criteria are achieved. If no, select one or more mitigation options below:* ☐ **Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site or off-site retention BMPs.** *BMPs upstream of a waterbody segment with a potential HCOC may be used to demonstrate additional peak runoff reduction through hydrograph attenuation (if so, attach to this WQMP, a hydrograph analysis showing how the peak runoff would be reduced during a 2-yr storm event)* ☐ **Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California.**	

4.4 Alternative Compliance Plan (if applicable)

Describe an alternative compliance plan (if applicable) for projects not fully able to infiltrate, harvest and use, or biotreat the DCV via on-site LID practices. A project proponent must develop an alternative compliance plan to address the remainder of the LID DCV. Depending on project type some projects may qualify for water quality credits that can be applied to reduce the DCV that must be treated prior to development of an alternative compliance plan (see Form 2.4-1, Water Quality Credits). Form 4.3-9 Item 8 includes instructions on how to apply water quality credits when computing the DCV that must be met through alternative compliance. Alternative compliance plans may include one or more of the following elements:

- On-site structural treatment control BMP - All treatment control BMP should be located as close to possible to the pollutant sources and should not be located within receiving waters;
- Off-site structural treatment control BMP - Pollutant removal should occur prior to discharge of runoff to receiving waters;
- Urban runoff fund or In-lieu program, if available

Depending upon the proposed alternative compliance plan, approval by the executive officer may or may not be required (see Section 6 of the TGD for WQMP).

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMP included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and may require a Maintenance Agreement (consult the jurisdiction's LIP). If a Maintenance Agreement is required, it must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
Underground Infiltration Chambers	Owner	The isolator rows shall be inspected for debris and sediment accumulations and maintained by a qualified technician and he/she will properly dispose of all wastes and inspect for standing water. A manhole is installed in order to inspect and maintain the inlet row. All entry into the chamber system must be done per OSHA codes to ensure operator and inspector safety.	The isolator rows shall be inspected semi-annually (by October 1st and February 1st) and cleaned by water-flush and vacuum when solids accumulate to 3" depth. Maintenance to be conducted through service contract with the vendor or equally qualified contractor.
N1: Education of Property Owners, Tenants and Occupants on Stormwater BMPs	Owner	Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.	Annually for all employees and within 2 months for new hires.
N2: Activity Restrictions	Owner	No outdoor work areas, processing, storage or wash area.	Ongoing
N3: Landscape Management BMPs	Owner	Irrigation must be consistent with the local agency's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with local agency's Management Guidelines for Use of Fertilizers and Pesticides.	Ongoing
N4: BMP Maintenance	Owner	BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.	As described in each BMP.
N7: Spill Contingency Plan	Owner	Owner/tenant will have a spill contingency plan based on individual site needs.	Ongoing
N10: Uniform Fire Code Implementation	Owner	Owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency.	Ongoing
N11: Litter/Debris Control Program	Owner	Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance.	Weekly

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
N12: Employee Training	Owner	The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Employees shall be trained to clean up spills and participate in ongoing maintenance. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. The WQMP requires annual employee training and new hires within 2 months.	Annually for all employees and within 2 months for new hires.
N13: Housekeeping of Loading Docks	Owner	Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.	Ongoing
N14: Catch Basin Inspection Program	Owner	Monthly inspection by property owner's designee. Sumps will be vacuumed when sediment or trash becomes 2-inches deep and disposed of properly.	Monthly inspection and maintain as necessary.
N15: Vacuum Sweeping of Private Streets and Parking Lots	Owner	All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.	Monthly
N17: Comply with all other applicable NPDES permits	Owner	Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).	Ongoing during construction.
S1: Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	Owner	"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.	Annually
S3: Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	Owner	Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash.	Ongoing
S4: Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	Owner	Irrigation systems shall include shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.	Adjust watering cycles and duration seasonally / quarterly.

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
S5: Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	Owner	Landscaped areas will be depressed in order to increase retention of stormwater/irrigation water and promote infiltration.	Ongoing

Section 6 WQMP Attachments

6.1 Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

See Attachment C for WQMP Site Map.

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (consult the LIP), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

Attach all O&M Plans and Maintenance Agreements for BMP to the WQMP (Attachment D).

6.4 Other Supporting Documentation

- Existing Site Photos (Attachment A)
- BMP Design Calculations & Supporting Documentation (Attachment B)
- Maintenance Agreement (Attachment D)
- BMP Educational Materials (Attachment E)
- Infiltration Report (Attachment F)
- BMP O&M (Attachment G)

Attachment A
Existing Condition Site Photos




K LINE





Attachment B
BMP Design Calculations & Supporting Documentation

www.nws.noaa.gov

NOAA's National Weather Service
Hydrometeorological Design Studies Center
Precipitation Frequency Data Server (PFDS)

NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: CA

Data description

Data type: Precipitation depth **Units:** English **Time series type:** Partial duration

Select location

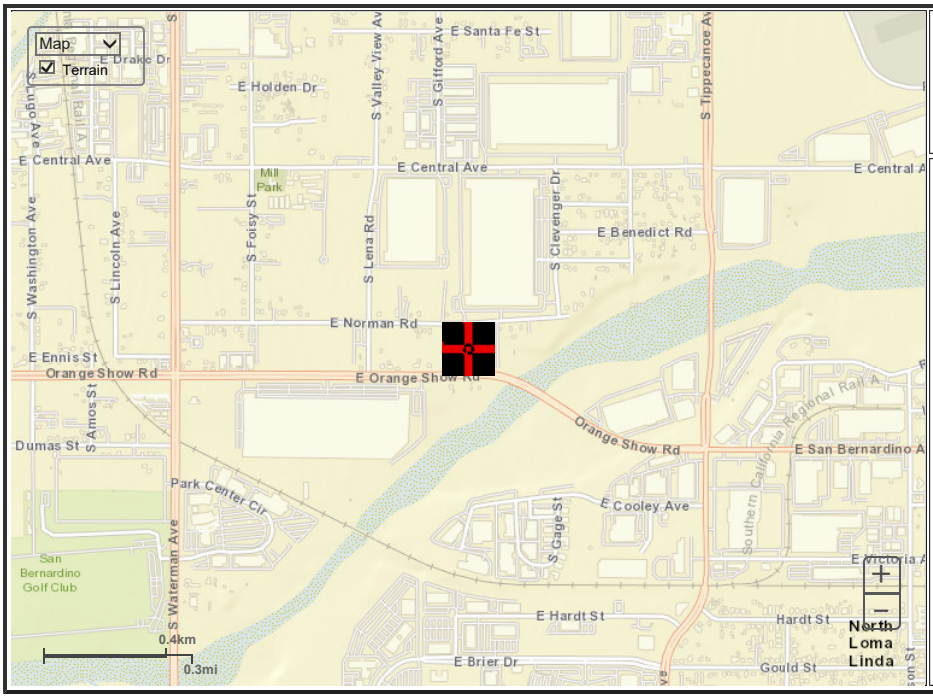
1) Manually:

a) By location (decimal degrees, use "-" for S and W): Latitude: 34.080522 Longitude: -117.26823 Submit

b) By station (list of CA stations): Select station

c) By address Search

2) Use map (if ESRI interactive map is not loading, try adding the host: **https://js.arcgis.com/** to the firewall, or contact us at hdsc.questions@noaa.gov):



a) Select location
Move crosshair or double click

b) Click on station icon
Show stations on map

Location information:
Name: San Bernardino, California, USA*
Latitude: 34.0805°
Longitude: -117.2682°
Elevation: 1036.55 ft **

* Source: ESRI Maps
** Source: USGS

POINT PRECIPITATION FREQUENCY (PF) ESTIMATES

WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION
NOAA Atlas 14, Volume 6, Version 2

PF tabular PF graphical Supplementary information Print page

PDS-based precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years) 1	2	5	10	25	50	100	200	500	1000
5-min	**0.101** (0.084-0.122)	**0.133** (0.110-0.161)	**0.175** (0.145-0.213)	**0.209** (0.172-0.257)	**0.257** (0.204-0.326)	**0.293** (0.228-0.381)	**0.330** (0.251-0.440)	**0.369** (0.272-0.506)	**0.422** (0.298-0.604)	**0.463** (0.316-0.687)
10-min	**0.144** (0.120-0.175)	**0.190** (0.158-0.231)	**0.251** (0.208-0.305)	**0.300** (0.247-0.369)	**0.368** (0.292-0.468)	**0.420** (0.327-0.546)	**0.474** (0.359-0.631)	**0.529** (0.390-0.726)	**0.605** (0.427-0.866)	**0.664** (0.453-0.985)
15-min	**0.174** (0.145-0.211)	**0.230** (0.191-0.279)	**0.303** (0.251-0.369)	**0.363** (0.298-0.446)	**0.445** (0.353-0.565)	**0.508** (0.395-0.660)	**0.573** (0.434-0.763)	**0.640** (0.471-0.878)	**0.732** (0.517-1.05)	**0.803** (0.547-1.19)
30-min	**0.259** (0.215-0.314)	**0.341** (0.284-0.415)	**0.450** (0.373-0.548)	**0.539** (0.443-0.662)	**0.660** (0.525-0.840)	**0.754** (0.586-0.980)	**0.851** (0.645-1.13)	**0.950** (0.700-1.30)	**1.09** (0.767-1.56)	**1.19** (0.813-1.77)
60-min	**0.378** (0.315-0.459)	**0.499** (0.415-0.606)	**0.658** (0.545-0.801)	**0.788** (0.647-0.968)	**0.965** (0.767-1.23)	**1.10** (0.857-1.43)	**1.24** (0.943-1.66)	**1.39** (1.02-1.91)	**1.59** (1.12-2.27)	**1.74** (1.19-2.59)
2-hr	**0.543** (0.452-0.659)	**0.702** (0.583-0.852)	**0.910** (0.754-1.11)	**1.08** (0.888-1.33)	**1.31** (1.04-1.67)	**1.49** (1.16-1.94)	**1.67** (1.27-2.23)	**1.86** (1.37-2.55)	**2.11** (1.49-3.02)	**2.31** (1.57-3.42)
3-hr	**0.666** (0.554-0.808)	**0.854** (0.710-1.04)	**1.10** (0.913-1.34)	**1.30** (1.07-1.60)	**1.58** (1.25-2.00)	**1.79** (1.39-2.32)	**2.00** (1.52-2.67)	**2.22** (1.64-3.05)	**2.52** (1.78-3.60)	**2.75** (1.87-4.07)
6-hr	**0.922** (0.768-1.12)	**1.18** (0.978-1.43)	**1.51** (1.25-1.84)	**1.78** (1.46-2.19)	**2.15** (1.71-2.73)	**2.43** (1.89-3.16)	**2.72** (2.06-3.62)	**3.01** (2.22-4.13)	**3.41** (2.40-4.88)	**3.71** (2.53-5.51)
12-hr	**1.22**	**1.56**	**2.01**	**2.37**	**2.86**	**3.24**	**3.63**	**4.02**	**4.55**	**4.96**

	(1.01-1.48)	(1.30-1.89)	(1.66-2.44)	(1.95-2.91)	(2.28-3.64)	(2.52-4.21)	(2.75-4.83)	(2.96-5.52)	(3.21-6.52)	(3.38-7.36)
24-hr	**1.62** (1.43-1.86)	**2.10** (1.85-2.42)	**2.72** (2.40-3.15)	**3.24** (2.83-3.77)	**3.93** (3.33-4.74)	**4.46** (3.70-5.49)	**5.01** (4.05-6.30)	**5.56** (4.38-7.20)	**6.31** (4.78-8.51)	**6.90** (5.04-9.62)
2-day	**1.96** (1.74-2.26)	**2.59** (2.29-2.99)	**3.42** (3.01-3.95)	**4.09** (3.58-4.77)	**5.01** (4.25-6.04)	**5.73** (4.75-7.04)	**6.46** (5.23-8.13)	**7.21** (5.68-9.33)	**8.23** (6.23-11.1)	**9.03** (6.61-12.6)
3-day	**2.11** (1.86-2.43)	**2.81** (2.49-3.25)	**3.76** (3.31-4.35)	**4.53** (3.97-5.29)	**5.60** (4.75-6.75)	**6.43** (5.34-7.91)	**7.29** (5.90-9.18)	**8.18** (6.44-10.6)	**9.39** (7.11-12.7)	**10.3** (7.57-14.4)
4-day	**2.24** (1.98-2.58)	**3.02** (2.67-3.49)	**4.07** (3.59-4.71)	**4.94** (4.32-5.76)	**6.14** (5.20-7.40)	**7.08** (5.87-8.70)	**8.04** (6.51-10.1)	**9.05** (7.13-11.7)	**10.4** (7.90-14.1)	**11.5** (8.44-16.1)
7-day	**2.57** (2.28-2.97)	**3.53** (3.12-4.07)	**4.82** (4.25-5.57)	**5.89** (5.15-6.86)	**7.37** (6.25-8.88)	**8.54** (7.09-10.5)	**9.75** (7.90-12.3)	**11.0** (8.69-14.3)	**12.8** (9.67-17.2)	**14.2** (10.4-19.8)
10-day	**2.79** (2.47-3.21)	**3.86** (3.41-4.46)	**5.31** (4.68-6.14)	**6.52** (5.71-7.61)	**8.21** (6.96-9.90)	**9.55** (7.92-11.7)	**10.9** (8.85-13.8)	**12.4** (9.76-16.0)	**14.4** (10.9-19.4)	**16.0** (11.7-22.3)
20-day	**3.42** (3.03-3.94)	**4.80** (4.24-5.54)	**6.67** (5.89-7.72)	**8.25** (7.22-9.62)	**10.5** (8.87-12.6)	**12.2** (10.2-15.1)	**14.1** (11.4-17.7)	**16.0** (12.6-20.8)	**18.8** (14.2-25.3)	**20.9** (15.3-29.2)
30-day	**4.04** (3.57-4.65)	**5.66** (5.01-6.53)	**7.88** (6.95-9.12)	**9.76** (8.54-11.4)	**12.4** (10.5-15.0)	**14.5** (12.1-17.9)	**16.8** (13.6-21.1)	**19.1** (15.1-24.7)	**22.4** (17.0-30.2)	**25.1** (18.3-34.9)
45-day	**4.85** (4.30-5.59)	**6.75** (5.97-7.79)	**9.35** (8.25-10.8)	**11.6** (10.1-13.5)	**14.7** (12.5-17.7)	**17.2** (14.3-21.2)	**19.9** (16.1-25.0)	**22.7** (17.9-29.3)	**26.6** (20.1-35.9)	**29.8** (21.8-41.6)
60-day	**5.70** (5.05-6.57)	**7.83** (6.92-9.03)	**10.8** (9.49-12.4)	**13.3** (11.6-15.5)	**16.8** (14.2-20.2)	**19.7** (16.3-24.2)	**22.7** (18.4-28.6)	**25.9** (20.4-33.5)	**30.4** (23.0-41.0)	**34.0** (24.9-47.4)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Estimates from the table in CSV format: Precipitation frequency estimates Submit

Main Link Categories:
Home | OWP

US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Office of Water Prediction (OWP)
1325 East West Highway
Silver Spring, MD 20910
Page Author: HDSC webmaster
Page last modified: April 21, 2017

Map Disclaimer
Disclaimer
Credits
Glossary

Privacy Poli
About
Career Opportuniti

Worksheet H: Factor of Safety and Design Infiltration Rate and Worksheet

Factor Category		Factor Description	Assigned Weight (w)	Factor Value (v)	Product (p) p = w x v
A	Suitability Assessment	Soil assessment methods	0.25	1	0.25
		Predominant soil texture	0.25	1	0.25
		Site soil variability	0.25	1	0.25
		Depth to groundwater / impervious layer	0.25	1	0.25
		Suitability Assessment Safety Factor, $S_A = \Sigma p$			1.00
B	Design	Tributary area size	0.25	3	0.75
		Level of pretreatment/ expected sediment loads	0.25	3	0.75
		Redundancy	0.25	3	0.75
		Compaction during construction	0.25	1	0.25
		Design Safety Factor, $S_B = \Sigma p$			2.5
Combined Safety Factor, $S_{TOT} = S_A \times S_B$					2.5
Measured Infiltration Rate, inch/hr, K_M (corrected for test-specific bias)					1.90 in/hr
Design Infiltration Rate, in/hr, $K_{DESIGN} = K_M / S_{TOT}$					0.76 in/hr

Supporting Data

Briefly describe infiltration test and provide reference to test forms:

A site-specific infiltration test for the project site **will be** conducted to support a minimum infiltration rate of 1.9 in/hr. The design infiltration rate will be 0.76 in/hr after applying the appropriate safety factors. This design rate is suitable for infiltration facilities.

Note: The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

VOLUME-BASED BMP DESIGN

$C_{BMP} = 0.858(imp)^3 – 0.78(imp)^2 + 0.774(imp) + 0.04$
P6 = (0.499)(1.4807) = 0.739 inches
P0 = (1.963)(C_{BMP})(0.739)
DCV = (P0 * Area) / 12

DA 1 DMA A – UNDERGROUND INFILTRATION CHAMBERS

Region		Valley	
Drainage Area (acres)		17.64	acres
Drainage Area (sq-ft)		768,398	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.499	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.739	
Drawdown Rate (a)		1.963	
DCV		74,947	cu-ft
DCV		1.721	acre-ft

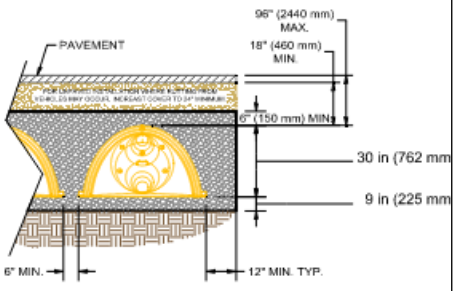
StormTech
Subsurface Stormwater Management

Units: Imperial

Project: TEI 4106
By:
Point of Contact
Date: 9/1/2022

System Requirements

Required Storage Volume	74,947	CF
Select Stormtech Chamber System	DC-780	
Stone Porosity (Industry Standard = 40%)	40%	
Stone Foundation Depth	9	Inches
Storage Volume Per Chamber	78.30	CF
Avg Cover over Chambers (18 in min. & 96 in max.)	18	Inches
Number of Chambers Required	958	Each
Required Bed Size	33,634	SF
Tons of Stone Required	3,775	Tons
Volume of Excavation	4,775	CY
Area of Filter Fabric	9,047	SY
# of End Caps Required	22	Each
Length of ISOLATOR ROW	626.56	FT
ISOLATOR FABRIC	278	SY



Is the limiting dimension for the bed the width or length? width

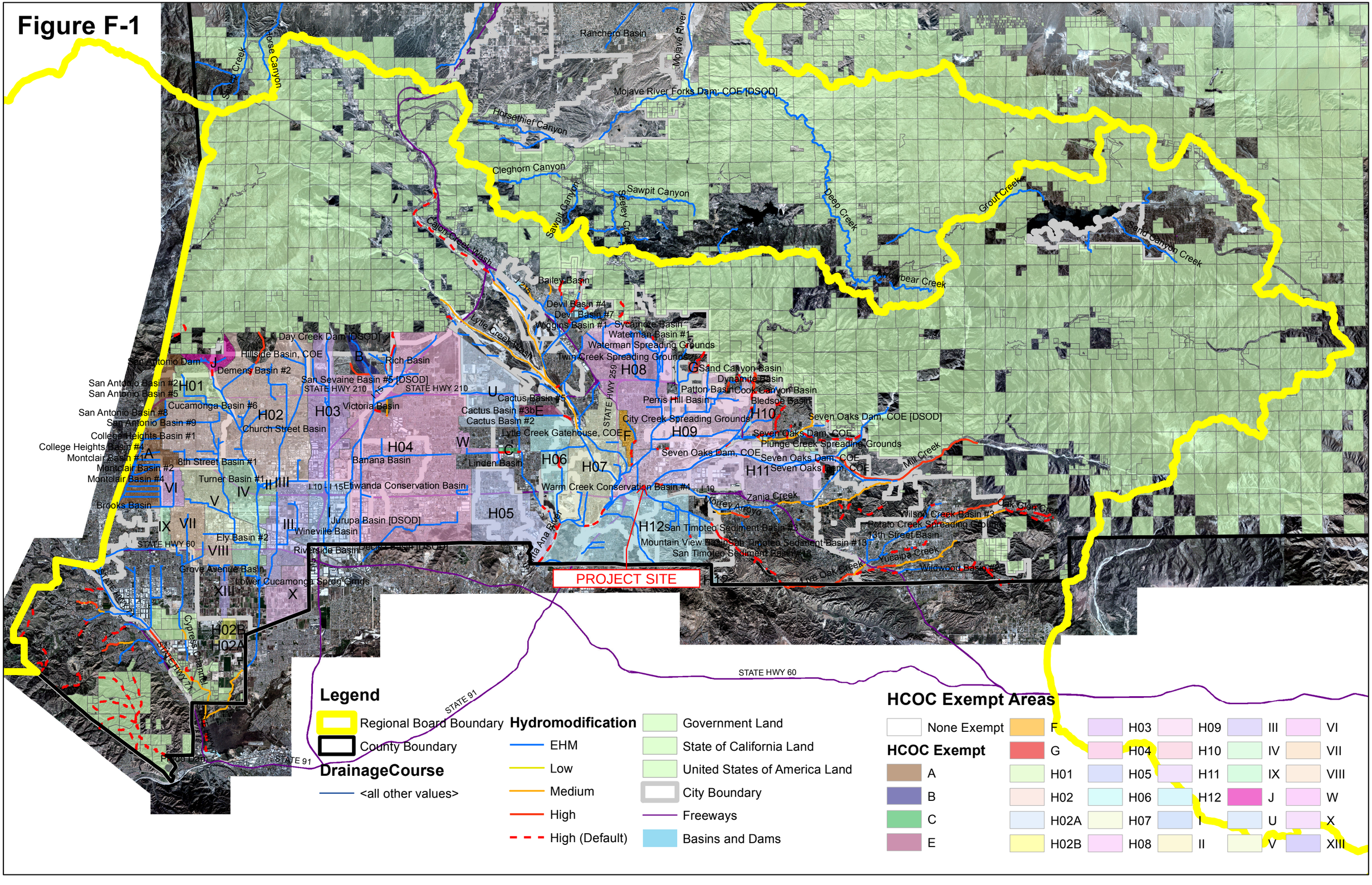
Controlled by Width (Rows)		Controlled by Length	
Width	55 FT	Length	100 FT
# of Chambers Long	88 EA	# of Chambers Long	- EA
# of Rows	11 EA	# of Rows	- EA
Actual Length	630.16 FT	Actual Length	- FT
Actual Width	53.75 FT	Actual Width	- FT

10 of the chambers rows will contain only 87 chambers

Design infiltration rate = 0.76 in/hr
d_{max} = 36.48 inches = Design infiltration rate x 48 hours = 0.76 in/hr x 48 hrs
d_{BMP} = 36 inches = [(6 inches + 9 inches) x 0.40] + 30 inches
$d_{max} > d_{BMP}$

Attachment C
WQMP Site Map

Figure F-1



Legend

- Regional Board Boundary
- County Boundary

DrainageCourse

- <all other values>

Hydromodification

- EHM
- Low
- Medium
- High
- High (Default)

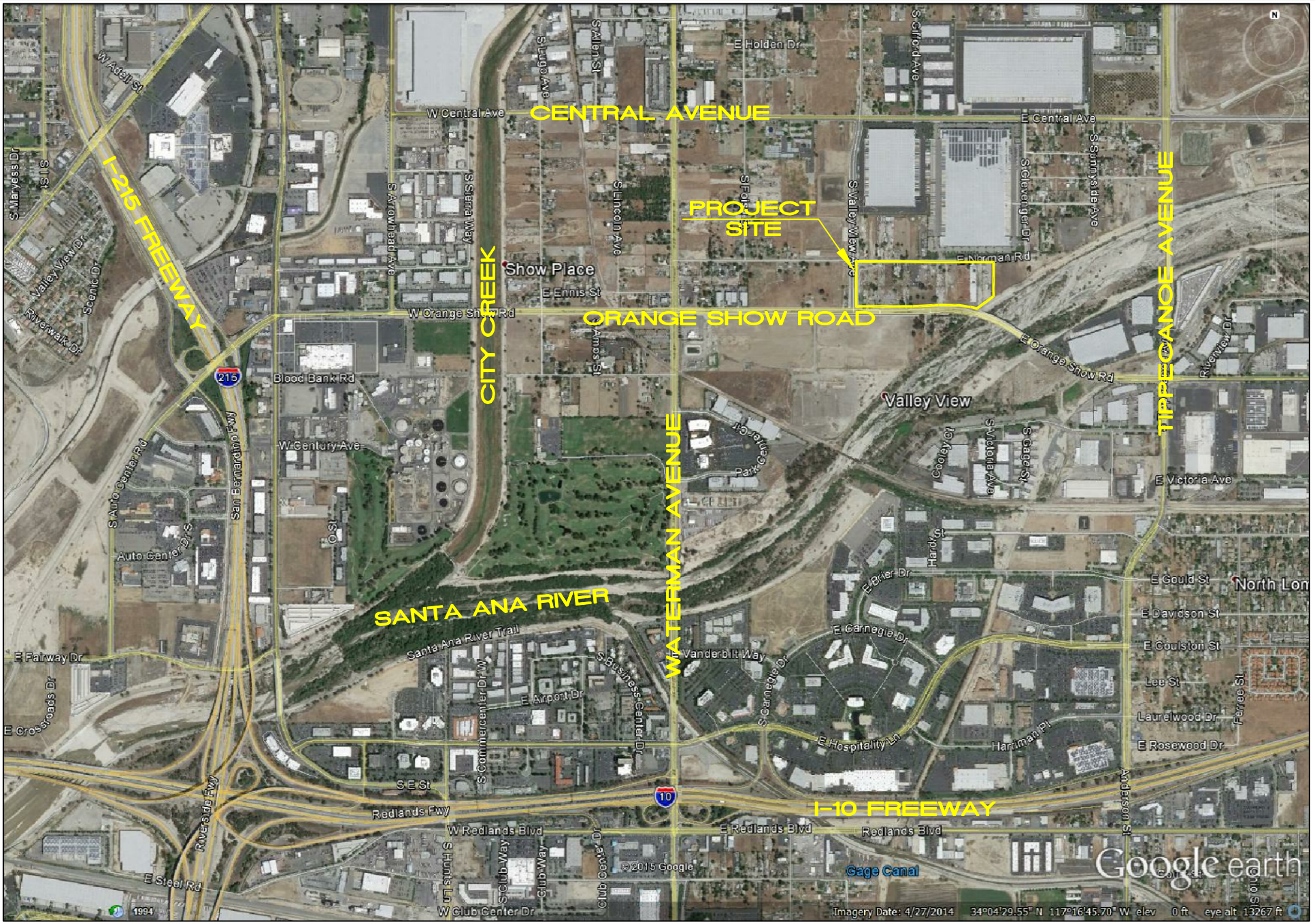
- Government Land
- State of California Land
- United States of America Land
- City Boundary
- Freeways
- Basins and Dams

HCOC Exempt Areas

- None Exempt

HCOC Exempt

A, B, C, E, F, G, H01, H02, H02A, H02B, H03, H04, H05, H06, H07, H08, H09, H10, H11, H12, I, II, III, IV, V, VI, VII, VIII, IX, J, U, W, X, XIII



Last Update: 8/25/22
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Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

VICINITY MAP
FOR
GATEWAY SOUTH BUILDING 9

NTS



Last Update: 9/2/22
O:\4100-4199\4106\4106VicMap.dwg

FLOW

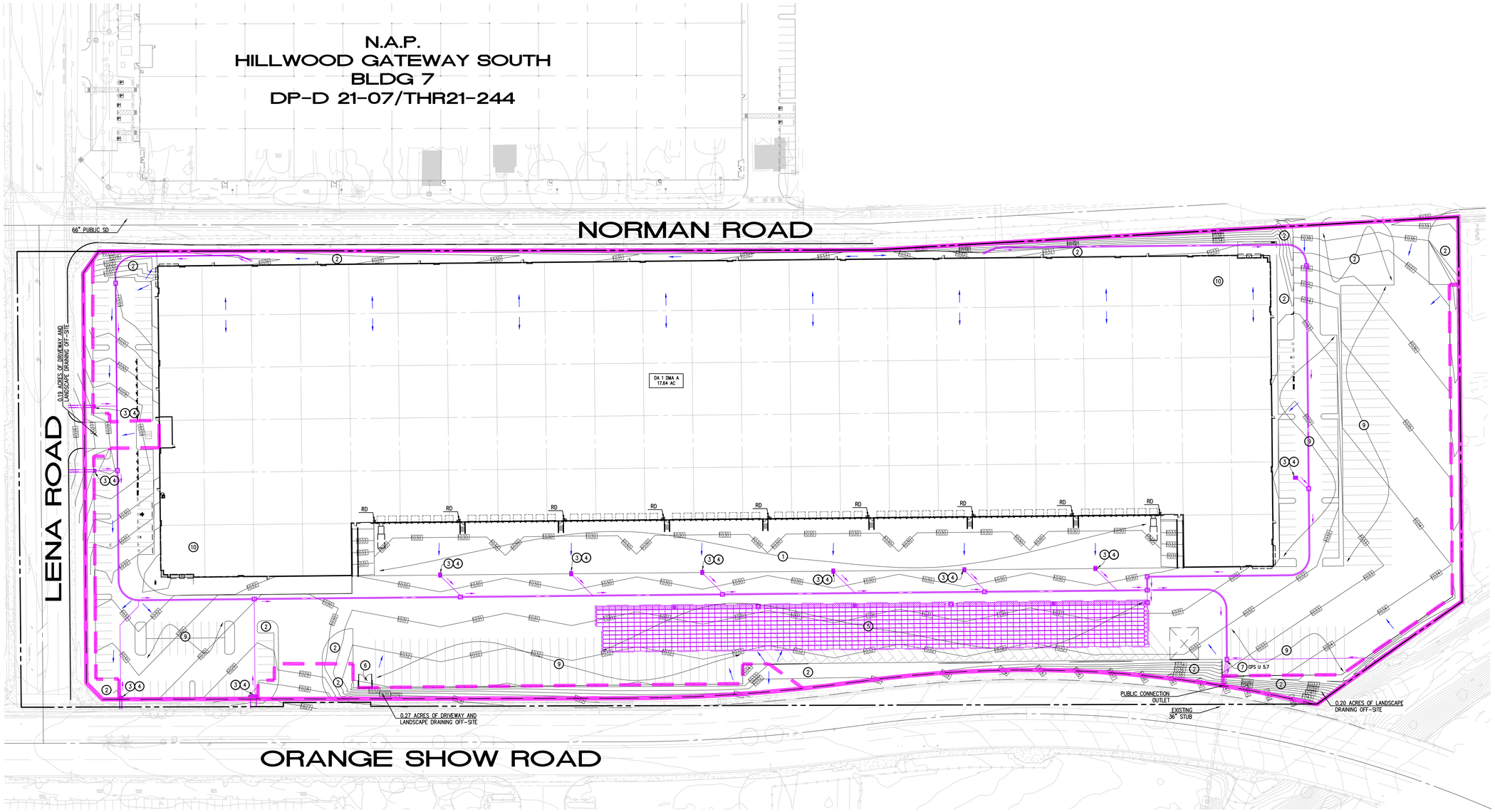
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

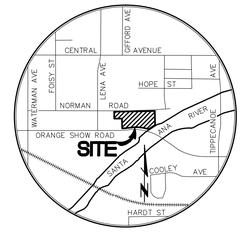
"RECEIVING WATERS MAP" VICINITY MAP

FOR

GATEWAY SOUTH BUILDING 9

N.A.P.
HILLWOOD GATEWAY SOUTH
BLDG 7
DP-D 21-07/THR21-244





VICINITY MAP
N.T.S.

LEGEND

1. N13: HOUSEKEEPING OF LOADING DOCKS
2. N3 & S4: LANDSCAPE MANAGEMENT BMPS (EFFICIENT IRRIGATION)
3. S1: CATCH BASIN STENCIL "NO DUMPING-DRAINS TO RIVER" N14: CATCH BASIN INSPECTION
4. DRAIN INSERTS
5. STORMTECH DC-780 CHAMBERS
6. S3: TRASH STORAGE AREA
7. HYDRA CONNECTOR PIPE SCREEN (CPS)
8. NOT USED
9. N15: VACUUM SWEEPING PARKING AREAS
10. N1: EDUCATION OF STORMWATER BMPS N12: EMPLOYEE TRAINING

NOTES:

RD ROOF DRAIN
BOUNDARY
DRAINAGE AREAS
PRIVATE SD PIPE
SURFACE FLOW DIRECTION
SD FLOW DIRECTION



SAMPLE CATCH BASIN STENCIL

Form 5‐1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
Underground Infiltration Chambers	Owner	The isolator rows shall be inspected for debris and sediment accumulations and maintained by a qualified technician and he/she will properly dispose of all wastes and inspect for standing water. A manhole is installed in order to inspect and maintain the inlet row. All entry into the chamber system must be done per OSHA codes to ensure operator and inspector safety.	The isolator rows shall be inspected semi-annually (by October 1st and February 1st) and cleaned by water-flush and vacuum when solids accumulate to 3" depth. Maintenance to be conducted through service contract with the vendor or equally qualified contractor.
N1: Education of Property Owners, Tenants and Occupants on Stormwater BMPs	Owner	Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.	Annually for all employees and within 2 months for new hires.
N2: Activity Restrictions	Owner	No outdoor work areas, processing, storage or wash area.	Ongoing
N3: Landscape Management BMPs	Owner	Irrigation must be consistent with the local agency's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with local agency's Management Guidelines for Use of Fertilizers and Pesticides.	Ongoing
N4: BMP Maintenance	Owner	BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.	As described in each BMP.
N7: Spill Contingency Plan	Owner	Owner/tenant will have a spill contingency plan based on individual site needs.	Ongoing
N10: Uniform Fire Code Implementation	Owner	Owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency.	Ongoing
N11: Litter/Debris Control Program	Owner	Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance.	Weekly
N12: Employee Training	Owner	The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Employees shall be trained to clean up spills and participate in ongoing maintenance. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. The WQMP requires annual employee training and new hires within 2 months.	Annually for all employees and within 2 months for new hires.

Form 5‐1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
N13: Housekeeping of Loading Docks	Owner	Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.	Ongoing
N14: Catch Basin Inspection Program	Owner	Monthly inspection by property owner's designee. Sumps will be vacuumed when sediment or trash becomes 2-inches deep and disposed of properly.	Monthly inspection and maintain as necessary.
N15: Vacuum Sweeping of Private Streets and Parking Lots	Owner	All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.	Monthly
N17: Comply with all other applicable NPDES permits	Owner	Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).	Ongoing during construction.
S1: Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	Owner	"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.	Annually
S3: Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	Owner	Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash.	Ongoing
S4: Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	Owner	Irrigation systems shall include shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.	Adjust watering cycles and duration seasonally / quarterly.
S5: Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	Owner	Landscaped areas will be depressed in order to increase retention of stormwater/irrigation water and promote infiltration.	Ongoing

0 25 50 100 150
SCALE: 1"=50'

Last Update: 9/8/22
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CITY OF SAN BERNARDINO
PUBLIC WORKS DEPARTMENT

BMP SITE MAP

GATEWAY SOUTH BUILDING 9 SAN BERNARDINO, CA

PREPARED FOR:
GATEWAY SOUTH 9 DEVELOPMENT, LLC
36 DISCOVERY, SUITE 130
IRVINE, CA 92618
(909) 382-0033

PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX:(714)521-4173

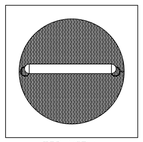
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. _____
Sheet 1 of 2 Sheets

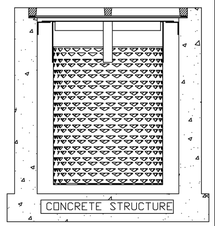
4106/1 OF 2 SHEET

BIO CLEAN FULL CAPTURE FILTER

FOR USE IN GRATE INLETS

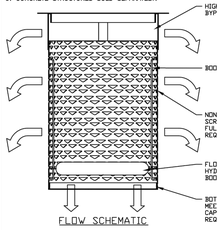


TOP VIEW



NOTES:

1. ALL HARDWARE, FLANGE, FRAME, SCREENS SHALL BE STAINLESS STEEL.
2. HYDROCARBON BOOM SHALL BE 2" DIAMETER AND CONNECTED, MECHANICALLY TO THE FILTER FRAME WITH RAILS ALLOWING IT TO FLOAT ON THE WATER SURFACE REGARDLESS OF HEIGHT.
3. SEE PERFORMANCE REPORTS IN MANUFACTURERS SPECIFICATIONS.
4. OTHER STANDARD AND CUSTOM MODEL SIZES AVAILABLE – CONTACT BIO CLEAN FOR MORE INFORMATION.
5. BASED ON 37% OPEN AREA.
6. CONSIDERS A SAFETY FACTOR OF 2.0.
7. CONSIDERS A LOCAL DEPRESSION PONDING DEPTH OF 6 INCHES.
8. STORAGE CAPACITY BASED ON THE BASKET HALF FULL.
9. CONCRETE STRUCTURES SOLD SEPARATELY.



FLOW SCHEMATIC

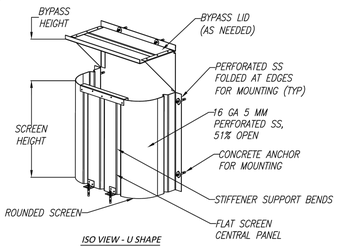
MODEL #	TREATMENT FLOW (CFS)	BYPASS FLOW (CFS)	SOLIDS STORAGE CAPACITY (CF)
BIO-GRATE-FULL 12-12-12	1.55	1.55	0.27
BIO-GRATE-FULL 18-18-18	4.32	3.68	1.05
BIO-GRATE-FULL 24-24-24	7.67	4.83	2.41
BIO-GRATE-FULL 30-30-24	12.97	6.21	3.98
BIO-GRATE-FULL 25-38-24	13.53	6.59	4.16
BIO-GRATE-FULL 36-36-24	19.64	7.60	5.94
BIO-GRATE-FULL 48-48-18	25.59	10.13	7.92

DRAWING BIO CLEAN GRATE INLET FILTER DETAILS		MEETS FULL CAPTURE REQUIREMENTS
TYPICAL MODEL DETAIL		
WARRANTY: 8 YEAR MANUFACTURERS		PROJECT:
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 298 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE: 760-433-7640 FAX: 760-433-3176		REVISIONS: DATE:
DATE: 10/12/17	SCALE: SF = 1'S	REVISIONS: DATE:
DRAWTER: M.C.P.	UNITS = INCHES	REVISIONS: DATE:

Bio Clean
A Forterra Company

PAGE 1

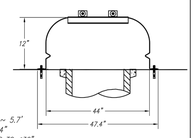
HYDRA CONNECTOR PIPE SCREEN (CPS) U 5.7



ISO VIEW - U SHAPE

CPS U WITH 5.7 FT SCREEN LENGTH	
CPS HEIGHT (IN)	SCREEN FLOW (CFS)
12	8.09
18	14.86
24	22.89
30	31.99
36	42.07

NOTE: BYPASS FLOW RATES VARY WITH VAULT DEPTH AND BYPASS HEIGHT. CONTACT BIO CLEAN FOR ADDITIONAL INFORMATION.



TOTAL SCREEN LENGTH ~ 5.7'
SPAN LENGTH = 44"
COMPATIBLE WITH PIPES UP TO ø36"

TOP SECTION VIEW - U SHAPE

GENERAL NOTES

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO INSTALL THE CPS UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. POSITION THE CPS SO IT IS EVENLY SPACED AROUND THE CONNECTOR PIPE, ENSURING A MIN. OF 4" SPACING AWAY FROM ANY CORNERS. SCREEN BOTTOM SHALL BE FLUSH WITH THE CATCH BASIN FLOOR, OR WITH GAPS NO GREATER THAN 5 MM.
3. IF A BYPASS LID IS REQUIRED, VERIFY THE BYPASS HEIGHT NEEDED AND MARK THAT LOCATION ON THE WALL DIRECTLY ABOVE THE BASE UPRIGHTS. LIFT THE LID IN PLACE AND MARK THE HOLE LOCATIONS FOR THE LID MOUNTING BRACKETS. SECURE THE LID WITH STAINLESS STEEL NUTS.

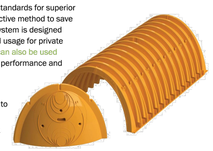
WARRANTY: 3 YEAR MANUFACTURER'S		MEETS FULL CAPTURE REQUIREMENTS
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 298 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE: 760-433-7640		REVISIONS: DATE:
DATE: 1/17/2020	SCALE: NTS	REVISIONS: DATE:
DRAFTER: G.M.S.	UNITS = INCHES	REVISIONS: DATE:

Bio Clean
A Forterra Company

StormTech DC-780 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

- 12' (3.6 m) Deep Cover Applications
- Designed in accordance with ASTM F2787 and produced to meet the ASTM 2418 product standard.
- AASHTO safety factors provided for AASHTO Design Truck (H20 and deep cover conditions.)



StormTech DC-780 Chamber (not to scale)

Nominal Chamber Specifications

Size (L x W x H)	85.4" x 51.0" x 30.0" (2169 x 1295 x 762 mm)
Chamber Storage	46.2 ft³ (1.30 m³)
Min. Installed Storage*	78.4 ft³ (2.2 m³)

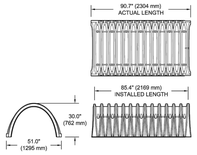
*Assumes 9" (230 mm) stone below, 6" (150 mm) stone above, 6" (150 mm) row spacing and 40% stone porosity.

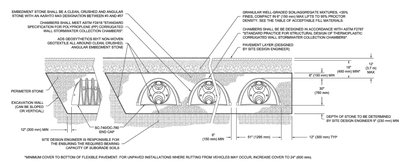
Shipping

24 chambers/pallet

60 end caps/pallet

12 pallets/truck





*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

StormTech

DC-780 Cumulative Storage Volumes Per Chamber

Assumes 40% Stone Porosity. Calculations are Based Upon a 9" (230 mm) Stone Base Under Chambers.

Depth of Water in System Inches (mm)		Cumulative Chamber Storage ft³ (m³)	Total System Cumulative Storage ft³ (m³)
45 (1,143)		46.27 (1.310)	78.47 (2.222)
44 (1,118)		46.27 (1.310)	77.34 (2.190)
43 (1,092)	Stone	46.27 (1.310)	76.21 (2.158)
42 (1,067)	Cover	46.27 (1.310)	75.09 (2.126)
41 (1,041)		46.27 (1.310)	73.96 (2.094)
40 (1,016)		46.27 (1.310)	72.83 (2.062)
39 (991)		46.27 (1.310)	71.71 (2.030)
38 (965)		46.21 (1.309)	70.54 (1.998)
37 (940)		46.04 (1.304)	69.32 (1.963)
36 (914)		45.76 (1.296)	68.02 (1.926)
35 (889)		45.15 (1.278)	66.53 (1.884)
34 (864)		44.34 (1.255)	64.91 (1.838)
33 (838)		43.38 (1.228)	63.21 (1.790)
32 (813)		42.29 (1.198)	61.43 (1.740)
31 (787)		41.11 (1.164)	59.59 (1.688)
30 (762)		39.83 (1.128)	57.70 (1.634)
29 (737)		38.47 (1.089)	55.76 (1.579)
28 (711)		37.01 (1.048)	53.76 (1.522)
27 (686)		35.49 (1.005)	51.72 (1.464)
26 (660)		33.90 (0.960)	49.63 (1.405)
25 (635)		32.24 (0.913)	47.52 (1.346)
24 (610)		30.54 (0.865)	45.36 (1.285)
23 (584)		28.77 (0.815)	43.18 (1.223)
22 (559)		26.96 (0.763)	40.97 (1.160)
21 (533)		25.10 (0.711)	38.72 (1.096)
20 (508)		23.19 (0.657)	36.45 (1.032)
19 (483)		21.25 (0.602)	34.16 (0.967)
18 (457)		19.26 (0.545)	31.84 (0.902)
17 (432)		17.24 (0.488)	29.50 (0.835)
16 (406)		15.19 (0.430)	27.14 (0.769)
15 (381)		13.10 (0.371)	24.76 (0.701)
14 (356)		10.98 (0.311)	22.36 (0.633)
13 (330)		8.83 (0.250)	19.95 (0.565)
12 (305)		6.66 (0.189)	17.52 (0.496)
11 (279)		4.46 (0.126)	15.07 (0.427)
10 (254)		2.24 (0.064)	12.61 (0.357)
9 (229)		0 (0)	10.14 (0.287)
8 (203)		0 (0)	9.01 (0.255)
7 (178)		0 (0)	7.89 (0.223)
6 (152)		0 (0)	6.76 (0.191)
5 (127)	Stone Foundation	0 (0)	5.63 (0.160)
4 (102)		0 (0)	4.51 (0.128)
3 (76)		0 (0)	3.38 (0.096)
2 (51)		0 (0)	2.25 (0.064)
1 (25)		0 (0)	1.13 (0.032)

Note: Add 1.13 ft³ (0.032 m³) of Storage for Each Additional Inch (25 mm) of Stone Foundation.

Storage Volume Per Chamber ft³ (m³)

	Bare Chamber Storage ft³ (m³)	Chamber and Stone Foundation Depth in. (mm)		
		9" (230 mm)	12" (300 mm)	18" (450 mm)
DC-780 Chamber	78.4 (2.2)	78.4 (2.2)	81.8 (2.3)	88.6 (2.5)

Note: Assumes 40% porosity for the stone, the bare chamber volume, 6" (150 mm) of stone above, and 6" (150 mm) row spacing.

Amount of Stone Per Chamber

ENGLISH TONS (yds³)	Stone Foundation Depth		
	9"	12"	18"
DC-780 Chamber	4.2 (3.0)	4.7 (3.3)	5.6 (3.9)
METRIC KILOGRAMS (m³)	229 mm	300 mm	450 mm
DC-780 Chamber	3,810 (2.3)	4,264 (2.5)	5,080 (3.0)

Note: Assumes 9" (150 mm) of stone above, and between chambers.

Volume Excavation Per Chamber yd³ (m³)

	Stone Foundation Depth		
	9" (230 mm)	12" (300 mm)	18" (450 mm)
DC-780 Chamber	5.9 (4.5)	6.3 (4.8)	6.9 (5.3)

Note: Assumes 6" (150 mm) separation between chamber rows and 18" (450 mm) of cover. The volume of excavation will vary as depth of cover increases.



Last Update: 8/8/22
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CITY OF SAN BERNARDINO

PUBLIC WORKS DEPARTMENT

BMP SITE MAP

GATEWAY SOUTH BUILDING 9 SAN BERNARDINO, CA

4106/1 OF 1 SHEET

PREPARED FOR:

GATEWAY SOUTH 9 DEVELOPMENT, LLC
36 DISCOVERY, SUITE 130
IRVINE, CA 92618
(909) 382-0033

PREPARED BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director _____ R.C.E. _____

Sheet 1 of 1 Sheets

Attachment D
WQMP and Stormwater BMP Transfer, Access and Maintenance Agreement

RECORDING REQUESTED BY:

WHEN RECORDED RETURN TO:

City of San Bernardino
Public Works Department, 2nd FLOOR
201 North "E" Street
San Bernardino, CA 92401

SPACE ABOVE THIS LINE FOR RECORDER'S USE ONLY

AGREEMENT

STORMWATER TREATMENT DEVICE AND CONTROL MEASURE ACCESS AND MAINTENANCE AGREEMENT

Owner: **Gateway South 9 Development, LLC**

Tract No.: **APN:** **0280-202-007, -008, -009 and -011 & 0280-192-01, -02, -04 thru -13, -16, -18, -19 thru 22, & 0280-172-01, -02, -04, -11, -17, -19 thru -22**

Address: **Between Norman Road & Orange Show Road, East of Lena Road, San Bernardino, CA 92408**

THIS AGREEMENT is made and entered into this ___ day of _____, 20**22**, between the City of San Bernardino, a Charter City and municipal corporation, ("City") and Owner. The Owner and the City are sometimes each individual

y referred to herein as a "Party" and, collectively, as the "Parties."

RECITALS

WHEREAS, the Owner owns real property ("Property") in the City specifically described in Exhibits "A" and "B" which are attached hereto and incorporated herein by this reference; and

WHEREAS, at the time of approval of the Owner's development project commonly known as **Gateway South 9 Development, LLC** (the "Project"), the City required the Project to employ on-site control measures to minimize pollutants in urban stormwater runoff; and

WHEREAS, the Owner has chosen to install **one (1) set of underground chambers for infiltration and one (1) hydrodynamic separator** [e.g. vegetated swales, drain inserts, media filters, pervious building material and other control measures] (the "Devices") to minimize pollutants in urban stormwater runoff; and

WHEREAS, the Devices having been installed in accordance with plans and specifications approved by the City; and

WHEREAS, the Devices being installed on private property and draining only private property, are private facilities with all maintenance or replacement therefore being the sole responsibility of the Owner; and

WHEREAS, the Owner is aware that periodic and continuous maintenance including, but not necessarily limited to, filter material replacement and sediment removal as specified in the site's Water Quality Management Plan (WQMP) is required to assure proper performance of the Devices; and

WHEREAS, the Owner is also aware that such maintenance activity will require compliance with all Federal, State and local laws and regulations, including those pertaining to confined space and waste disposal methods in effect at the time such maintenance occurs; and

WHEREAS, California Regional Water Quality Control Board Order No. R8-2010-0036 (NPDES No. CAS 618036) San Bernardino County Municipal Separate Storm Sewer System (MS4) Permit and San Bernardino Municipal Code Section 8.80.208 requires this Stormwater Treatment Device and Control Measure Access and Maintenance Agreement;

NOW, THEREFORE, in consideration of the City's approval of the Project and the mutual promises contained herein, the City of San Bernardino and Owner agree as follows:

AGREEMENT

1. The Owner hereby provides the City and its designees with full right of access to the Devices and the Owner's Property in the immediate vicinity of the Devices (a) at any time, upon reasonable notice; or (b) in the event of emergency, as determined by City's Public Works Director with no advance notice; for the purpose of inspecting, sampling and testing of the Devices, and in cases of emergency, to undertake all necessary repairs or other preventative measures at the Owner's expense as provided for in Section 3, below. The City shall make every effort at all times to minimize or avoid interference with the Owner's use of the Property when undertaking such inspections and repairs.

2. The Owner shall diligently maintain the Devices in a manner consistent with the manufacturers' recommended maintenance schedule or the maintenance schedule supplied in the site's WQMP to ensure efficient performance. All reasonable precautions shall be exercised by the Owner and the Owner's representatives in the removal and extraction of materials from the Devices, and the ultimate disposal of the materials in a manner consistent with all applicable laws. As may be requested from time to time by the City, the Owner shall provide the City with documentation identifying the materials removed, the quantity and the location of disposal destinations, as appropriate.

3. In the event the Owner fails to perform the necessary maintenance required by this Agreement within thirty (30) days of being given written notice by the City to do so, setting forth with specificity the action to be taken, the City is authorized to cause any maintenance necessary to be done and charge the entire cost and expense to the Owner, including administrative costs, attorneys' fees and interest thereon at the maximum rate authorized by law. Owner agrees that City may record a lien against the Property twenty (20) days after the City sends Owner the notice of charges if said charges have not been paid in full by Owner.

4. This Agreement shall be recorded in the Official Records of the County of San Bernardino at the expense of the Owner and shall constitute notice to all successors and assigns to the title to the Property of the obligations herein set forth.

5. In the event any action is commenced to enforce or interpret any of the terms or conditions of this Agreement the prevailing Party shall, in addition to any costs and other relief, be entitled to the recovery of its reasonable attorneys' fees. The costs, salary and expenses of the City Attorney and members of his office in enforcing this Agreement on behalf of the City shall be considered "attorney's fees" for the purposes of this Agreement.

6. It is the intent of the Parties that the burdens and benefits herein undertaken shall constitute equitable servitudes that run with the Property and shall be binding upon future owners of all or any portion of the Property. Any owner's liability hereunder shall terminate at the time it ceases to be an owner of the encumbered Property, except for obligations which accrue prior to the date of transfer by such owner, which shall remain the personal obligation of such owner.

7. Time is of the essence in the performance of this Agreement.

8. Any notice to a Party required or called for in this Agreement shall be served in person, or by deposit in the U.S. Mail, first class postage prepaid, to the address set forth below. Notice(s) shall be deemed effective upon receipt, or seventy-two (72) hours after deposit in the U.S. Mail, whichever is earlier. A Party may change notice address only by providing written notice thereof to the other Party.

CITY	OWNER
Public Works Director City of San Bernardino 201 North "E" Street, 2nd FLOOR San Bernardino, CA 92401	Scott Morse Gateway South 9 Development, LLC 36 Discovery, Suite 130 Irvine, CA 92618

9. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

10. Any amendment to this Agreement shall be in writing and approved by the Public Works Director of the City and signed by the City and the Owner.

I, THE UNDERSIGNED, HAVE A SUFFICIENT OWNERSHIP INTEREST IN THE PROPERTY HEREIN TO CONSENT TO THE IMPOSITION OF A LIEN THEREON, AND HAVE READ AND UNDERSTAND THE FOREGOING AND, BY MY SIGNATURE, AGREE TO COMPLY IN ALL RESPECTS WITH THE CONDITIONS OF THIS AGREEMENT AND *DO* ***HEREBY PERSONALLY GUARANTEE*** THE PAYMENT OF THESE FEES AND FURTHER AGREE TO THE PLACEMENT OF A LIEN AS DESCRIBED ABOVE ON THE PROPERTY.

Name of Company **Gateway South 9 Development, LLC**

Signature _____

Name Scott Morse Title Executive Vice President

(please print)

Mailing address 36 Discovery, Suite 130

City Irvine State CA Zip 92618

Phone (909) 382-0033

APPROVED AS TO CONTENT:

By:_____
Alex Qishta, Acting Director of Public Works/City Engineer
Public Works Department
City of San Bernardino

NOTE: All Signatures Must be Acknowledged by a Notary Public.

Attachment E
Educational Materials

Infiltration Basin TC-11

General Description

An infiltration basin is a shallow impoundment that is designed to infiltrate stormwater. Infiltration basins store stormwater runoff until it gradually exfiltrates into the underlying soil. Pollutant removal occurs through the infiltration of runoff and the adsorption of pollutants into the soil and vegetation. Additional benefits include:

- Reduced runoff volume and attenuation of peak flows, and
- Facilitated groundwater recharge thus helping to maintain low flows in stream systems.

Inspection/Maintenance Considerations

The use and regular maintenance of pretreatment BMPs will significantly minimize maintenance requirements for the basin. Installing vegetated swales or a sediment forebay upstream from the infiltration basin can provide effective pretreatment and reduce maintenance.

Spill response procedures and controls should be implemented to prevent spills from reaching the infiltration system. This BMP may require groundwater monitoring, and basins cannot be put into operation until the upstream tributary area is stabilized.

Advanced BMPs Covered



Maintenance Concerns

- *Vector Control*
- *Clogged soil or outlet structures*
- *Vegetation/Landscape Maintenance*
- *Groundwater contamination*
- *Accumulation of metals*
- *Aesthetics*

Targeted Constituents

Sediment	■
Nutrients	■
Trash	■
Metals	■
Bacteria	■
Oil and Grease	■
Organics	■

Legend (Removal Effectiveness)

● Low ▲ Medium ■ High

✱ Requires Pretreatment

Note: The removal effectiveness ratings shown in the table are for properly designed, sited, and maintained BMPs; some configurations will have variations in pollutant effectiveness.

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Non-Stormwater Discharges SC-10

Description

Non-stormwater discharges (NSWDs) are flows that do not consist entirely of stormwater. Some non-stormwater discharges do not include pollutants and may be discharged to the storm drain if local regulations allow. These include uncontaminated groundwater and natural springs. There are also some non-stormwater discharges that typically do not contain pollutants and may be discharged to the storm drain with conditions. These include: potable water sources, fire hydrant flushing, air conditioner condensate, landscape irrigation drainage and landscape watering, emergency firefighting, etc. as discussed in Section 2.

However there are certain non-stormwater discharges that pose an environmental concern. These discharges may originate from illegal dumping of industrial material or wastes and illegal connections such as internal floor drains, appliances, industrial processes, sinks, and toilets that are illegally connected to the nearby storm drainage system through on-site drainage and piping. These unauthorized discharges (examples of which may include: process waste waters, cooling waters, wash waters, and sanitary wastewater) can carry substances such as paint, oil, fuel and other automotive fluids, chemicals and other pollutants into storm drains.

Non-stormwater discharges will need to be addressed through a combination of detection and elimination. The ultimate goal is to effectively eliminate unauthorized non-stormwater discharges to the stormwater drainage system through implementation of measures to detect, correct, and enforce against illicit connections and illegal discharges of

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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CALIFORNIA STORMWATER QUALITY ASSOCIATION®

pollutants on streets and into the storm drain system and downstream water bodies.

Approach

Initially the Discharger must make an assessment of non-stormwater discharges to determine which types must be eliminated or addressed through BMPs. The focus of the following approach is the elimination of unauthorized non-stormwater discharges. See other BMP Fact Sheets for activity-specific pollution prevention procedures.

General Pollution Prevention Protocols

- Implement waste management controls described in SC-34 Waste Handling and Disposal.

- Develop clear protocols and lines of communication for effectively prohibiting non-stormwater discharges, especially those that are not classified as hazardous. These are often not responded to as effectively as they need to be.

- Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" or similar stenciled or demarcated next to them to warn against ignorant or unintentional dumping of pollutants into the storm drainage system.

- Manage and control sources of water such as hose bibs, faucets, wash racks, irrigation heads, etc. Identify hoses and faucets in the SWPPP, and post signage for appropriate use.

Non-Stormwater Discharge Investigation Protocols

Identifying the sources of non-stormwater discharges requires the Discharger to conduct an investigation of the facility at regular intervals. There are several categories of non-stormwater discharges:

- Visible, easily identifiable discharges, typically generated as surface runoff, such as uncontained surface runoff from vehicle or equipment washing; and

- Non-visible, (e.g., subsurface) discharges into the site drainage system through a variety of pathways that are not obvious.

The approach to detecting and eliminating non-stormwater discharges will vary considerably, as discussed below:

Visible and identifiable discharges

- Conduct routine inspections of the facilities and of each major activity area and identify visible evidence of unauthorized non-stormwater discharges. This may include:

  - ✓ Visual observations of actual discharges occurring;

- ✓ Evidence of surface staining, discoloring etc. that indicates that discharges have occurred;
- ✓ Pools of water in low lying areas when a rain event has not occurred; and
- ✓ Discussions with operations personnel to understand practices that may lead to unauthorized discharges.

- □ If evidence of non-stormwater discharges is discovered:
  - ✓ Document the location and circumstances using Worksheets 5 and 6 (Section 2 of the manual), including digital photos;
  - ✓ Identify and implement any quick remedy or corrective action (e.g., moving uncovered containers inside or to a proper location); and
  - ✓ Develop a plan to eliminate the discharge. Consult the appropriate activity-specific BMP Fact Sheet for alternative approaches to manage and eliminate the discharge.
- □ Consult the appropriate activity-specific BMP Fact Sheet for alternative approaches to manage and eliminate the discharge. Make sure the facility SWPPP is up-to-date and includes applicable BMPs to address the non-stormwater discharge.

Other Illegal Discharges (Non visible)

Illicit Connections

- □ Locate discharges from the industrial storm drainage system to the municipal storm drain system through review of "as-built" piping schematics.
- □ Isolate problem areas and plug illicit discharge points.
- □ Locate and evaluate discharges to the storm drain system.
- □ Visual Inspection and Inventory:
  - ✓ Inventory and inspect each discharge point during dry weather.
  - ✓ Keep in mind that drainage from a storm event can continue for a day or two following the end of a storm and groundwater may infiltrate the underground stormwater collection system.
  - ✓ Non-stormwater discharges are often intermittent and may require periodic inspections.

Review Infield Piping

- □ A review of the "as-built" piping schematic is a way to determine if there are any connections to the stormwater collection system.

- Inspect the path of loading/unloading area drain inlets and floor drains in older buildings.

- Never assume storm drains are connected to the sanitary sewer system.

Monitoring for investigation/detection of illegal discharges

- If a suspected illegal or unknown discharge is detected, monitoring of the discharge may help identify the content and/or suggest the source. This may be done with a field screening analysis, flow meter measurements, or by collecting a sample for laboratory analysis. Section 5 and Appendix D describe the necessary field equipment and procedures for field investigations.

- Investigative monitoring may be conducted over time. For example if, a discharge is intermittent, then monitoring might be conducted to determine the timing of the discharge to determine the source.

- Investigative monitoring may be conducted over a spatial area. For example, if a discharge is observed in a pipe, then monitoring might be conducted at accessible upstream locations in order to pinpoint the source of the discharge.

- Generally, investigative monitoring requiring collection of samples and submittal for lab analysis requires proper planning and specially trained staff.

Smoke Testing

Smoke testing of wastewater and stormwater collection systems is used to detect connections between the two piping systems. Smoke testing is generally performed at a downstream location and the smoke is forced upstream using blowers to create positive pressure. The advantage to smoke testing is that it can potentially identify multiple potential discharge sources at once.

- Smoke testing uses a harmless, non-toxic smoke cartridges developed specifically for this purpose.

- Smoke testing requires specialized equipment (e.g., cartridges, blowers) and is generally only appropriate for specially trained staff.

- A Standard Operating Procedure (SOP) for smoke testing is highly desirable. The SOP should address the following elements:

  - ✓ Proper planning and notification of nearby residents and emergency services is necessary since introducing smoke into the system may result in false alarms;

  - ✓ During dry weather, the stormwater collection system is filled with smoke and then traced back to sources;

- ✓ Temporary isolation of segments of pipe using sand bags is often needed to force the smoke into leaking pipes; and
- ✓ The appearance of smoke in a waste vent pipe, at a sewer manhole, or even the base of a toilet indicates that there may be a connection between the sanitary and storm water systems.

- Most municipal wastewater agencies will have necessary staff and equipment to conduct smoke testing and they should be contacted if cross connections with the sanitary sewer are suspected. See SC-44 Drainage System Maintenance for more information.

Dye Testing

- Dye testing is typically performed when there is a suspected specific pollutant source and location (i.e., leaking sanitary sewer) and there is evidence of dry weather flows in the stormwater collection system.
- Dye is released at a probable upstream source location, either the facility's sanitary or process wastewater system. The dye must be released with a sufficient volume of water to flush the system.
- Operators then visually examine the downstream discharge points from the stormwater collection system for the presence of the dye.
- Dye testing can be performed informally using commercially available products in order to conduct an initial investigation for fairly obvious cross-connections.
- More detailed dye testing should be performed by properly trained staff and follow SOPs. Specialized equipment such as fluorometers may be necessary to detect low concentrations of dye.
- Most municipal wastewater agencies will have necessary staff and equipment to conduct dye testing and they should be contacted if cross connections with the sanitary sewer are suspected.

TV Inspection of Drainage System

- Closed Circuit Television (CCTV) can be employed to visually identify illicit connections to the industrial storm drainage system. Two types of CCTV systems are available: (1) a small specially designed camera that can be manually pushed on a stiff cable through storm drains to observe the interior of the piping, or (2) a larger remote operated video camera on treads or wheels that can be guided through storm drains to view the interior of the pipe.
- CCTV systems often include a high-pressure water jet and camera on a flexible cable. The water jet cleans debris and biofilm off the inside of pipes so the camera can take video images of the pipe condition.

- CCTV units can detect large cracks and other defects such as offsets in pipe ends caused by root intrusions or shifting substrate.
- CCTV can also be used to detect dye introduced into the sanitary sewer.
- CCTV inspections require specialized equipment and properly trained staff and are generally best left to specialized contractors or municipal public works staff.

Illegal Dumping

- Substances illegally dumped on streets and into the storm drain systems and creeks may include paints, used oil and other automotive fluids, construction debris, chemicals, fresh concrete, leaves, grass clippings, and pet wastes. These wastes can cause stormwater and receiving water quality problems as well as clog the storm drain system itself.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Illegal dumping hot spots;
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ An anonymous tip/reporting mechanism; and
  - ✓ Evidence of responsible parties (e.g., tagging, encampments, etc.).
- One of the keys to success of reducing or eliminating illegal dumping is increasing the number of people at the facility who are aware of the problem and who have the tools to at least identify the incident, if not correct it. Therefore, train field staff to recognize and report the incidents.

Once a site has been cleaned:

- Post "No Dumping" signs with a phone number for reporting dumping and disposal.
- Landscaping and beautification efforts of hot spots may also discourage future dumping, as well as provide open space and increase property values.
- Lighting or barriers may also be needed to discourage future dumping.
- See fact sheet SC-11 Spill Prevention, Control, and Cleanup.

Inspection

- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- Conduct field investigations of the industrial storm drain system for potential sources of non-stormwater discharges.
- Pro-actively conduct investigations of high priority areas. Based on historical data, prioritize specific geographic areas and/or incident type for pro-active investigations.



Spill and Leak Prevention and Response

- On paved surfaces, clean up spills with as little water as possible. Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.
- Never hose down or bury dry material spills. Sweep up the material and dispose of properly.
- Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.
- For larger spills, a private spill cleanup company or Hazmat team may be necessary.
- See SC-11 Spill Prevention Control and Cleanup.



Employee Training Program

- Training of technical staff in identifying and documenting illegal dumping incidents is required. The frequency of training must be presented in the SWPPP, and depends on site-specific industrial materials and activities.
- Consider posting a quick reference table near storm drains to reinforce training.
- Train employees to identify non-stormwater discharges and report discharges to the appropriate departments.
- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills. The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur. Employees should be familiar with the Spill Prevention Control and Countermeasure Plan. Employees should be able to identify work/jobs with high potential for spills and suggest methods to reduce possibility.
- Determine and implement appropriate outreach efforts to reduce non-permissible non-stormwater discharges.

- Conduct spill response drills annually (if no events occurred) in order to evaluate the effectiveness of the plan.
- When a responsible party is identified, educate the party on the impacts of his or her actions.



Quality Assurance and Record Keeping

Performance Evaluation

- Annually review internal investigation results; assess whether goals were met and what changes or improvements are necessary.
- Obtain feedback from personnel assigned to respond to, or inspect for, illicit connections and illegal dumping incidents.
- Develop document and data management procedures.
- A database is useful for defining and tracking the magnitude and location of the problem.
- Report prohibited non-stormwater discharges observed during the course of normal daily activities so they can be investigated, contained, and cleaned up or eliminated.
- Document that non-stormwater discharges have been eliminated by recording tests performed, methods used, dates of testing, and any on-site drainage points observed.
- Annually document and report the results of the program.
- Maintain documentation of illicit connection and illegal dumping incidents, including significant conditionally exempt discharges that are not properly managed.
- Document training activities.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Many facilities do not have accurate, up-to-date 'as-built' plans or drawings which may be necessary in order to conduct non-stormwater discharge assessments.
  - ✓ Online tools such as Google Earth™ can provide an aerial view of the facility and may be useful in understanding drainage patterns and potential sources of non-stormwater discharges
  - ✓ Local municipal jurisdictions may have useful drainage systems maps.

- Video surveillance cameras are commonly used to secure the perimeter of industrial facilities against break-ins and theft. These surveillance systems may also be useful for capturing illegal dumping activities. Minor, temporary adjustments to the field of view of existing surveillance camera systems to target known or suspected problem areas may be a cost-effective way of capturing illegal dumping activities and identifying the perpetrators.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital facility cost requirements may be minimal unless cross-connections to storm drains are detected.
- Indoor floor drains may require re-plumbing if cross-connections are detected.
- Leaky sanitary sewers will require repair or replacement which can have significant costs depending on the size and industrial activity at the facility.

Maintenance (including administrative and staffing)

- The primary effort is for staff time and depends on how aggressively a program is implemented.
- Costs for containment, and disposal of any leak or discharge is borne by the Discharger.
- Illicit connections can be difficult to locate especially if there is groundwater infiltration.
- Illegal dumping and illicit connection violations requires technical staff to detect and investigate them.

Supplemental Information

Permit Requirements

The IGP authorizes certain Non-Storm Water Discharges (NSWDs) provided BMPs are included in the SWPPP and implemented to:

- Reduce or prevent the contact of authorized NSWDs with materials or equipment that are potential sources of pollutants;
- Reduce, to the extent practicable, the flow or volume of authorized NSWDs;
- Ensure that authorized NSWDs do not contain quantities of pollutants that cause or contribute to an exceedance of a water quality standards (WQS); and,

- Reduce or prevent discharges of pollutants in authorized NSWDs in a manner that reflects best industry practice considering technological availability and economic practicability and achievability."

References and Resources

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Sacramento Stormwater Management Program, *Best Management Practices for Industrial Storm Water Pollution Control*, Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

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Spill Prevention, Control & Cleanup SC-11

Description

Many activities that occur at an industrial or commercial site have the potential to cause accidental spills. Preparation for accidental spills, with proper training and reporting systems implemented, can minimize the discharge of pollutants to the environment.

Spills and leaks are one of the largest contributors of stormwater pollutants. Spill prevention and control plans are applicable to any site at which hazardous materials are stored or used. An effective plan should have spill prevention and response procedures that identify hazardous material storage areas, specify material handling procedures, describe spill response procedures, and provide locations of spill clean-up equipment and materials. The plan should take steps to identify and characterize potential spills, eliminate and reduce spill potential, respond to spills when they occur in an effort to prevent pollutants from entering the stormwater drainage system, and train personnel to prevent and control future spills. An adequate supply of spill clean-up materials must be maintained onsite.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

Approach

General Pollution Prevention Protocols

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems.
- ☐ Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- ☐ Establish procedures and/or controls to minimize spills and leaks. The procedures should address:
  - ✓ Description of the facility, owner and address, activities, chemicals, and quantities present;

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- ✓ Facility map of the locations of industrial materials;
- ✓ Notification and evacuation procedures;
- ✓ Cleanup instructions;
- ✓ Identification of responsible departments; and
- ✓ Identify key spill response personnel.

- ☐ Recycle, reclaim, or reuse materials whenever possible. This will reduce the amount of process materials that are brought into the facility.



Spill and Leak Prevention and Response

Spill Prevention

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems. Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.

- ☐ If illegal dumping is observed at the facility:

  - ✓ Post "No Dumping" signs with a phone number for reporting illegal dumping and disposal. Signs should also indicate fines and penalties applicable for illegal dumping.
  - ✓ Landscaping and beautification efforts may also discourage illegal dumping.
  - ✓ Bright lighting and/or entrance barriers may also be needed to discourage illegal dumping.

- ☐ Store and contain liquid materials in such a manner that if the container is ruptured, the contents will not discharge, flow, or be washed into the storm drainage system, surface waters, or groundwater.

- ☐ If the liquid is oil, gas, or other material that separates from and floats on water, install a spill control device (such as a tee section) in the catch basins that collects runoff from the storage tank area.



Preventative Maintenance

- ☐ Place drip pans or absorbent materials beneath all mounted taps, and at all potential drip and spill locations during filling and unloading of tanks. Any collected liquids or soiled absorbent materials must be reused/recycled or properly disposed.

- ☐ Store and maintain appropriate spill cleanup materials in a location known to all near the tank storage area; and ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

- ☐ Sweep and clean the storage area monthly if it is paved, *do not hose down the area to a storm drain.*

- ☐ Check tanks (and any containment sumps) daily for leaks and spills. Replace tanks that are leaking, corroded, or otherwise deteriorating with tanks in good condition. Collect all spilled liquids and properly dispose of them.

- ☐ Label all containers according to their contents (e.g., solvent, gasoline).

- ☐ Label hazardous substances regarding the potential hazard (corrosive, radioactive, flammable, explosive, poisonous).

- ☐ Prominently display required labels on transported hazardous and toxic materials (per US DOT regulations).

- ☐ Identify key spill response personnel.

Spill Response

- ☐ Clean up leaks and spills immediately.

- ☐ Place a stockpile of spill cleanup materials where it will be readily accessible (e.g., near storage and maintenance areas).

- ☐ On paved surfaces, clean up spills with as little water as possible.

  - ✓ Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills.

  - ✓ If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.

  - ✓ If possible use physical methods for the cleanup of dry chemicals (e.g., brooms, shovels, sweepers, or vacuums).

- ☐ Never hose down or bury dry material spills. Sweep up the material and dispose of properly.

- ☐ Chemical cleanups of material can be achieved with the use of adsorbents, gels, and foams. Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.

- ☐ For larger spills, a private spill cleanup company or Hazmat team may be necessary.

Reporting

- Report spills that pose an immediate threat to human health or the environment to the Regional Water Quality Control Board or local authority as location regulations dictate.
- Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hour).
- Report spills to 911 for dispatch and clean-up assistance when needed. Do not contact fire agencies directly.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ Clean-up procedures; and
  - ✓ Responsible parties.



Employee Training Program

- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills:
  - ✓ The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur; and
  - ✓ Employees should be familiar with the Spill Prevention Control and Countermeasure Plan.
- Employees should be educated about aboveground storage tank requirements. Employees responsible for aboveground storage tanks and liquid transfers should be thoroughly familiar with the Spill Prevention Control and Countermeasure Plan and the plan should be readily available.
- Train employees to recognize and report illegal dumping incidents.

Other Considerations (Limitations and Regulations)

- State regulations exist for facilities with a storage capacity of 10,000 gallons or more of petroleum to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan (Health & Safety Code Chapter 6.67).
- State regulations also exist for storage of hazardous materials (Health & Safety Code Chapter 6.95), including the preparation of area and business plans for emergency response to the releases or threatened releases.
- Consider requiring smaller secondary containment areas (less than 200 sq. ft.) to be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.

Requirements

Costs (including capital and operation & maintenance)

- Will vary depending on the size of the facility and the necessary controls.
- Prevention of leaks and spills is inexpensive. Treatment and/or disposal of contaminated soil or water can be quite expensive.

Maintenance (including administrative and staffing)

- Develop spill prevention and control plan, provide and document training, conduct inspections of material storage areas, and supply spill kits.
- Extra time is needed to properly handle and dispose of spills, which results in increased labor costs.

Supplemental Information

Further Detail of the BMP

Reporting

Record keeping and internal reporting represent good operating practices because they can increase the efficiency of the facility and the effectiveness of BMPs. A good record keeping system helps the facility minimize incident recurrence, correctly respond with appropriate cleanup activities, and comply with legal requirements. A record keeping and reporting system should be set up for documenting spills, leaks, and other discharges, including discharges of hazardous substances in reportable quantities. Incident records describe the quality and quantity of non-stormwater discharges to the storm sewer. These records should contain the following information:

- Date and time of the incident;
- Weather conditions;
- Duration of the spill/leak/discharge;

- Cause of the spill/leak/discharge;
- Response procedures implemented;
- Persons notified; and
- Environmental problems associated with the spill/leak/discharge.

Separate record keeping systems should be established to document housekeeping and preventive maintenance inspections, and training activities. All housekeeping and preventive maintenance inspections should be documented. Inspection documentation should contain the following information:

- Date and time the inspection was performed;
- Name of the inspector;
- Items inspected;
- Problems noted;
- Corrective action required; and
- Date corrective action was taken.

Other means to document and record inspection results are field notes, timed and dated photographs, videotapes, and drawings and maps.

Aboveground Tank Leak and Spill Control

Accidental releases of materials from aboveground liquid storage tanks present the potential for contaminating stormwater with many different pollutants. Materials spilled, leaked, or lost from tanks may accumulate in soils or on impervious surfaces and be carried away by stormwater runoff.

The most common causes of unintentional releases are:

- Installation problems;
- Failure of piping systems (pipes, pumps, flanges, couplings, hoses, and valves);
- External corrosion and structural failure;
- Spills and overfills due to operator error; and
- Leaks during pumping of liquids or gases from truck or rail car to a storage tank or vice versa.

Storage of reactive, ignitable, or flammable liquids should comply with the Uniform Fire Code and the National Electric Code. Practices listed below should be employed to enhance the code requirements:

- Tanks should be placed in a designated area.
- Tanks located in areas where firearms are discharged should be encapsulated in concrete or the equivalent.
- Designated areas should be impervious and paved with Portland cement concrete, free of cracks and gaps, in order to contain leaks and spills.
- Liquid materials should be stored in UL approved double walled tanks or surrounded by a curb or dike to provide the volume to contain 10 percent of the volume of all of the containers or 110 percent of the volume of the largest container, whichever is greater. The area inside the curb should slope to a drain.
- For used oil or dangerous waste, a dead-end sump should be installed in the drain.
- All other liquids should be drained to the sanitary sewer if available. The drain must have a positive control such as a lock, valve, or plug to prevent release of contaminated liquids.
- Accumulated stormwater in petroleum storage areas should be passed through an oil/water separator.

Maintenance is critical to preventing leaks and spills. Conduct routine inspections and:

- Check for external corrosion and structural failure.
- Check for spills and overfills due to operator error.
- Check for failure of piping system (pipes, pumps, flanges, coupling, hoses, and valves).
- Check for leaks or spills during pumping of liquids or gases from truck or rail car to a storage facility or vice versa.
- Visually inspect new tank or container installation for loose fittings, poor welding, and improper or poorly fitted gaskets.
- Inspect tank foundations, connections, coatings, and tank walls and piping system. Look for corrosion, leaks, cracks, scratches, and other physical damage that may weaken the tank or container system.
- Frequently relocate accumulated stormwater during the wet season.

- Periodically conduct integrity testing by a qualified professional.

Vehicle Leak and Spill Control

Major spills on roadways and other public areas are generally handled by highly trained Hazmat teams from local fire departments or environmental health departments. The measures listed below pertain to leaks and smaller spills at vehicle maintenance shops.

In addition to implementing the spill prevention, control, and clean up practices above, use the following measures related to specific activities:

Vehicle and Equipment Maintenance

- Perform all vehicle fluid removal or changing inside or under cover to prevent the run-on of stormwater and the runoff of spills.
- Regularly inspect vehicles and equipment for leaks, and repair immediately.
- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Immediately drain all fluids from wrecked vehicles.
- Store wrecked vehicles or damaged equipment under cover.
- Place drip pans or absorbent materials under heavy equipment when not in use.
- Use absorbent materials on small spills rather than hosing down the spill.
- Remove the adsorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Oil filters disposed of in trashcans or dumpsters can leak oil and contaminate stormwater. Place the oil filter in a funnel over a waste oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries, even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- Design the fueling area to prevent the run-on of stormwater and the runoff of spills:

  Cover fueling area if possible.

  Use a perimeter drain or slope pavement inward with drainage to a sump.

  Pave fueling area with concrete rather than asphalt.

- If dead-end sump is not used to collect spills, install an oil/water separator.
- Install vapor recovery nozzles to help control drips as well as air pollution.
- Discourage "topping-off" of fuel tanks.
- Use secondary containment when transferring fuel from the tank truck to the fuel tank.
- Use absorbent materials on small spills and general cleaning rather than hosing down the area. Remove the absorbent materials promptly.
- Carry out all Federal and State requirements regarding underground storage tanks, or install above ground tanks.
- Do not use mobile fueling of mobile industrial equipment around the facility; rather, transport the equipment to designated fueling areas.
- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Train employees in proper fueling and cleanup procedures.

Industrial Spill Prevention Response

For the purposes of developing a spill prevention and response program to meet the stormwater regulations, facility managers should use information provided in this fact sheet and the spill prevention/response portions of the fact sheets in this handbook, for specific activities.

The program should:

- Integrate with existing emergency response/hazardous materials programs (e.g., Fire Department).
- Develop procedures to prevent/mitigate spills to storm drain systems.
- Identify responsible departments.

- Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- Address spills at municipal facilities, as well as public areas.
- Provide training concerning spill prevention, response and cleanup to all appropriate personnel.

References and Resources

California's Nonpoint Source Program Plan. http://www.swrcb.ca.gov/nps/index.html.

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Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp.org.

The Stormwater Managers Resource Center. http://www.stormwatercenter.net/.

Outdoor Loading/Unloading SC-30

Description

The loading/unloading of materials usually takes place outside on docks or terminals; therefore, materials spilled, leaked, or lost during loading/unloading may collect in the soil or on other surfaces and have the potential to be carried away by wind, stormwater runoff or when the area is cleaned. Additionally, rainfall may wash pollutants from machinery used to unload or move materials. Implementation of the following protocols will prevent or reduce the discharge of pollutants to stormwater from outdoor loading/unloading of materials.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- Park tank trucks or delivery vehicles in designated areas so that spills or leaks can be contained.
- Limit exposure of material to rainfall whenever possible.
- Prevent stormwater run-on.
- Check equipment regularly for leaks.



Good Housekeeping

- Develop an operations plan that describes procedures for loading and/or unloading.
- Conduct loading and unloading in dry weather if possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover designated loading/unloading areas to reduce exposure of materials to rain.
- Consider placing a seal or door skirt between delivery vehicles and building to prevent exposure to rain.
- Design loading/unloading area to prevent stormwater run-on, which would include grading or berming the area, and position roof downspouts so they direct stormwater away from the loading/unloading areas.
- Have employees load and unload all materials and equipment in covered areas such as building overhangs at loading docks if feasible.
- Load/unload only at designated loading areas.
- Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections. Several drip pans should be stored in a covered location near the liquid transfer area so that they are always available, yet protected from precipitation when not in use. Drip pans can be made specifically for railroad tracks. Drip pans must be cleaned periodically, and drip collected materials must be disposed of properly.
- Pave loading areas with concrete instead of asphalt.
- Avoid placing storm drains inlets in the area.
- Grade and/or berm the loading/unloading area with drainage to sump; regularly remove materials accumulated in sump.



Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date or have an emergency spill cleanup plan readily available, as applicable.
- Contain leaks during transfer.
- Store and maintain appropriate spill cleanup materials in a location that is readily accessible and known to all employees.
- Ensure that employees are familiar with the site's spill control plan and proper spill cleanup procedures.
- Use drip pans or comparable devices when transferring oils, solvents, and paints.



Material Handling and Waste Management

- Spot clean leaks and drips routinely to prevent runoff of spillage.
- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

- Do not put used or leftover cleaning solutions, solvents, and automotive fluids in the storm drain or sanitary sewer.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.
  - ✓ Install a low containment berm around the waste receptacle area.
  - ✓ Use and maintain drip pans under waste receptacles.
- Post "no littering" signs.
- Perform work area clean-up and dry sweep after daily operations.



Employee Training Program

- Train employees (e.g., fork lift operators) and contractors on proper spill containment and cleanup.
- Have employees trained in spill containment and cleanup present during loading/unloading.
- Train employees in proper handling techniques during liquid transfers to avoid spills.
- Make sure forklift operators are properly trained on loading and unloading procedures.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document activities performed, quantities of materials removed, and improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.
- Keep accurate logs of daily clean-up operations.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Space and time limitations may preclude all transfers from being performed indoors or under cover.
  - ✓ Designate specific areas for outdoor loading and unloading.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.
- It may not be possible to conduct transfers only during dry weather.
  - ✓ Limit materials and equipment rainfall exposure to all extents practicable.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

Many facilities will already have indoor or covered areas where loading/unloading takes place and will require no additional capital expenditures.

If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.

Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.

- Conduct regular inspections and make repairs and improvements as necessary.
- Check loading and unloading equipment regularly for leaks.
- Conduct regular broom dry-sweeping of area. Do not wash with water.

Supplemental Information

Loading and Unloading of Liquids

- Loading or unloading of liquids should occur in the manufacturing building so that any spills that are not completely retained can be discharged to the sanitary sewer,

treatment plant, or treated in a manner consistent with local sewer authorities and permit requirements.

- For loading and unloading tank trucks to above and below ground storage tanks, the following procedures should be used:
  - ✓ The area where the transfer takes place should be paved. If the liquid is reactive with the asphalt, Portland cement should be used to pave the area.
  - ✓ The transfer area should be designed to prevent run-on of stormwater from adjacent areas. Sloping the pad and using a curb, like a speed bump, around the uphill side of the transfer area should reduce run-on.
  - ✓ The transfer area should be designed to prevent runoff of spilled liquids from the area. Sloping the area to a drain should prevent runoff. The drain should be connected to a dead-end sump or to the sanitary sewer. A positive control valve should be installed on the drain.
- For transfer from rail cars to storage tanks that must occur outside, use the following procedures:
  - ✓ Drip pans should be placed at locations where spillage may occur, such as hose connections, hose reels, and filler nozzles. Use drip pans when making and breaking connections.
  - ✓ Drip pan systems should be installed between the rails to collect spillage from tank cars.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

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Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/.

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Outdoor Equipment Operations SC-32

Description

Outside process equipment operations and maintenance can contaminate stormwater runoff. Activities, such as grinding, painting, coating, sanding, degreasing or parts cleaning, landfills and waste piles, and solid waste treatment and disposal are examples of process operations that can lead to contamination of stormwater runoff. The targeted constituents will vary for each site depending on the operation being performed.

Approach

Implement source control BMPs to limit exposure of outdoor equipment to direct precipitation and stormwater run-on. Refer to SC-22 Vehicle and Equipment Repair for additional information.

General Pollution Prevention Protocols

- ☐ Perform the activity during dry periods whenever possible.
- ☐ Install secondary containment measures where leaks and spills may occur.
- ☐ Use non-toxic chemicals for maintenance and minimize or eliminate the use of solvents.
- ☐ Connect process equipment area to public sanitary sewer or facility wastewater treatment system when possible. Some jurisdictions require that secondary containment areas be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.



Good Housekeeping

- ☐ Manage materials and waste properly (see Material Handling and Waste Management) to reduce adverse impacts on stormwater quality.

Objectives
■ Cover
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover the work area with a permanent roof if possible.
- Use drop cloths for sanding and painting operations.
- Use a vacuum for fine particle clean-up in pavement cracks and crevices.
- Minimize contact of stormwater with outside process equipment operations through berming and drainage routing (run-on prevention).
- "Spot clean" leaks and drips routinely. Leaks are not cleaned up until the absorbent is picked up and disposed of properly.
- Paint signs on storm drain inlets to indicate that they are not to receive liquid or solid wastes.
- Use roll down or permanent walls when windy/breezy to prevent wind transport of particulates/pollutants.



Preventative Maintenance

- Design outdoor equipment areas to prevent stormwater runoff and spills. Use a perimeter drain or slope pavement inward with drainage to sump.
- Dry clean the work area regularly. Do not wash outdoor equipment with water if there is a direct connection to the storm drain.
- Pave area with concrete rather than asphalt.
- Inspect outdoor equipment regularly for leaks or spills. Also check for structural failure, spills and overfills due to operator error, and/or failure of piping system.
- Inspect and clean, if necessary, storm drain inlets and catch basins within the outdoor equipment area before October 1 each year.



Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Have employees trained in emergency spill cleanup procedures present when dangerous waste, liquid chemicals, or other wastes are delivered.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Prevent operator errors by using engineering safe guards and thus reducing accidental releases of pollutant.



Material Handling and Waste Management

- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drain or sewer connections.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees on proper equipment operation and maintenance procedures.
- Train all employees upon hiring and annually thereafter on proper methods for handling and disposing of waste. Ensure that all employees understand stormwater discharge prohibitions, wastewater discharge requirements, and these best management practices.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for outdoor equipment, types and quantities of materials removed and disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Providing cover over outdoor equipment may be impractical or cost-prohibitive.
  - ✓ Operate outdoor equipment only during periods of dry weather.
- Regular operations and time limitations may require outdoor activities during wet weather.
  - ✓ Designate specific areas for outdoor activities.
  - ✓ Allow time for work area clean-up after each shift.
  - ✓ Require employees to understand and follow preventive maintenance and spill and leak prevention BMPs.
  - ✓ Design and install secondary containment and good housekeeping BMPs for outdoor equipment area.
- Storage sheds often must meet building and fire code requirements.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Many facilities will already have indoor covered areas where vehicle and equipment repairs take place and will require no additional capital expenditures.
- If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.
- For facilities responsible for pre-treating their wastewater prior to discharging, the proper functioning of structural treatment system is an important maintenance consideration.
- Routine cleanout of oil and grease is required for the devices to maintain their effectiveness, usually at least once a month. During periods of heavy rainfall, cleanout is required more often to ensure pollutants are not washed through the trap. Sediment removal is also required on a regular basis to keep the device working efficiently.

References and Resources

Minnesota Pollution Control Agency. *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315*. Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Oregon Department of Environmental Quality, *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations*, February 2013. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: Best Management Practices. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Waste Handling & Disposal SC-34

Description

Improper storage and handling of solid wastes can allow toxic compounds, oils and greases, heavy metals, nutrients, suspended solids, and other pollutants to enter stormwater runoff. The discharge of pollutants to stormwater from waste handling and disposal can be prevented and reduced by tracking waste generation, storage, and disposal; reducing waste generation and disposal through source reduction, reuse, and recycling; and preventing run-on and runoff.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Accomplish reduction in the amount of waste generated using the following source controls:
  - ✓ Production planning and sequencing;
  - ✓ Process or equipment modification;
  - ✓ Raw material substitution or elimination;
  - ✓ Loss prevention and housekeeping;
  - ✓ Waste segregation and separation; and
  - ✓ Close loop recycling.
- ☐ Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.
- ☐ Recycle materials whenever possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Use the entire product before disposing of the container.
- To the extent possible, store wastes under cover or indoors after ensuring all safety concerns such as fire hazard and ventilation are addressed.
- Provide containers for each waste stream at each work station. Allow time after shift to clean area.



Good Housekeeping

- Cover storage containers with leak proof lids or some other means. If waste is not in containers, cover all waste piles (plastic tarps are acceptable coverage) and prevent stormwater run-on and runoff with a berm. The waste containers or piles must be covered except when in use.
- Use drip pans or absorbent materials whenever grease containers are emptied by vacuum trucks or other means. Grease cannot be left on the ground. Collected grease must be properly disposed of as garbage.
- Dispose of rinse and wash water from cleaning waste containers into a sanitary sewer if allowed by the local sewer authority. Do not discharge wash water to the street or storm drain. Clean in a designated wash area that drains to a clarifier.
- Transfer waste from damaged containers into safe containers.
- Take special care when loading or unloading wastes to minimize losses. Loading systems can be used to minimize spills and fugitive emission losses such as dust or mist. Vacuum transfer systems can minimize waste loss.
- Keep the waste management area clean at all times by sweeping and cleaning up spills immediately.
- Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Stencil or demarcate storm drains on the facility's property with prohibitive message regarding waste disposal.
- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- If possible, move the activity indoor after ensuring all safety concerns such as fire hazard and ventilation are addressed.



Preventative Maintenance

- Prevent stormwater run-on from entering the waste management area by enclosing the area or building a berm around the area.
- Prevent waste materials from directly contacting rain.

- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- Cover the area with a permanent roof if feasible.
- Cover dumpsters to prevent rain from washing waste out of holes or cracks in the bottom of the dumpster.
- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, vacuuming, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.



Spill Response and Prevention Procedures

- Keep your spill prevention and plan up-to-date.
- Have an emergency plan, equipment and trained personnel ready at all times to deal immediately with major spills.
- Collect all spilled liquids and properly dispose of them.
- Store and maintain appropriate spill cleanup materials in a location known to all near the designated wash area.
- Ensure that vehicles transporting waste have spill prevention equipment that can prevent spills during transport. Spill prevention equipment includes:
  - ✓ Vehicles equipped with baffles for liquid waste; and
  - ✓ Trucks with sealed gates and spill guards for solid waste.



Material Handling and Waste Management

Litter Control

- Post "No Littering" signs and enforce anti-litter laws.
- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.

Waste Collection

- Keep waste collection areas clean.

- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.

Chemical/Hazardous Wastes

- Select designated hazardous waste collection areas on-site.
- Store hazardous materials and wastes in covered containers and protect them from vandalism.
- Place hazardous waste containers in secondary containment.
- Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Hazardous waste cannot be reused or recycled; it must be disposed of by a licensed hazardous waste hauler.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for waste handling and disposal, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.

- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and the types of waste handled. Significant capital costs may be associated with reducing wastes by modifying processes or implementing closed-loop recycling.
- Many facilities will already have indoor covered areas where waste materials will be stored and will require no additional capital expenditures for providing cover.
- If outdoor storage of wastes is required, construction of berms or other means to prevent stormwater run-on and runoff may require appropriate constructed systems for containment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315,* Revised. Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

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Oregon Department of Environmental Quality, 2013. *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: Best Management Practices. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Safer Alternative Products SC-35

Description

Promote the use of less harmful products and products that contain little or no TMDL and 303(d) list pollutants. Alternatives exist for most product classes including chemical fertilizers, pesticides, cleaning solutions, janitorial chemicals, automotive and paint products, and consumables (batteries, fluorescent lamps).

Approach

Pattern a new program after the many established programs around the state and country. Integrate this best management practice as much as possible with existing programs at your facility.

Develop a comprehensive program based on:

- The "Precautionary Principle," which is an alternative to the "Risk Assessment" model that says it's acceptable to use a potentially harmful product until physical evidence of its harmful effects are established and deemed too costly from an environmental or public health perspective. For instance, a risk assessment approach might say it's acceptable to use a pesticide until there is direct proof of an environmental impact. The Precautionary Principle approach is used to evaluate whether a given product is safe, whether it is really necessary, and whether alternative products would perform just as well.
- Environmentally Preferable Purchasing Program to minimize the purchase of products containing hazardous ingredients used in the facility's custodial services, fleet maintenance, and facility maintenance in favor of using alternate products that pose less risk to employees and to the environment.
- Integrated Pest Management (IPM) or Less-Toxic Pesticide Program, which uses a pest management approach that minimizes the use of toxic chemicals and gets rid of pests

Objectives
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	

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by methods that pose a lower risk to employees, the public, and the environment.

- Energy Efficiency Program including no-cost and low-cost energy conservation and efficiency actions that can reduce both energy consumption and electricity bills, along with long-term energy efficiency investments.

Consider the following mechanisms for developing and implementing a comprehensive program:

- Policies
- Procedures
  - ✓ Standard operating procedures (SOPs);
  - ✓ Purchasing guidelines and procedures; and
  - ✓ Bid packages (services and supplies).
- Materials
  - ✓ Preferred or approved product and supplier lists;
  - ✓ Product and supplier evaluation criteria;
  - ✓ Training sessions and manuals; and
  - ✓ Fact sheets for employees.

Implement this BMP in conjunction with the Vehicle and Equipment Management fact sheets (SC-20 – SC-22) and SC-41 Building and Grounds Maintenance.



Employee Training Program

- Employees who handle potentially harmful materials should be trained in the use of safer alternatives.
- Purchasing departments should be trained on safer alternative products and encouraged to procure less hazardous materials and products that contain little or no harmful substances or TMDL pollutants.
- Employees and contractors / service providers can both be educated about safer alternatives by using information developed by a number of organizations including the references and resources provided in this fact sheet.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds"

- Alternative products may not be available, suitable, or effective in every case.

- ✓ Minimize use of hazardous/harmful products if no alternative product is available.

Regulatory Considerations

This BMP has no regulatory requirements unless local/municipal ordinance applies. Existing regulations already encourage facilities to reduce the use of hazardous materials through incentives such as reduced:

- Specialized equipment storage and handling requirements;
- Storm water runoff sampling requirements;
- Training and licensing requirements; and
- Record keeping and reporting requirements.

Cost Considerations

- The primary cost is for staff time to: 1) develop new policies and procedures and 2) educate purchasing departments and employees who handle potentially harmful materials about the availability, procurement, and use of safer alternatives.
- Some alternative products may be slightly more expensive than conventional products.

Supplemental Information

The following discussion provides some general information on safer alternatives. More specific information on particular hazardous materials and the available alternatives may be found in the references and resources listed below.

- Automotive products – Less toxic alternatives are not available for many automotive products, especially engine fluids. But there are alternatives to grease lubricants, car polishes, degreasers, and windshield washer solution. Refined motor oil is also available.
- Vehicle/Trailer lubrication – Fifth wheel bearings on trucks require routine lubrication. Adhesive lubricants are available to replace typical chassis grease.
- Cleaners – Vegetables-based or citrus-based soaps are available to replace petroleum-based soaps/detergents.
- Paint products – Water-based paints, wood preservatives, stains, and finishes with low VOC content are available.
- Pesticides – Specific alternative products or methods exist to control most insects, fungi, and weeds.
- Chemical Fertilizers – Compost and soil amendments are natural alternatives.
- Consumables – Manufacturers have either reduced or are in the process of reducing the amount of heavy metals in consumables such as batteries and fluorescent lamps.

All fluorescent lamps contain mercury, however low-mercury containing lamps are now available from most hardware and lighting stores. Fluorescent lamps are also more energy efficient than the average incandescent lamp.

- Janitorial chemicals – Even biodegradable soap can harm fish and wildlife before it biodegrades. Biodegradable does not mean non-toxic. Safer products and procedures are available for floor stripping and cleaning, as well as carpet, glass, metal, and restroom cleaning and disinfecting. Use paper products with post-consumer recycled content and implement electric had dryers.

Examples

There are a number of business and trade associations, and communities with effective programs. Some of the more prominent are listed below in the references and resources section.

References and Resources

Note: Many of these references provide alternative products for materials that typically are used inside and disposed to the sanitary sewer as well as alternatives to products that usually end up in the storm drain.

General Sustainable Practices and Pollution Prevention Including Pollutant-Specific Information

California Department of Toxic Substances Control, http://www.dtsc.ca.gov/PollutionPrevention/GreenTechnology/Index.cfm.

CalRecycle, http://www.calrecycle.ca.gov/Business/Regulated.htm.

City of Santa Monica Office of Sustainability and Environment, http://www.smgov.net/departments/ose/.

City of Palo Alto, http:// www.city.palo-alto.ca.us/cleanbay.

City and County of San Francisco, Department of the Environment, http://www.sfenvironment.org/toxics-health/greener-business-practices.

Green Business Program, http://www.greenbiz.ca.gov/GRlocal.html .

Product Stewardship Institute, http://www.productstewardship.us/index.cfm.

Sacramento Clean Water Business Partners. http://www.sacstormwater.org/CleanWaterBusinessPartners/CleanWaterBusinessPartners.html.

USEPA. National Pollutant Discharge Elimination System (NPDES) Stormwater Discharges From Industrial Facilities, http://cfpub.epa.gov/npdes/stormwater/indust.cfm.

USEPA Region IX Pollution Prevention Program, http://www.epa.gov/region9/waste/p2/business.html.

Western Sustainability and Pollution Prevention Network, http://wsppn.org/.

Metals (mercury, copper)

National Electrical Manufacturers Association – Environmental Stewardship, http://www.nema.org/Policy/Environmental-Stewardship/pages/default.aspx.

Sustainable Conservation, http://www.suscon.org.

Auto Recycling Project

Brake Pad Partnership

Pesticides and Chemical Fertilizers

Bio-Integral Resource Center, http://www.birc.org.

California Department of Pesticide Regulation, http://www.cdpr.ca.gov/dprprograms.htm.

University of California Statewide IPM Program, http://www.ipm.ucdavis.edu/default.html.

Dioxins

Bay Area Dioxins Project, http://www.abag.ca.gov/bayarea/dioxin/project_materials.htm.

Building & Grounds Maintenance SC-41

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, abnormal pH, and oils and greases. Utilizing the protocols in this fact sheet will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Switch to non-toxic chemicals for maintenance to the maximum extent possible.
- ☐ Choose cleaning agents that can be recycled.
- ☐ Encourage proper lawn management and landscaping, including use of native vegetation.
- ☐ Encourage use of Integrated Pest Management techniques for pest control.
- ☐ Encourage proper onsite recycling of yard trimmings.
- ☐ Recycle residual paints, solvents, lumber, and other material as much as possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	
Organics	

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Clean work areas at the end of each work shift using dry cleaning methods such as sweeping and vacuuming.



Good Housekeeping

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.

- If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff.

- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.

Landscaping Activities

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.

- Use mulch or other erosion control measures on exposed soils. See also SC-40, Contaminated and Erodible Areas, for more information.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.

- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.

- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.

- Clean paintbrushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.

- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. This is particularly necessary on rainy days. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and

solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. If directed off-site, you should direct the water through hay bales and filter fabric or use other sediment filters or traps.
- Store toxic material under cover during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures when soils are exposed.
- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Consider an alternative approach when bailing out muddy water: do not put it in the storm drain; pour over landscaped areas.
- Use hand weeding where practical.

Fertilizer and Pesticide Management

- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount needed for the job.
- Calibrate fertilizer distributors to avoid excessive application.
- Employ techniques to minimize off-target application (e.g., spray drift) of pesticides, including consideration of alternative application techniques.
- Apply pesticides only when wind speeds are low.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering and repair leaks in the irrigation system as soon as they are observed.

Building & Grounds Maintenance SC-41



Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials, such as brooms, dustpans, and vacuum sweepers (if desired) near the storage area where it will be readily accessible.
- Have employees trained in spill containment and cleanup present during the loading/unloading of dangerous wastes, liquid chemicals, or other materials.
- Familiarize employees with the Spill Prevention Control and Countermeasure Plan.
- Clean up spills immediately.



Material Handling and Waste Management

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.
- Use less toxic pesticides that will do the job when applicable. Avoid use of copper-based pesticides if possible.
- Dispose of empty pesticide containers according to the instructions on the container label.
- Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.



Employee Training Program

- Educate and train employees on pesticide use and in pesticide application techniques to prevent pollution.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Be sure the frequency of training takes into account the complexity of the operations and the needs of individual staff.



Quality Assurance and Record Keeping

- Keep accurate logs that document maintenance activities performed and minimum BMP measures implemented.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Additional capital costs are not anticipated for building and grounds maintenance. Implementation of the minimum BMPs described above should be conducted as part of regular site operations.

Maintenance

- Maintenance activities for the BMPs described above will be minimal, and no additional cost is anticipated.

Supplemental Information

Fire Sprinkler Line Flushing

Site fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water, though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping, but it is subject to rusting and results in lower quality water. Initially, the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time (typically a year) and between flushes may accumulate iron, manganese, lead, copper, nickel, and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual.*

Kennedy/Jenks Consultants, 2007. *The Truckee Meadows Industrial and Commercial Storm Water Best Management Practices Handbook*. Available online at: http://www.cityofsparks.us/sites/default/files/assets/documents/env-control/construction/TM-I-C_BMP_Handbook_2-07-final.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

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US EPA, 1997. *Best Management Practices Handbook for Hazardous Waste Containers*. Available online at: http://www.epa.gov/region6/6en/h/handbk4.pdf.

Ventura Countywide Stormwater Management Program Clean Business Fact Sheets. Available online at: http://www.vcstormwater.org/documents/programs_business/building.pdf.

Building Repair and Construction SC-42

Description

Site modifications are common, particularly at large industrial sites. The activity may vary from minor and normal building repair to major remodeling, or the construction of new facilities. These activities can generate pollutants including solvents, paints, paint and varnish removers, finishing residues, spent thinners, soap cleaners, kerosene, asphalt and concrete materials, adhesive residues, and old asbestos installation. Protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants to stormwater from building repair, remodeling, and minor construction by using soil erosion controls, enclosing or covering building material storage areas, using good housekeeping practices, using safer alternative products, and training employees.

This fact sheet is intended to be used for minor repairs and construction. If major construction is required, the guidelines in the Construction BMP Handbook should be followed.

Approach

The BMP approach is to reduce potential for pollutant discharges through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Recycle residual paints, solvents, lumber, and other materials to the maximum extent practicable.
- ☐ Avoid outdoor repairs and construction during periods of wet weather.
- ☐ Use safer alternative products to the maximum extent practicable. See also SC-35 Safer Alternative Products for more information.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	✓
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Buy recycled products to the maximum extent practicable.
- Inform on-site contractors of company policy on these matters and include appropriate provisions in their contract to ensure certain proper housekeeping and disposal practices are implemented.
- Make sure that nearby storm drains are well marked to minimize the chance of inadvertent disposal of residual paints and other liquids.



Good Housekeeping

Repair & Remodeling

- Keep the work site clean and orderly. Remove debris in a timely fashion. Sweep and vacuum the area regularly to remove sediments and small debris.
- Cover raw materials of particular concern that must be left outside, particularly during the rainy season. See also SC-33 Outdoor Storage of Raw Materials for more information.
- Use equipment and tools such as bag sanders to reduce accumulation of debris.
- Limit/prohibit work on windy days; implement roll-down walls or other measures to reduce wind transport of pollutants.
- Do not dump waste liquids down the storm drain.
- Dispose of wash water, sweepings, and sediments properly.
- Store liquid materials properly that are normally used in repair and remodeling such as paints and solvents. See also SC-31 Outdoor Liquid Container Storage for more information.
- Sweep out rain gutters or wash the gutter and trap the particles at the outlet of the downspout. A sock or geofabric placed over the outlet may effectively trap the materials. If the downspout is tight lined, place a temporary plug at the first convenient point in the storm drain and pump out the water with a vactor truck, and clean the catch basin sump where you placed the plug.
- Clean the storm drain system in the immediate vicinity of the construction activity after it is completed. See also SC-44 Drainage System Maintenance for more information.

Painting

- Enclose painting operations consistent with local air quality regulations and OSHA.
- Local air pollution regulations may, in many areas of the state, specify painting procedures which if properly carried out are usually sufficient to protect water quality.
- Develop paint handling procedures for proper use, storage, and disposal of paints.

- Transport paint and materials to and from job sites in containers with secure lids and tied down to the transport vehicle.
- Test and inspect spray equipment prior to starting to paint. Tighten all hoses and connections and do not overfill paint containers.
- Mix paint indoors before using so that any spill will not be exposed to rain. Do so even during dry weather because cleanup of a spill will never be 100 percent effective.
- Transfer and load paint and hot thermoplastic away from storm drain inlets.
- Do not transfer or load paint near storm drain inlets.
- Plug nearby storm drain inlets prior to starting painting and remove plugs when job is complete when there is risk of a spill reaching storm drains.
- Cover nearby storm drain inlets prior to starting work if sand blasting is used to remove paint.
- Use a ground cloth to collect the chips if painting requires scraping or sand blasting of the existing surface. Dispose of the residue properly.
- Cover or enclose painting operations properly to avoid drift.
- Clean the application equipment in a sink that is connected to the sanitary sewer if using water based paints.
- Capture all cleanup-water and dispose of properly.
- Dispose of paints containing lead or tributyl tin and considered a hazardous waste properly.
- Store leftover paints if they are to be kept for the next job properly, or dispose properly.
- Recycle paint when possible. Dispose of paint at an appropriate household hazardous waste facility.



Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Clean up spills immediately.
- Excavate and remove the contaminated (stained) soil if a spill occurs on dirt.



Material Handling and Waste Management

- Post “No Littering” signs and enforce anti-litter laws.

- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.
- Keep waste collection areas clean.
- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.
- Make sure that hazardous waste is collected, removed, and disposed of properly. See also SC-34, Waste Handling and Disposal for more information.



Sediment and Erosion Controls

- Limit disturbance to bare soils and preserve natural vegetation whenever possible. See also EC-2, Preservation of Existing Vegetation, in the Construction BMP Handbook.
- Stabilize loose soils by re-vegetating whenever possible. See also EC-4 Hydroseeding, in the Construction BMP Handbook.
- Utilize non-vegetative stabilization methods for areas prone to erosion where vegetative options are not feasible. Examples include:
  - ✓ Areas of vehicular or pedestrian traffic such as roads or paths;
  - ✓ Arid environments where vegetation would not provide timely ground coverage, or would require excessive irrigation;
  - ✓ Rocky substrate, infertile or droughty soils where vegetation would be difficult to establish; and
  - ✓ Areas where vegetation will not grow adequately within the construction time frame.

  There are several non-vegetative stabilization methods and selection should be based on site-specific conditions. See also EC-16 Non-Vegetative Stabilization, in the Construction BMP Handbook.

- Utilize chemical stabilization when needed. See also EC-5 Soil Binders, in the Construction BMP Handbook.
- Use geosynthetic membranes to control erosion if feasible. See also EC-7 Geotextiles and Mats, in the Construction BMP Handbook.
- Stabilize all roadways, entrances, and exits to sufficiently control discharges of erodible materials from discharging or being tracked off the site. See also TC 1-3 Tracking Control, in the Construction BMP Handbook.
- Refer to the supplemental information provided below for projects that involve more extensive soil disturbance activities.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly implement the source control BMPs described above. Detailed information for Sediment and Erosion Control BMPs is provided in the Construction BMP Handbook.
- Proper education of off-site contractors is often overlooked. The conscientious efforts of well trained employees can be lost by unknowing off-site contractors, so make sure they are well informed about pollutant source control responsibilities.
- Use a training log or similar method to document training.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for building repair and construction, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- This BMP is for minor construction only. The State's General Construction Activity Stormwater Permit has more extensive requirements for larger projects that would disturb one or more acres of surface.
  - ✓ Refer to the companion "Construction Best Management Practice Handbook" which contains specific guidance and best management practices for larger-scale projects.

- Time constraints may require some outdoor repairs and construction during wet weather.
  - ✓ Require employees to understand and follow good housekeeping and spill and leak prevention BMPs.
  - ✓ Inspect sediment and erosion control BMPs daily during periods of wet weather and repair or improve BMP implementation as necessary.
- Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste hauler.
  - ✓ Minimize use of hazardous materials to the maximum extent practicable.
- Be certain that actions to help stormwater quality are consistent with Cal- and Fed-OSHA and air quality regulations.
- Prices for recycled/safer alternative materials and fluids may be higher than those of conventional materials.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Limited capital investments may be required at some sites if adequate cover and containment facilities do not exist for construction materials and wastes.
- Purchase and installation of erosion and sediment controls, if needed will require additional capital investments, and this amount will vary depending on site characteristics and the types of BMPs being implemented.
- Minimize costs by maintaining existing vegetation and limiting construction operations on bare soils.

Maintenance

- The erosion and sediment control BMPs described above require periodic inspection and maintenance to remain effective. The cost of these actions will vary depending on site characteristics and the types of BMPs being implemented.
- Irrigation costs may be required to establish and maintain vegetation.

Supplemental Information

Soil/Erosion Control

If the work involves exposing large areas of soil, employ the appropriate soil erosion and control techniques. See the Construction Best Management Practice Handbook. If old buildings are being torn down and not replaced in the near future, stabilize the site using measures described in SC-40 Contaminated or Erodible Areas.

Building Repair and Construction SC-42

If a building is to be placed over an open area with a storm drainage system, make sure the storm inlets within the building are covered or removed, or the storm line is connected to the sanitary sewer. If because of the remodeling a new drainage system is to be installed or the existing system is to be modified, consider installing catch basins as they serve as effective "in-line" treatment devices. Include in the catch basin a "turn-down" elbow or similar device to trap floatables.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

California Stormwater Quality Association, 2012. *Construction Stormwater Best Management Practice Handbook*. Available at http://www.casqa.org.

Kennedy/Jenks Consultants, 2007. *The Truckee Meadows Industrial and Commercial Storm Water Best Management Practices Handbook*. Available online at: http://www.cityofsparks.us/sites/default/files/assets/documents/env-control/construction/TM-I-C_BMP_Handbook_2-07-final.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

US EPA. *Construction Site Stormwater Runoff Control*. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=4.

Parking Area Maintenance SC-43

Description

Parking lots can contribute a number of substances, such as trash, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants from parking areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

BMPs for other outdoor areas on site (loading/unloading, material storage, and equipment operations) are described in SC-30 through SC-33.

Approach

The goal of this program is to ensure stormwater pollution prevention practices are considered when conducting activities on or around parking areas to reduce potential for pollutant discharge to receiving waters. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- Encourage advanced designs and maintenance strategies for impervious parking lots. Refer to the treatment control BMP fact sheets in this manual for additional information.
- Keep accurate maintenance logs to evaluate BMP implementation.

Good Housekeeping

- Keep all parking areas clean and orderly. Remove debris, litter, and sediments in a timely fashion.
- Post "No Littering" signs and enforce anti-litter laws.

Objectives
Cover
Contain
Educate
Reduce/Minimize
Product Substitution

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- ☐ Provide an adequate number of litter receptacles.
- ☐ Clean out and cover litter receptacles frequently to prevent spillage.

Preventative Maintenance

Inspection

Have designated personnel conduct inspections of parking facilities and stormwater conveyance systems associated with parking facilities on a regular basis.

- ☐ Inspect cleaning equipment/sweepers for leaks on a regular basis.

Surface Cleaning

- ☐ Use dry cleaning methods (e.g., sweeping, vacuuming) to prevent the discharge of pollutants into the stormwater conveyance system if possible.
- ☐ Establish frequency of public parking lot sweeping based on usage and field observations of waste accumulation.
- ☐ Sweep all parking lots at least once before the onset of the wet season.
- ☐ Dispose of parking lot sweeping debris and dirt at a landfill.
- ☐ Follow the procedures below if water is used to clean surfaces:
  - ✓ Block the storm drain or contain runoff.
  - ✓ Collect and pump wash water to the sanitary sewer or discharge to a pervious surface. Do not allow wash water to enter storm drains.
- ☐ Follow the procedures below when cleaning heavy oily deposits:
  - ✓ Clean oily spots with absorbent materials.
  - ✓ Use a screen or filter fabric over inlet, then wash surfaces.
  - ✓ Do not allow discharges to the storm drain.
  - ✓ Vacuum/pump discharges to a tank or discharge to sanitary sewer.
  - ✓ Dispose of spilled materials and absorbents appropriately.

Surface Repair

- ☐ Check local ordinance for SUSMP/LID ordinance.
- ☐ Preheat, transfer or load hot bituminous material away from storm drain inlets.
- ☐ Apply concrete, asphalt, and seal coat during dry weather to prevent contamination from contacting stormwater runoff.
- ☐ Cover and seal nearby storm drain inlets where applicable (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in

place until job is complete and all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal.

- Use only as much water as necessary for dust control during sweeping to avoid runoff.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.



Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up fluid spills immediately with absorbent rags or material.
- Dispose of spilled material and absorbents properly.



Employee Training Program

- Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Use a training log or similar method to document training.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for parking area maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital investments may be required at some sites to purchase sweeping equipment, train sweeper operators, install oil/water/sand separators, or implement advanced BMPs. These costs can vary significantly depending upon site conditions and the amount of BMPs required.

Maintenance

- Sweep and clean parking lots regularly to minimize pollutant transport into storm drains from stormwater runoff.
- Clean out oil/water/sand separators regularly, especially after heavy storms.
- Maintain advanced BMPs such as vegetated swales, infiltration trenches, or detention basins as appropriate. Refer to the treatment control fact sheets for more information.

Supplemental Information

Advanced BMPs

Some parking areas may require advanced BMPs to further reduce pollutants in stormwater runoff, and a few examples are listed below. Refer to the Treatment Control Fact Sheets and the New Development and Redevelopment Manual for more information.

- When possible, direct sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low quantities.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual.*

California Stormwater Quality Association, 2003. *New Development and Redevelopment Stormwater Best Management Practice Handbook*. Available online at: https://www.casqa.org/resources/bmp-handbooks/new-development-redevelopment-bmp-handbook.

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Pollution from Surface Cleaning Folder, 1996, 2003. Bay Area Stormwater Management Agencies Association. Available online at: http://basmaa.org/Portals/0/documents/pdf/Pollution%20from%20Surface%20Cleaning.pdf.

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The Storm Water Managers Resource Center, http://www.stormwatercenter.net.

US EPA. *Post-Construction Stormwater Management in New Development and Redevelopment*. BMP Fact Sheets. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=5.

Drainage System Maintenance SC-44

Description

As a consequence of its function, the stormwater drainage facilities on site convey stormwater that may contain certain pollutants either to the offsite conveyance system that collects and transports urban runoff and stormwater, or directly to receiving waters. The protocols in this fact sheet are intended to reduce pollutants leaving the site to the offsite drainage infrastructure or to receiving waters through proper on-site conveyance system operation and maintenance. The targeted constituents will vary depending on site characteristics and operations.

Approach

Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Maintain catch basins, stormwater inlets, and other stormwater conveyance structures on a regular basis to remove pollutants, reduce high pollutant concentrations during the first flush of storms, prevent clogging of the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system functions properly hydraulically to avoid flooding.
- ☐ Develop and follow a site specific drainage system maintenance plan that describes maintenance locations, methods, required equipment, water sources, sediment collection areas, disposal requirements, and any other pertinent information.

Good Housekeeping

Illicit Connections and Discharges

- ☐ Look for evidence of illegal discharges or illicit connections during routine maintenance of conveyance system and drainage structures:

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- ✓ Identify evidence of spills such as paints, discoloring, odors, etc.
- ✓ Record locations of apparent illegal discharges/illicit connections.
- ✓ Track flows back to potential discharges and conduct aboveground inspections. This can be done through visual inspection of upgradient manholes or alternate techniques including zinc chloride smoke testing, fluorometric dye testing, physical inspection testing, or television camera inspection.
- ✓ Eliminate the discharge once the origin of flow is established.

- ☐ Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" or similar stenciled next to them to warn against ignorant or intentional dumping of pollutants into the storm drainage system.
- ☐ Refer to fact sheet SC-10 Non-Stormwater Discharges for additional information.

Illegal Dumping

- ☐ Inspect and clean up hot spots and other storm drainage areas regularly where illegal dumping and disposal occurs.
- ☐ Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Illegal dumping hot spots;
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills); and
  - ✓ Responsible parties.
- ☐ Post "No Dumping" signs in problem areas with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- ☐ Refer to fact sheet SC-10 Non-Stormwater Discharges for additional information.



Preventative Maintenance

Catch Basins/Inlet Structures

- ☐ Staff should regularly inspect facilities to ensure compliance with the following:
  - ✓ Immediate repair of any deterioration threatening structural integrity.
  - ✓ Cleaning before the sump is 40% full. Catch basins should be cleaned as frequently as needed to meet this standard.

- Clean catch basins, storm drain inlets, and other conveyance structures before the wet season to remove sediments and debris accumulated during the summer.
- Conduct inspections more frequently during the wet season for problem areas where sediment or trash accumulates more often. Prioritize storm drain inlets; clean and repair as needed.
- Keep accurate logs of the number of catch basins cleaned.
- Store wastes collected from cleaning activities of the drainage system in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain.
- Dewater the wastes if necessary with outflow into the sanitary sewer if permitted. Water should be treated with an appropriate filtering device prior to discharge to the sanitary sewer. If discharge to the sanitary sewer is not allowed, water should be pumped or vacuumed to a tank and properly disposed. Do not dewater near a storm drain or stream.

Storm Drain Conveyance System

- Locate reaches of storm drain with deposit problems and develop a flushing schedule that keeps the pipe clear of excessive buildup.
- Collect and pump flushed effluent to the sanitary sewer for treatment whenever possible.

Pump Stations

- Clean all storm drain pump stations prior to the wet season to remove silt and trash.
- Do not allow discharge to reach the storm drain system when cleaning a storm drain pump station or other facility.
- Conduct routine maintenance at each pump station.
- Inspect, clean, and repair as necessary all outlet structures prior to the wet season.

Open Channel

- Modify storm channel characteristics to improve channel hydraulics, increase pollutant removals, and enhance channel/creek aesthetic and habitat value.
- Conduct channel modification/improvement in accordance with existing laws. Any person, government agency, or public utility proposing an activity that will change the natural state of any river, stream, or lake in California, must enter into a Steam or Lake Alteration Agreement with the Department of Fish and Wildlife. The developer-applicant should also contact local governments (city, county, special districts), other state agencies (SWRCB, RWQCB, Department of Forestry, Department of Water Resources), and Army Corps of Engineers and USFWS.



Spill Response and Prevention Procedures

- Keep your spill prevention control plan up-to-date.

- Investigate all reports of spills, leaks, and/or illegal dumping promptly.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags) or dig up, remove, and properly dispose of contaminated soil.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
- Have staff involved in detection and removal of illicit connections trained in the following:
  - ✓ OSHA-required Health and Safety Training (29 CFR 1910.120) plus annual refresher training (as needed).
  - ✓ OSHA Confined Space Entry training (Cal-OSHA Confined Space, Title 8 and Federal OSHA 29 CFR 1910.146).
  - ✓ Procedural training (field screening, sampling, smoke/dye testing, TV inspection).



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for drainage system maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Keep accurate logs of illicit connections, illicit discharges, and illegal dumping into the storm drain system including how wastes were cleaned up and disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Provided below are typical limitations and recommended "work-arounds" for drainage system maintenance:

- Clean-up activities may create a slight disturbance for local aquatic species. Access to items and material on private property may be limited. Trade-offs may exist between channel hydraulics and water quality/riparian habitat. If storm channels or basins are recognized as wetlands, many activities, including maintenance, may be subject to regulation and permitting.

  - ✓ Perform all maintenance onsite and do not flush accumulated material downstream to private property or riparian habitats.

- Storm drain flushing is most effective in small diameter pipes (36-inch diameter pipe or less, depending on water supply and sediment collection capacity). Other considerations associated with storm drain flushing may include the availability of a water source, finding a downstream area to collect sediments, and liquid/sediment disposal.

  - ✓ Develop and follow a site specific drainage system maintenance plan that describes maintenance locations, methods, required equipment, water sources, sediment collection areas, disposal requirements, and any other pertinent information.

- Regulations may include adoption of substantial penalties for illegal dumping and disposal.

  - ✓ Do not dump illegal materials anywhere onsite.

  - ✓ Identify illicit connections, illicit discharge, and illegal dumping.

  - ✓ Cleanup spills immediately and properly dispose of wastes.

- Local municipal codes may include sections prohibiting discharge of soil, debris, refuse, hazardous wastes, and other pollutants into the sanitary sewer system.

  - ✓ Collect all materials and pollutants accumulated in drainage system and dispose of according to local regulations.

  - ✓ Install debris excluders in areas with a trash TMDL.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and characteristics of the drainage system. Significant capital costs may be associated with purchasing water trucks, vacuum trucks, and any other necessary cleaning equipment or improving the drainage infrastructure to reduce the potential .

- Developing and implementing a site specific drainage system maintenance plan will require additional capital if a similar program is not already in place.

Maintenance

- Two-person teams may be required to clean catch basins with vactor trucks.
- Teams of at least two people plus administrative personnel are required to identify illicit discharges, depending on the complexity of the storm sewer system.
- Arrangements must be made for proper disposal of collected wastes.
- Technical staff are required to detect and investigate illegal dumping violations.
- Methods used for illicit connection detection (smoke testing, dye testing, visual inspection, and flow monitoring) can be costly and time-consuming. Site-specific factors, such as the level of impervious area, the density and ages of buildings, and type of land use will determine the level of investigation necessary.

Supplemental Information

Storm Drain Flushing

Flushing is a common maintenance activity used to improve pipe hydraulics and to remove pollutants in storm drainage systems. Flushing may be designed to hydraulically convey accumulated material to strategic locations, such as an open channel, another point where flushing will be initiated, or the sanitary sewer and the treatment facilities, thus preventing re-suspension and overflow of a portion of the solids during storm events. Flushing prevents "plug flow" discharges of concentrated pollutant loadings and sediments. Deposits can hinder the designed conveyance capacity of the storm drain system and potentially cause backwater conditions in severe cases of clogging.

Storm drain flushing usually takes place along segments of pipe with grades that are too flat to maintain adequate velocity to keep particles in suspension. An upstream manhole is selected to place an inflatable device that temporarily plugs the pipe. Further upstream, water is pumped into the line to create a flushing wave. When the upstream reach of pipe is sufficiently full to cause a flushing wave, the inflated device is rapidly deflated with the assistance of a vacuum pump, thereby releasing the backed up water and resulting in the cleaning of the storm drain segment.

To further reduce impacts of stormwater pollution, a second inflatable device placed well downstream may be used to recollect the water after the force of the flushing wave has dissipated. A pump may then be used to transfer the water and accumulated material to the sanitary sewer for treatment. In some cases, an interceptor structure may be more practical or required to recollect the flushed waters.

It has been found that cleansing efficiency of periodic flush waves is dependent upon flush volume, flush discharge rate, sewer slope, sewer length, sewer flow rate, sewer diameter, and population density. As a rule of thumb, the length of line to be flushed should not exceed 700 feet. At this maximum recommended length, the percent removal efficiency ranges between 65-75% for organics and 55-65% for dry weather grit/inorganic material. The percent removal efficiency drops rapidly beyond that. Water is commonly supplied by a water truck, but fire hydrants can also supply water. To make the best use of water, it is recommended that reclaimed water be used if allowed or that fire hydrant line flushing coincide with storm sewer flushing.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

Knox County Tennessee *Stormwater Management Manual* Chapter 5 Drainage System Maintenance, 2008. Available online at: http://www.knoxcounty.org/stormwater/manual/Volume%201/knoxco_swmm_v1_chap5_jan2008.pdf.

US EPA. Storm Drain System Cleaning, 2012. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=102.

Efficient Irrigation SD-12



Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

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- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect
  - Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Storm Drain Signage SD-13



Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Waste materials dumped into storm drain inlets can have severe impacts on receiving and ground waters. Posting notices regarding discharge prohibitions at storm drain inlets can prevent waste dumping. Storm drain signs and stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets.

Approach

The stencil or affixed sign contains a brief statement that prohibits dumping of improper materials into the urban runoff conveyance system. Storm drain messages have become a popular method of alerting the public about the effects of and the prohibitions against waste disposal.

Suitable Applications

Stencils and signs alert the public to the destination of pollutants discharged to the storm drain. Signs are appropriate in residential, commercial, and industrial areas, as well as any other area where contributions or dumping to storm drains is likely.

Design Considerations

Storm drain message markers or placards are recommended at all storm drain inlets within the boundary of a development project. The marker should be placed in clear sight facing toward anyone approaching the inlet from either side. All storm drain inlet locations should be identified on the development site map.

Designing New Installations

The following methods should be considered for inclusion in the project design and show on project plans:

- Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language. Examples include “NO DUMPING

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– DRAINS TO OCEAN" and/or other graphical icons to discourage illegal dumping.

- Post signs with prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area.

Note - Some local agencies have approved specific signage and/or storm drain message placards for use. Consult local agency stormwater staff to determine specific requirements for placard types and methods of application.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. If the project meets the definition of "redevelopment", then the requirements stated under " designing new installations" above should be included in all project design plans.

Additional Information

Maintenance Considerations

- Legibility of markers and signs should be maintained. If required by the agency with jurisdiction over the project, the owner/operator or homeowner's association should enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards or signs.

Placement

- Signage on top of curbs tends to weather and fade.

- Signage on face of curbs tends to be worn by contact with vehicle tires and sweeper brooms.

Supplemental Information

Examples

- Most MS4 programs have storm drain signage programs. Some MS4 programs will provide stencils, or arrange for volunteers to stencil storm drains as part of their outreach program.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Maintenance Bays & Docks SD-31



Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Several measures can be taken to prevent operations at maintenance bays and loading docks from contributing a variety of toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to the stormwater conveyance system.

Approach

In designs for maintenance bays and loading docks, containment is encouraged. Preventative measures include overflow containment structures and dead-end sumps. However, in the case of loading docks from grocery stores and warehouse/distribution centers, engineered infiltration systems may be considered.

Suitable Applications

Appropriate applications include commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for vehicle maintenance and repair are governed by Building and Fire Codes, and by current local agency ordinances, and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code requirements.

Designing New Installations

Designs of maintenance bays should consider the following:

- Repair/maintenance bays and vehicle parts with fluids should be indoors; or designed to preclude urban run-on and runoff.
- Repair/maintenance floor areas should be paved with Portland cement concrete (or equivalent smooth impervious surface).

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- Repair/maintenance bays should be designed to capture all wash water leaks and spills. Provide impermeable berms, drop inlets, trench catch basins, or overflow containment structures around repair bays to prevent spilled materials and wash-down waters form entering the storm drain system. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

- Other features may be comparable and equally effective.

The following designs of loading/unloading dock areas should be considered:

- Loading dock areas should be covered, or drainage should be designed to preclude urban run-on and runoff.

- Direct connections into storm drains from depressed loading docks (truck wells) are prohibited.

- Below-grade loading docks from grocery stores and warehouse/distribution centers of fresh food items should drain through water quality inlets, or to an engineered infiltration system, or an equally effective alternative. Pre-treatment may also be required.

- Other features may be comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Stormwater and non-stormwater will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permit.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Trash Storage Areas SD-32

Description

Trash storage areas are areas where a trash receptacle (s) are located for use as a repository for solid wastes. Stormwater runoff from areas where trash is stored or disposed of can be polluted. In addition, loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or creeks. Waste handling operations that may be sources of stormwater pollution include dumpsters, litter control, and waste piles.

Approach

This fact sheet contains details on the specific measures required to prevent or reduce pollutants in stormwater runoff associated with trash storage and handling. Preventative measures including enclosures, containment structures, and impervious pavements to mitigate spills, should be used to reduce the likelihood of contamination.

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Design requirements for waste handling areas are governed by Building and Fire Codes, and by current local agency ordinances and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code and ordinance requirements. Hazardous waste should be handled in accordance with legal requirements established in Title 22, California Code of Regulation.

Wastes from commercial and industrial sites are typically hauled by either public or commercial carriers that may have design or access requirements for waste storage areas. The design criteria in this fact sheet are recommendations and are not intended to be in conflict with requirements established by the waste hauler. The waste hauler should be contacted prior to the design of your site trash collection areas. Conflicts or issues should be discussed with the local agency.

Designing New Installations

Trash storage areas should be designed to consider the following structural or treatment control BMPs:

- Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater.
- Make sure trash container areas are screened or walled to prevent off-site transport of trash.

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- Use lined bins or dumpsters to reduce leaking of liquid waste.
- Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers.
- Pave trash storage areas with an impervious surface to mitigate spills.
- Do not locate storm drains in immediate vicinity of the trash storage area.
- Post signs on all dumpsters informing users that hazardous materials are not to be disposed of therein.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Maintenance Considerations

The integrity of structural elements that are subject to damage (i.e., screens, covers, and signs) must be maintained by the owner/operator. Maintenance agreements between the local agency and the owner/operator may be required. Some agencies will require maintenance deed restrictions to be recorded of the property title. If required by the local agency, maintenance agreements or deed restrictions must be executed by the owner/operator before improvement plans are approved.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Attachment F
Infiltration Report

June 17, 2022

Hillwood
36 Discovery, Suite 130
Irvine, CA 92618

Attention: Ms. Alissa Welch
Development Coordinator

Project No.: **22G179-2**

Subject: **Results of Infiltration Testing**
Proposed Warehouse Development
SEC East Norman Road and Lena Road
San Bernardino, California

Reference: Geotechnical Feasibility Study, Proposed Warehouse Development, South Side of East Norman Road, 470± feet East of Lena Road, San Bernardino, California, prepared by Southern California Geotechnical, Inc. (SCG) for Hillwood, SCG Project No. 22G179-1, dated June 20, 2022.

Ms. Welch:

In accordance with your request, we have conducted infiltration testing at the subject site. We are pleased to present this report summarizing the results of the infiltration testing and our design recommendations.

Scope of Services

The scope of services performed for this project was in general accordance with our Proposal No. 22P201R, dated April 19, 2022. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the on-site soils. The infiltration testing was performed in general accordance with the guidelines published in the Riverside County – Low Impact Development BMP Design Handbook – Section 2.3 of Appendix A, prepared for the Riverside County Department of Environmental Health (RCDEH), dated December, 2013. The San Bernardino County standards defer to the guidelines published by the RCDEH.

Site and Project Description

The subject site is located on the south side of East Norman Road, approximately 470± feet east of the intersection of Lena Road and East Norman Road in San Bernardino, California. The site is bounded to the north by East Norman Road, to the west by a trailer storage facility and single-family residences (SFR's), to the south by East Orange Show Road, and to the east by a trailer storage facility. The general location of the site is illustrated on the Site Location Map, included as Plate 1 in Appendix A of this report.

The overall site consists of sixteen (16) rectangular- to irregular-shaped parcels (identified as Parcel Nos. 4 through 12 and Parcel Nos. 18 through 24), which total 12.35± acres in size. Based

on our visit to the site and review of aerial photographs obtained from Google Earth, the site is currently developed with numerous SFR's, trailer storage equipment, and vacant and undeveloped lots. The SFR's are located on Parcel Nos. 4 through 11 and parcels 22 and 24. The residences consist of single-story buildings of wood frame and stucco construction, assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The residences are surrounded by moderate quantities of small to medium-sized trees and bushes. The ground surface cover for the trailer storage lots generally consist of asphaltic concrete (AC) pavements with isolated areas of Portland cement concrete (PCC), crushed base, and exposed soil. The southern area of Parcel No. 12 contains a 1,000± ft² telecommunications structure with a large artificial tree. The ground surface cover in the vacant lots consist of exposed soil with sparse native grass and weed growth.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth and visual observations made at the time of the subsurface investigation, the site is relatively flat with an overall site topography gently sloping downward to the south-southwest at a gradient of approximately 1 percent.

Proposed Development

A conceptual site plan, identified as Scheme 3 revision A prepared by HPA, Inc., for the proposed development was provided to our office by the client. Based on this plan, the subject site will be developed with a 243,200± ft^2, identified as Building 9, located in the northeastern region of the site. Dock-high doors and a truck court will be constructed on the south side of the proposed building. The new building is expected to be surrounded by AC pavements in the parking and drive areas, and PCC pavements in the loading dock area. Several landscaped planters and concrete flatwork are also expected to be included throughout the site.

We understand that the proposed development may include on-site stormwater infiltration. Based on our experience with similar projects in the area, the infiltration system is expected to be a below-grade chamber system. The bottom of the infiltration system is expected to be 12± feet below the existing site grades.

Concurrent Study

SCG concurrently conducted a geotechnical investigation at the subject site, referenced above. As a part of this study, three (3) borings (identified as Boring Nos. B-1 through B-3) were advanced to depths of 25 to 50± feet below the existing site grades. In addition to the borings, four (4) Cone Penetration Test (CPT) soundings (identified as CPT-1 through CPT-4) were advanced to a depth of 50± feet below the existing site grades, as part of the liquefaction evaluation.

Artificial fill soils were encountered at the ground surface at Boring Nos. B-1 and B-3, extending to depths of 4½ and 2½± feet below the existing site grades, respectively. The fill soils generally consist of loose to medium dense silty sands. The fill soils possess a mottled and disturbed appearance and some samples contain artificial debris, such as glass fragments, resulting in their classification as artificial fill. Native alluvium was encountered beneath the artificial fill soils at Boring Nos. B-1 and B-3, and at the ground surface at Boring No. B-2, extending to at least the maximum depth explored of 50± feet below the existing site grades. The alluvium generally

consists of loose to medium dense sands, silty sands and gravelly sands, extending to depths of 17 to 22± feet. At greater depth and extending to at least the maximum depth explored of 50± feet, the alluvium generally consists of medium dense to dense sands, silty sands, gravelly sands and sandy silts, with occasional very stiff silty clays and clayey silts. Boring No. B-1 encountered a stratum consisting of very loose sands at a depth of 12 to 17± feet. Boring No. B-2 encountered a stratum consisting of very dense sands at a depth of 22 to 25± feet.

Groundwater

Free water was encountered during drilling at Boring Nos. B-1 and B-3 at a depth of 34± feet below the ground surface. Due to caving conditions within the open boreholes, delayed readings could not be taken within the open boreholes. Based on the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth of 34± feet at the time of the subsurface exploration.

As a part of our research, we reviewed available groundwater data in order to determine groundwater levels for the site. Water level data was obtained from the California Department of Water Resources website, https://wdl.water.ca.gov/waterdatalibrary/. Several monitoring wells are located within 1-mile radius of the site. Water level readings within these monitoring wells indicate a high groundwater level of 28± feet below the ground surface in September 1950.

Additional research (USGS Bulletin 1898, Matti and Carson, 1991) indicates that the minimum historic depth to groundwater at the site is 10± feet. Therefore, a groundwater depth of 10± feet is considered to be conservative with respect to the more recent site conditions.

Subsurface Exploration

Scope of Exploration

The subsurface exploration conducted for the infiltration testing consisted of two (2) infiltration test borings, advanced to a depth of 12± feet below the existing site grades. The infiltration borings were advanced using a truck-mounted drilling rig, equipped with 8-inch-diameter hollow-stem augers and were logged during drilling by a member of our staff. The approximate locations of the infiltration test borings (identified as I-1 and I-2) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Upon the completion of the infiltration borings, the bottom of each test boring was covered with 2± inches of clean ¾-inch gravel. A sufficient length of 3-inch-diameter perforated PVC casing was then placed into each test hole so that the PVC casing extended from the bottom of the test hole to the ground surface. Clean ¾-inch gravel was then installed in the annulus surrounding the PVC casing.

Geotechnical Conditions

Native alluvial soils were encountered at the ground surface at both infiltration test locations, extending to at least the maximum depth explored of 12± feet. The alluvium generally consists of very loose to medium dense fine to coarse sands, gravelly fine to coarse sands, and fine to

medium sandy gravels. The Boring Logs, which illustrate the conditions encountered at the boring locations, are included with this report.

Infiltration Testing

As previously mentioned, the infiltration testing was performed in general accordance with the guidelines published in Riverside County – Low Impact Development BMP Design Handbook – Section 2.3 of Appendix A, which apply to San Bernardino County.

Pre-soaking

In accordance with the county infiltration standards for sandy soils, the infiltration test borings were pre-soaked 2 hours prior to the infiltration testing or until all of the water had percolated through the test holes. The pre-soaking process consisted of filling test borings by inverting a full 5-gallon bottle of clear water supported over each hole so that the water flow into the hole holds constant at a level at least 5 times the hole's radius above the gravel at the bottom of each hole. Pre-soaking was completed after all of the water had percolated through the test holes.

Infiltration Testing

Following the pre-soaking process of the infiltration test borings, SCG performed the infiltration testing. Each test hole was filled with water to a depth of at least 5 times the hole's radius above the gravel at the bottom of the test holes. In accordance with the Riverside County guidelines, since "sandy soils" (where 6 inches of water infiltrated into the surrounding soils in less than 25 minutes for two consecutive readings) were encountered at the bottom of the infiltration test borings, readings were taken at 10-minute intervals for a total of 1 hour. After each reading, water was added to the borings so that the depth of the water was at least 5 times the radius of the hole. The water level readings are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on the spreadsheets.

The infiltration rates from the tests are tabulated in inches per hour. In accordance with the typically accepted practice, it is recommended that the most conservative reading from the latter part of the infiltration tests be used as the design infiltration rate. The rates are summarized below:

Infiltration Test No.	Depth (feet)	Soil Description	Measured Infiltration Rate (inches/hour)
I-1	12	Fine to medium Sandy Gravel, trace Silt, little coarse Sand	16.9
I-2	12	Gravelly fine to coarse Sand	15.8

Laboratory Testing

Moisture Content

The moisture contents for the recovered soil samples within the borings were determined in accordance with ASTM D-2216 and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Grain Size Analysis

The grain size distribution of selected soils collected from the base of each infiltration test boring have been determined using a range of wire mesh screens. These tests were performed in general accordance with ASTM D-422 and/or ASTM D-1140. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of these tests are presented on Plates C-1 and C-2 of this report.

Design Recommendations

Two (2) infiltration tests were performed at the subject site. As noted above, the infiltration rates at these locations vary from 15.8 to 16.9 inches per hour. **Based on the infiltration test results, we recommend an infiltration rate of 15.8 inches per hour be used for the chamber system.**

The design of the storm water infiltration system should be performed by the project civil engineer, in accordance with the County of San Bernardino guidelines. It is recommended that the system be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the system. The presence of such materials would decrease the effective infiltration rates. **It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rate recommended above is based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rate.** It should be noted that the recommended infiltration rate is based on infiltration testing at two (2) discrete locations and that the overall infiltration rate of the proposed infiltration system could vary considerably.

Infiltration Rate Considerations

The infiltration rate presented herein was determined in accordance with the San Bernardino County guidelines and is considered valid only for the time and place of the actual test. Varying subsurface conditions will exist in other areas of the site, which could alter the recommended infiltration rate presented above. The infiltration rate will decline over time between maintenance cycles as silt or clay particles accumulate on the BMP surface. The infiltration rate is highly dependent upon a number of factors, including density, silt and clay content, grainsize distribution throughout the range of particle sizes, and particle shape. Small changes in these factors can cause large changes in the infiltration rate.

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the

saturated zone. Once the soils become saturated, infiltration rates become zero, and water can only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. Changes in soil moisture content will affect the infiltration rate. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

Construction Considerations

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Compaction of the soils at the bottom of the infiltration system can significantly reduce the infiltration ability of the basins. Therefore, the subgrade soils within proposed infiltration system areas should not be over-excavated, undercut or compacted in any significant manner. **It is recommended that a note to this effect be added to the project plans and/or specifications.**

We recommend that a representative from the geotechnical engineer be on-site during the construction of the proposed infiltration system to identify the soil classification at the base of the system. It should be confirmed that the soils at the base of the proposed infiltration system correspond with those presented in this report to ensure that the performance of the system will be consistent with the rate reported herein.

We recommend that scrapers and other rubber-tired heavy equipment not be operated on the basin bottom, or at levels lower than 2 feet above the bottom of the system, particularly within basins. As such, the bottom 24 inches of the infiltration system should be excavated with non-rubber-tired equipment, such as excavators.

Infiltration Chamber Maintenance

The proposed project may include infiltration chambers. Water flowing into these chambers will carry some level of sediment. This layer has the potential to significantly reduce the infiltration rate of the chamber subgrade soils. Therefore, a formal chamber maintenance program should be established to ensure that these silt and clay deposits are removed from the chamber on a regular basis.

Location of Infiltration Systems

The use of on-site storm water infiltration systems carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration area could potentially be damaged due to saturation of the subgrade soils. **The proposed infiltration system for this site should be located at least 25 feet away from any structures, including retaining walls.** Even with this provision of locating the infiltration system at least 25 feet from the building(s), it is possible that infiltrating water into the subsurface soils could have an adverse

effect on the proposed or existing structures. It should also be noted that utility trenches which happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore, consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration system.

The infiltration system designer should also give special consideration to the effect that the proposed infiltration system may have on nearby subterranean structures, open excavations, or descending slopes. In particular, infiltration systems should not be located near the crest of descending slopes, particularly where the slopes are comprised of granular soils. Such systems will require specialized design and analysis to evaluate the potential for slope instability, piping failures and other phenomena that typically apply to earthen dam design. This type of analysis is beyond the scope of this infiltration test report, but these factors should be considered by the infiltration system designer when locating the infiltration systems.

General Comments

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the proposed storm water infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rate contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the proposed storm water infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with

generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

Closure

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

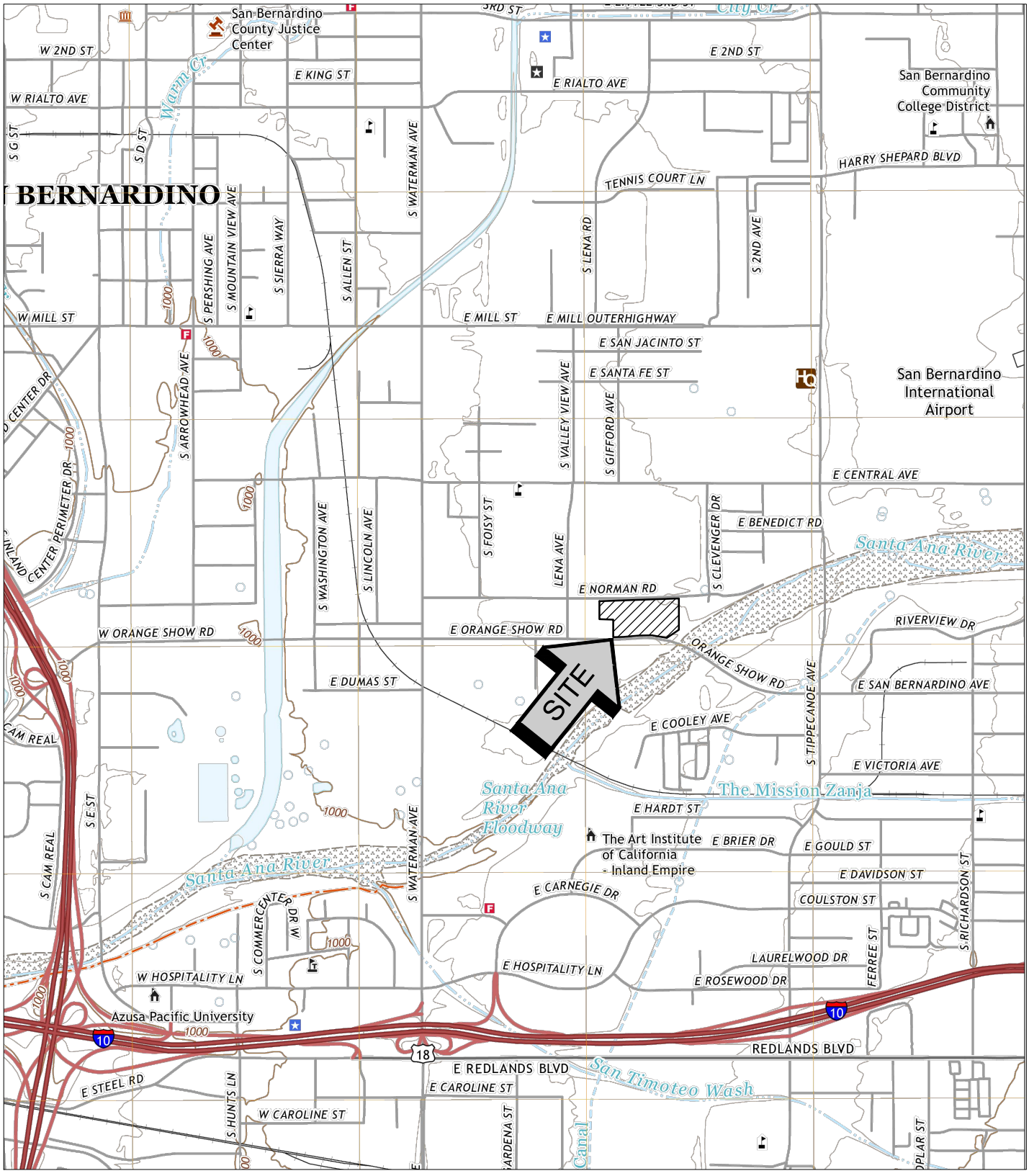
Jamie Hayward
Staff Geologist

Robert G. Trazo, GE 2655
Principal Engineer



Distribution: (1) Addressee

Enclosures: Plate 1 - Site Location Map
Plate 2 - Infiltration Test Location Plan
Boring Log Legend and Logs (4 pages)
Infiltration Test Results Spreadsheets (2 pages)
Grain Size Distribution Graphs (2 pages)



SOURCE: USGS TOPOGRAPHIC MAPS OF THE SOUTH SAN BERNARDINO QUADRANGLE, SAN BERNARDINO COUNTY, CALIFORNIA, 2021.

SITE LOCATION MAP

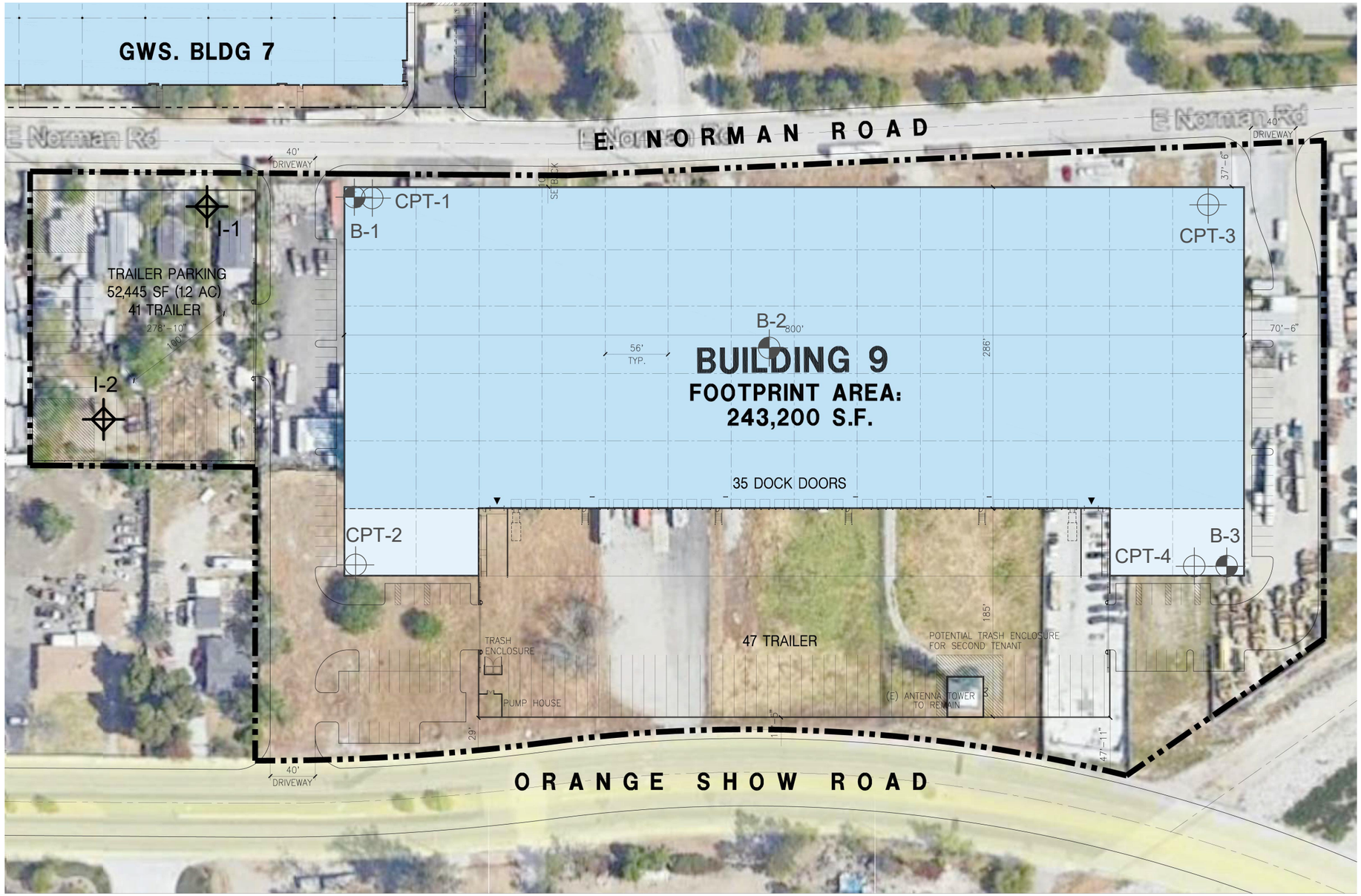
PROPOSED WAREHOUSE DEVELOPMENT

SAN BERNARDINO, CALIFORNIA

SCALE: 1" = 2000'	
DRAWN: JLL CHKD: RGT	
SCG PROJECT 22G179-2	
PLATE 1	

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH

SoCalGeo

GEOTECHNICAL LEGEND

- APPROXIMATE INFILTRATION TEST LOCATION
- APPROXIMATE BORING LOCATION (SCG PROJECT NO. 22G179-1)
- APPROXIMATE CPT LOCATION (SCG PROJECT NO. 22G179-1)

NOTE: CONCEPTUAL SITE PLAN PROVIDED BY HPA ARCHITECTURE.

INFILTRATION TEST LOCATION PLAN

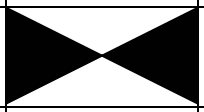
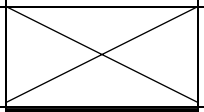
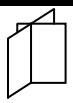
PROPOSED WAREHOUSE DEVELOPMENT

SAN BERNARDINO, CALIFORNIA

SCALE: 1" = 100'	
DRAWN: MD CHKD: RGT	
SCG PROJECT 22G179-2	
PLATE 2	

SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

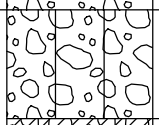
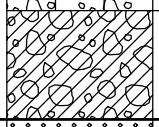
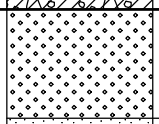
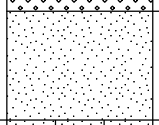
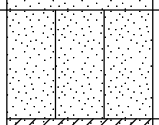
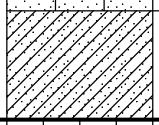
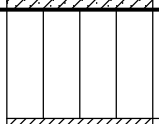
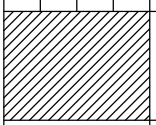
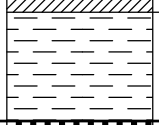
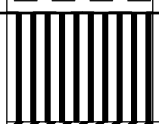
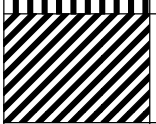
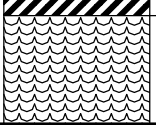
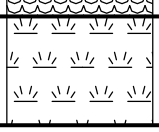
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO 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 (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% 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 OR 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 GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-1

JOB NO.: 22G179-2
PROJECT: Proposed Warehouse Development
LOCATION: San Bernardino, California

DRILLING DATE: 5/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Ryan Bremer

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					ALLUVIUM: Brown fine to coarse Sand, little fine to coarse Gravel, loose-damp							
		8					2					
5												
					Gray fine to medium Sand, loose-damp							
		8					2					
10												
		10			Gray fine to medium Sandy Gravel, trace Silt, little coarse Sand, medium dense-damp		4			5.7		
					Boring Terminated at 12'							

TBL 22G179-2.GPJ SOCALGEO.GDT 6/17/22

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-2

JOB NO.: 22G179-2
PROJECT: Proposed Warehouse Development
LOCATION: San Bernardino, California

DRILLING DATE: 5/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Ryan Bremer

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					ALLUVIUM: Gray Gravelly fine to coarse Sand, 2-inch fine Sandy Silt lens, very loose-moist							
		2					13					
5												
					Dark Brown fine to coarse Sand, little fine to coarse Gravel, medium dense-damp							
		13					3					
10												
		12			Gray Gravelly fine to coarse Sand, medium dense-dry		1			2.7		
					Boring Terminated at 12'							

TBL 22G179-2.GPJ SOCALGEO.GDT 6/17/22

TEST BORING LOG **PLATE B-2**

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse Development
Project Location	San Bernardino, California
Project Number	22G179-2
Engineer	Joey Hernandez

Test Hole Radius	4	(in)
Test Depth	12.05	(ft)

Infiltration Test Hole: I-1

Soil Criteria Test

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (in)	Did 6 inches of water seep away in less than 25 minutes?	Sandy Soils or Non-Sandy Soils?
1	Initial	11:20 AM	25.00	7.50	54.60	YES	SANDY SOILS
	Final	11:45 AM		12.05			
2	Initial	11:47 AM	25.00	7.50	54.60	YES	SANDY SOILS
	Final	12:12 PM		12.05			

Test Data

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	12:15 PM	10.00	8.00	3.80	2.15	19.68
	Final	12:25 PM		11.80			
2	Initial	12:30 PM	10.00	8.20	3.40	2.15	17.61
	Final	12:40 PM		11.60			
3	Initial	12:42 PM	10.00	7.50	3.90	2.60	16.92
	Final	12:52 PM		11.40			
4	Initial	12:55 PM	10.00	7.55	3.85	2.58	16.85
	Final	1:05 PM		11.40			
5	Initial	1:07 PM	10.00	7.53	3.86	2.59	16.80
	Final	1:17 PM		11.39			
6	Initial	1:20 PM	10.00	7.54	3.86	2.58	16.86
	Final	1:30 PM		11.40			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where:

- Q = Infiltration Rate (in inches per hour)
- ΔH = Change in Height (Water Level) over the time interval
- r = Test Hole (Borehole) Radius
- Δt = Time Interval
- H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse Development
Project Location	San Bernardino, California
Project Number	22G179-2
Engineer	Joey Hernandez

Test Hole Radius	4	(in)
Test Depth	12.20	(ft)

Infiltration Test Hole	I-2

Soil Criteria Test

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (in)	Did 6 inches of water seep away in less than 25 minutes?	Sandy Soils or Non-Sandy Soils?
1	Initial	9:48 AM	25.00	6.60	59.40	YES	SANDY SOILS
	Final	10:13 AM		11.55			
2	Initial	10:15 AM	25.00	7.00	55.20	YES	SANDY SOILS
	Final	10:40 AM		11.60			

Test Data

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	10:40 AM	10.00	6.80	4.70	3.05	17.53
	Final	10:50 AM		11.50			
2	Initial	10:55 AM	10.00	6.60	4.80	3.20	17.11
	Final	11:05 AM		11.40			
3	Initial	11:06 AM	10.00	6.60	4.60	3.30	15.92
	Final	11:16 AM		11.20			
4	Initial	11:16 AM	10.00	6.60	4.61	3.30	15.98
	Final	11:26 AM		11.21			
5	Initial	11:26 AM	10.00	6.60	4.58	3.31	15.81
	Final	11:36 AM		11.18			
6	Initial	11:36 AM	10.00	6.60	4.58	3.31	15.81
	Final	11:46 AM		11.18			

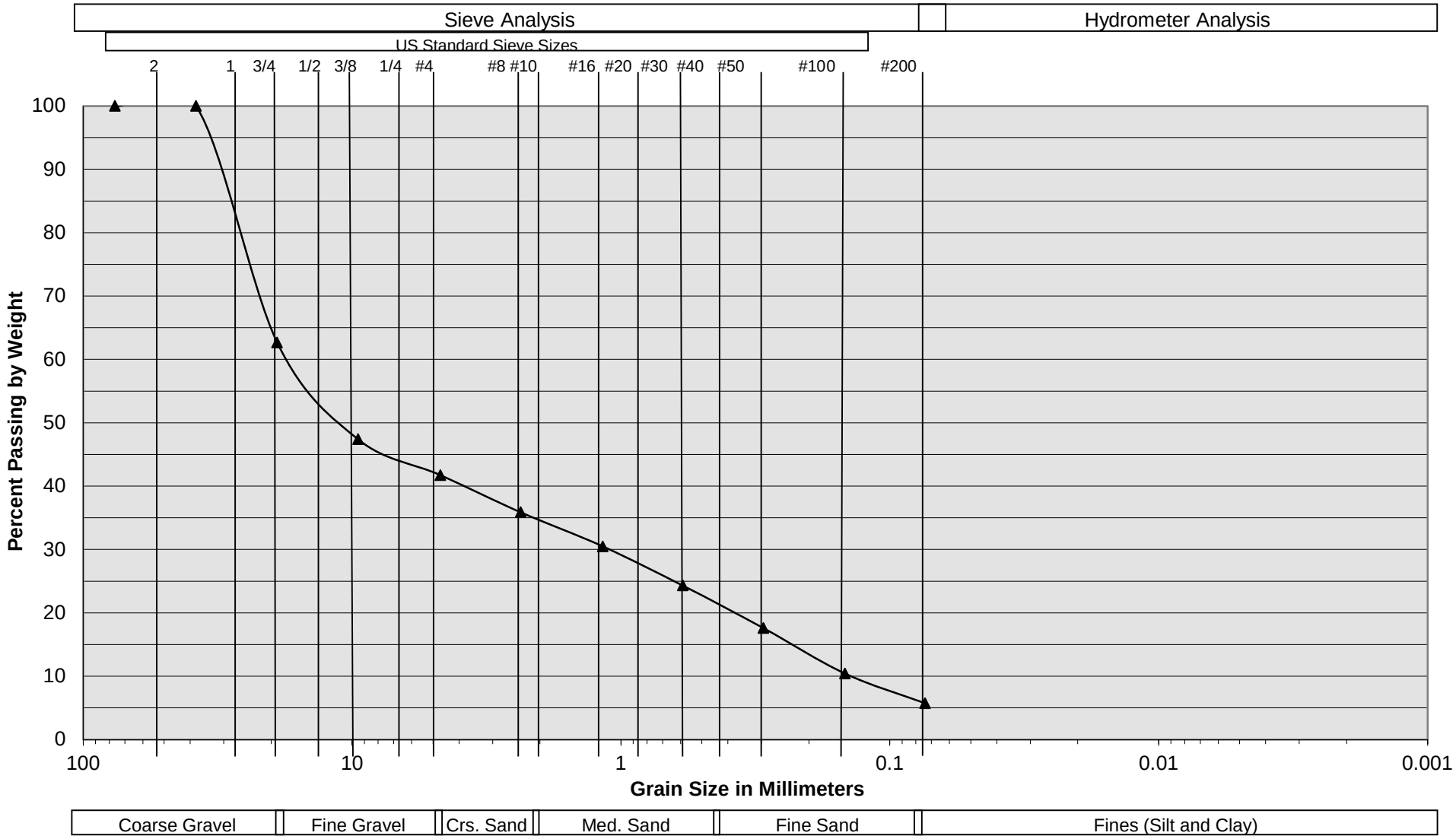
Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where:

- Q = Infiltration Rate (in inches per hour)
- ΔH = Change in Height (Water Level) over the time interval
- r = Test Hole (Borehole) Radius
- Δt = Time Interval
- H_{avg} = Average Head Height over the time interval

Grain Size Distribution

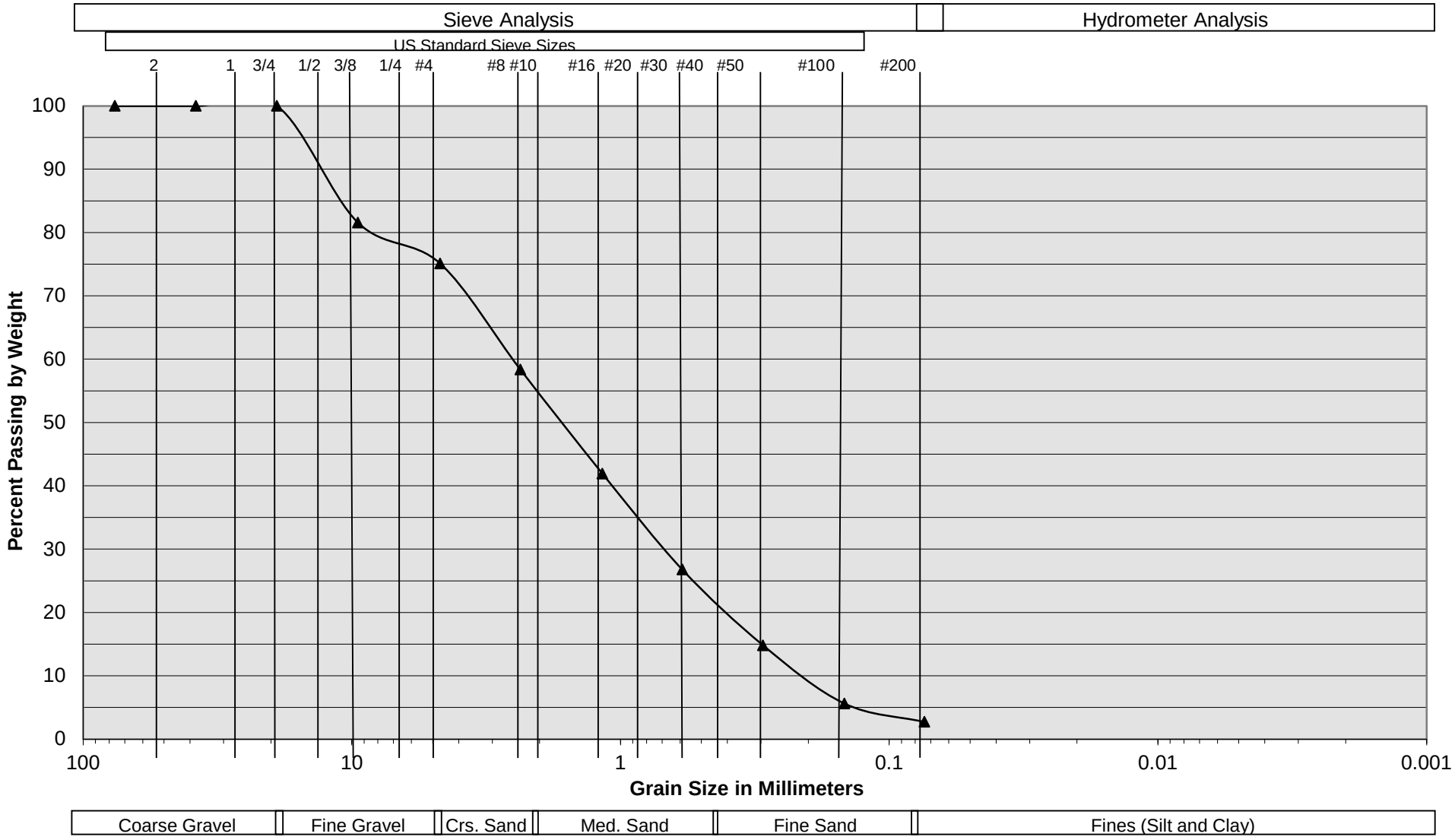


Sample Description	I-1 @ 10½ to 12 feet
Soil Classification	Fine to medium Sandy Gravel, trace Silt, little coarse Sand

Proposed Warehouse Development
Bloomington, California
Project No. 22G179-2
PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution



Sample Description	I-2 @ 10½ to 12 feet
Soil Classification	Gravelly fine to coarse Sand

Proposed Warehouse Development
Bloomington, California
Project No. 22G179-2
PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Attachment G
BMP O&M



SAMPLE STENCIL TO BE USED NEAR
GRATE AND CURB OPENING INLETS

Thienes Engineering
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

SAMPLE CATCH BASIN STENCIL
PER BMP SD-13

Hydra Connector Pipe Screen (CPS)
Operation & Maintenance (O&M)

Note

CPS devices should be maintained by individuals who are trained in proper disposal procedures, confined space entry and traffic safety regulations. When servicing a Hydra CPS device be sure to follow all safety and traffic control protocols as well as wearing all proper personal protection equipment such as gloves, safety glasses, hard-hat, safety vest and work boots.



Visual Inspection

1. Begin by inspecting the inflow of the catch basin where the Hydra CPS device is located. Check for any obstructions to inflow of the CB unit. If any large obstructions are found, have them removed. Once the inflow inspection is completed, remove the man-hole cover for further inspection. (Note: Confined Space Entry Procedures may apply if trained personnel intend to enter the interior space of any Catch Basin. Please follow all applicable confined space entry procedures)

2. Remove the manhole cover and visually estimate the amount and types of debris found in the CB unit. Look for any visual signs of damage that may compromise the CB unit to function properly. Inspect for any standing water in the CB unit as well as for large amounts of sediment and debris surrounding the CPS device. If standing water and high sediment volume is found, remove water, sediment and debris by vacuum truck or by other debris removal methods.

Cleaning Procedures and Frequencies

1. Like all other storm water BMP's, Hydra CPS devices require periodic maintenance.

Bio Clean
A Forterra Company

Routine inspection and maintenance intervals for all CPS devices are typically twice per year for inspections and once per year for maintenance service. Hydra CPS devices may require more frequent maintenance service if the device is located in a high debris loading drainage area, such as certain downtown areas, retail/restaurant, or residential areas where a significant amount of vegetation/foliage is located. In such cases, Modular CPS devices may require more frequent inspection and maintenance service, which could range from twice per year to monthly inspection and maintenance service, depending on pollutant load conditions.

2. To begin Hydra CPS cleaning procedures, conduct a visual inspection of the CPS device and the surrounding area to ensure a safe working environment. Setup appropriate barriers and signage as necessary to establish a work zone surrounding the catch basin. Once the work zone has been established, remove the manhole cover from the catch basin.

3. Once the manhole cover is removed from the basin the Modular CPS is ready for servicing. All debris can be removed by either a vacuum truck or manually removing sediment and debris by hand.

4. Hydra CPS devices shall be cleaned using a pressure washer as may be necessary if any materials are found to cause occlusion or clogging of the screen.

Disposal

1. All trash and debris removed from the Hydra CPS unit shall be disposed of in accordance with local, state and federal regulation.

2. Solid waste disposal can be coordinated with local landfills. Liquids may need to be disposed of by wastewater treatment plant, municipal vacuum truck decant facility or approved facility.

For maintenance services please contact Bio Clean at:

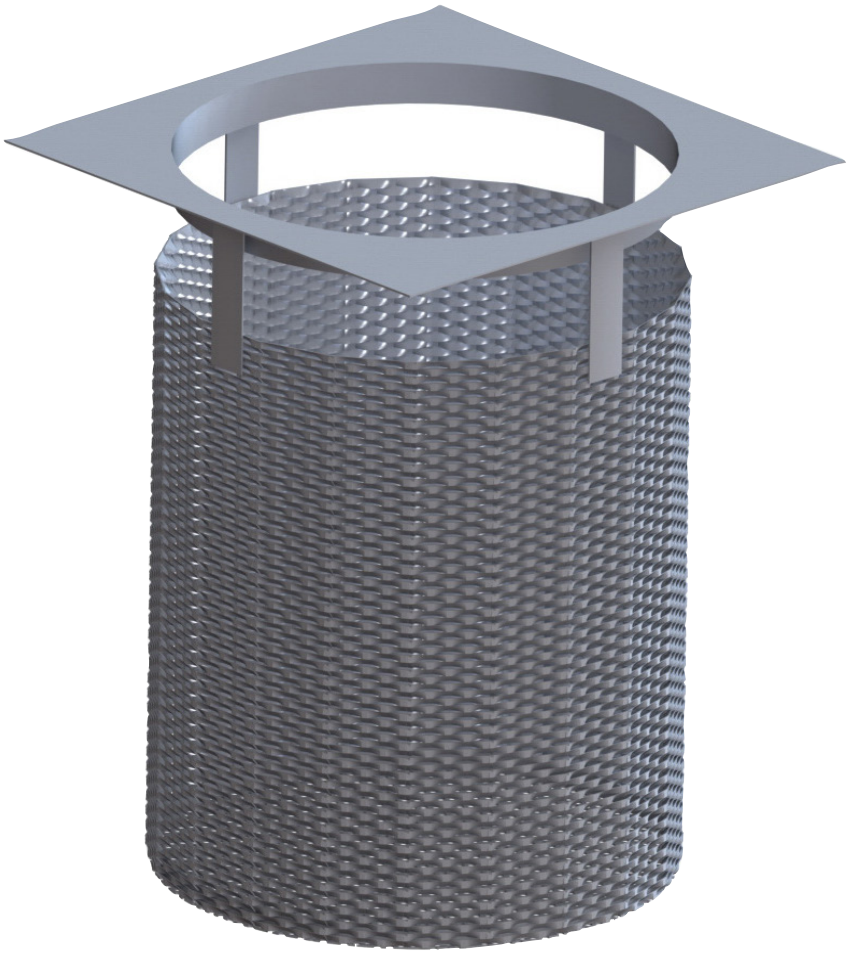
760-433-7640

info@biocleanenvironmental.com

Grate Inlet Filter

Bio Clean
A Forterra Company

OPERATION & MAINTENANCE



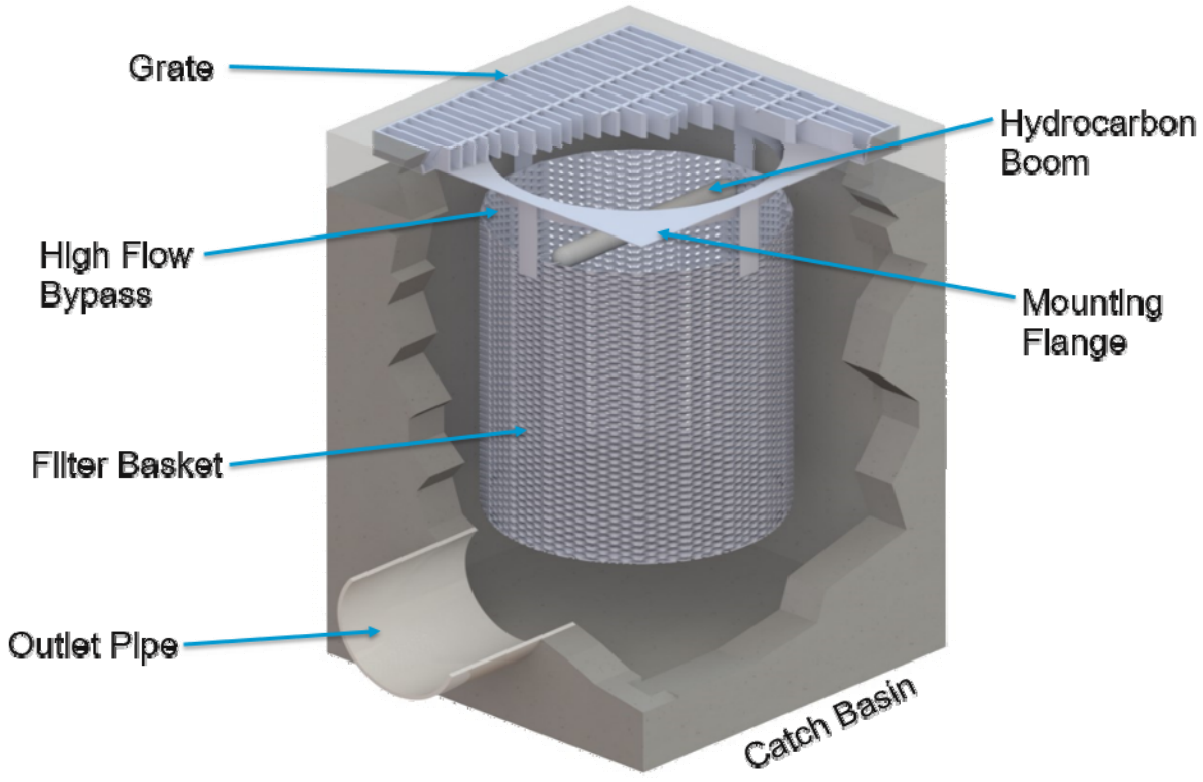
Bio Clean Environmental Services, Inc.
398 Via El Centro
Oceanside, CA 92058

www.BioCleanEnvironmental.com
p: 760.433.7640
f: 760.433.3176

OPERATION & MAINTENANCE

The Bio Clean Grate Inlet Filter is a stormwater device designed to remove high levels of trash, debris, sediments and hydrocarbons. The filter is available in several configurations including trash full capture, multi-level screening, Kraken membrane filter and media filter variations. This manual covers maintenance procedures of the trash full capture and multi-level screening configurations. A supplemental manual is available for the Kraken and media filter variations. This filter is made of 100% stainless steel and is available and various sizes and depths allowing it to fit in any grated catch basin inlet. The filters heavy duty construction allows for cleaning with any vacuum truck. The filet can also easily be cleaned by hand.

As with all stormwater BMPs, inspection and maintenance on the Grate Inlet Filter is necessary. Stormwater regulations require BMPs be inspected and maintained to ensure they are operating as designed to allow for effective pollutant removal and provide protection to receiving water bodies. It is recommended that inspections be performed multiple times during the first year to assess site-specific loading conditions. This is recommended because pollutant loading can vary greatly from site to site. Variables such as nearby soil erosion or construction sites, winter sanding of roads, amount of daily traffic and land use can increase pollutant loading on the system. The first year of inspections can be used to set inspection and maintenance intervals for subsequent years. Without appropriate maintenance a BMP can exceed its storage capacity which can negatively affect its continued performance in removing and retaining captured pollutants.



System Diagram:

Inspection Equipment

Following is a list of equipment to allow for simple and effective inspection of the Grate Inlet Filter:

- Bio Clean Environmental Inspection Form (contained within this manual).
- Manhole hook or appropriate tools to remove access hatches and covers.
- Appropriate traffic control signage and procedures.
- Protective clothing and eye protection.
- Note: entering a confined space requires appropriate safety and certification. It is generally not required for routine inspections or maintenance of the system.



Inspection Steps

The core to any successful stormwater BMP maintenance program is routine inspections. The inspection steps required on the Grate Inlet Filter are quick and easy. As mentioned above the first year should be seen as the maintenance interval establishment phase. During the first year more frequent inspections should occur in order to gather loading data and maintenance requirements for that specific site. This information can be used to establish a base for long-term inspection and maintenance interval requirements.

The Grate Inlet Filter can be inspected though visual observation. All necessary pre-inspection steps must be carried out before inspection occurs, such as safety measures to protect the inspector and nearby pedestrians from any dangers associated with an open grated inlet. Once the grate has been safely removed the inspection process can proceed:

- Prepare the inspection form by writing in the necessary information including project name, location, date & time, unit number and other info (see inspection form).
- Observe the filter with the grate removed.
- Look for any out of the ordinary obstructions on the grate or in the filter and its bypass. Write down any observations on the inspection form.
- Through observation and/or digital photographs estimate the amount of trash, foliage and sediment accumulated inside the filter basket. Record this information on the inspection form.
- Observe the condition and color of the hydrocarbon boom. Record this information on the inspection form.
- Finalize inspection report for analysis by the maintenance manager to determine if maintenance is required.

Maintenance Indicators

Based upon observations made during inspection, maintenance of the system may be required based on the following indicators:

- Missing or damaged internal components.
- Obstructions in the filter basket and its bypass.
- Excessive accumulation of trash, foliage and sediment in the filter basket. Maintenance is required when the basket is greater than half-full.
- The following chart shows the 50% and 100% storage capacity of each filter height:

Model	Filter Basket Diameter (in)	Filter Basket Height (in)	50% Storage Capacity (cu ft)	100% Storage Capacity (cu ft)
BC-GRATE-12-12-12	10.00	12.00	0.27	0.55
BC-GRATE-18-18-18	16.00	18.00	1.05	2.09
BC-GRATE-24-24-24	21.00	24.00	2.41	4.81
BC-GRATE-30-30-24	27.00	24.00	3.98	7.95
BC-GRATE-36-36-24	33.00	24.00	5.94	11.88
BC-GRATE-48-48-18	44.00	18.00	7.92	15.84

Maintenance Equipment

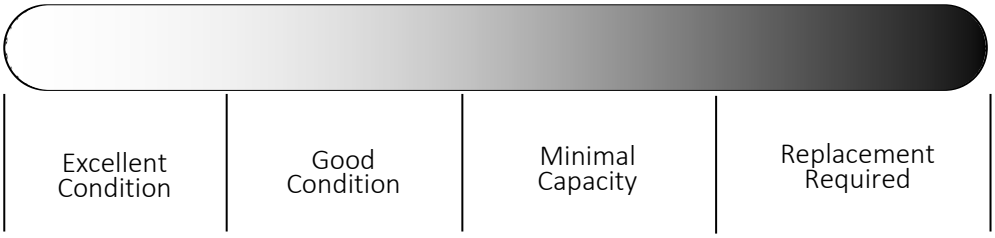
It is recommended that a vacuum truck be utilized to minimize the time required to maintain the Curb Inlet Filter, though it can easily cleaned by hand:

- Bio Clean Environmental Maintenance Form (contained in O&M Manual).
- Manhole hook or appropriate tools to remove the grate.
- Appropriate safety signage and procedures.
- Protective clothing and eye protection.
- Note: entering a confined space requires appropriate safety and certification. It is generally not required for routine maintenance of the system. Small or large vacuum truck (with pressure washer attachment preferred).

Maintenance Procedures

It is recommended that maintenance occurs at least two days after the most recent rain event to allow debris and sediments to dry out. Maintaining the system while flows are still entering it will increase the time and complexity required for maintenance. Cleaning of the Grate Inlet Filter can be performed utilizing a vacuum truck. Once all safety measures have been set up cleaning of the Grate Inlet Filter can proceed as followed:

- Remove grate (traffic control and safety measures to be completed prior).
- Using an extension on a vacuum truck position the hose over the opened catch basin. Insert the vacuum hose down into the filter basket and suck out trash, foliage and sediment. A pressure wash is recommended and will assist in spraying of any debris stuck on the side or bottom of the filter basket. Power wash off the filter basket sides and bottom.
- Next remove the hydrocarbon boom that is attached to the inside of the filter basket. The hydrocarbon boom is fastened to rails on two opposite sides of the basket (vertical rails). Assess the color and condition of the boom using the following information in the next bullet point. If replacement is required install and fasten on a new hydrocarbon boom. Booms can be ordered directly from the manufacturer.
- Follow is a replacement indication color chart for the hydrocarbon booms:



- The last step is to replace the grate and remove all traffic control.
- All removed debris and pollutants shall be disposed of following local and state requirements.
- Disposal requirements for recovered pollutants may vary depending on local guidelines. In most areas the sediment, once dewatered, can be disposed of in a sanitary landfill. It is not anticipated that the sediment would be classified as hazardous waste.
- In the case of damaged components, replacement parts can be ordered from the manufacturer. Hydrocarbon booms can also be ordered directly from the manufacturer as previously noted.

Maintenance Sequence

Remove grate and set up vacuum truck to clean the filter basket.



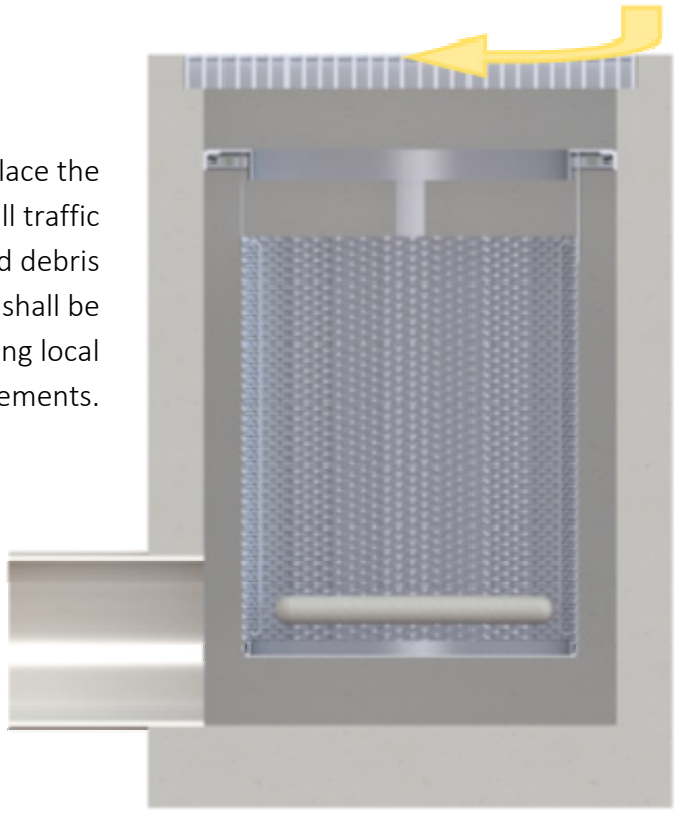


Insert the vacuum hose down into the filter basket and suck out debris. Use a pressure washer to assist in vacuum removal. Pressure wash off screens.



Remove the hydrocarbon boom that is attached to the inside of the filter basket. The hydrocarbon boom is fastened to rails on two opposite sides of the basket (vertical rails). Assess the color and condition of the boom using the following information in the next bullet point. If replacement is required install and fasten on a new hydrocarbon boom.

Close up and replace the grate and remove all traffic control. All removed debris and pollutants shall be disposed of following local and state requirements.



For Maintenance Services or Information Please Contact Us At:
760-433-7640
Or Email:
info@biocleanenvironmental.com

Bio Clean
A Forterra Company

Inspection and Maintenance Report
Catch Basin Only

Project Name _____

Project Address _____ (city) (Zip Code)

Owner / Management Company _____

Contact _____ Phone ( ) –

Inspector Name _____ Date ____/____/____ Time _____ AM / PM

Type of Inspection ☐ Routine ☐ollow Up ☐omplaint ☐torm Storm Event in Last 72-hours? ☐ ☐s

Weather Condition _____ Additional Notes _____

For Office Use Only
(Reviewed By)
(Date)
Office personnel to complete section to the left.

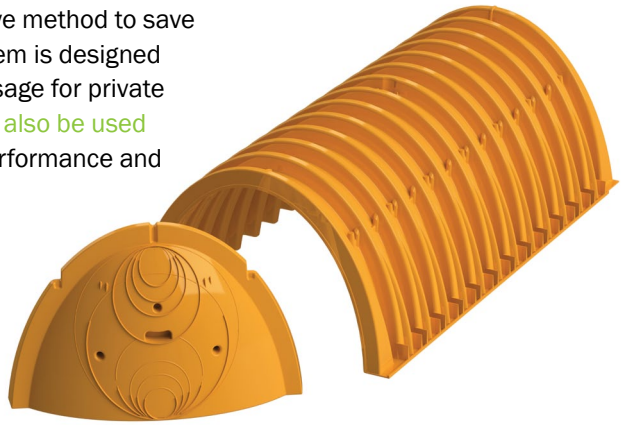
Site Map #	GPS Coordinates of Insert	Catch Basin Size	Evidence of Illicit Discharge?	Trash Accumulation	Foliage Accumulation	Sediment Accumulation	Signs of Structural Damage?	Functioning Properly or Maintenance Needed?
1	Lat: Long:							
2	Lat: Long:							
3	Lat: Long:							
4	Lat: Long:							
5	Lat: Long:							
6	Lat: Long:							
7	Lat: Long:							
8	Lat: Long:							
10	Lat: Long:							
11	Lat: Long:							
12	Lat: Long:							

Comments:

398 Via El Centro, Oceanside, CA 92058 P. 760.433.7640 F. 760.433.3176

StormTech DC-780 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.



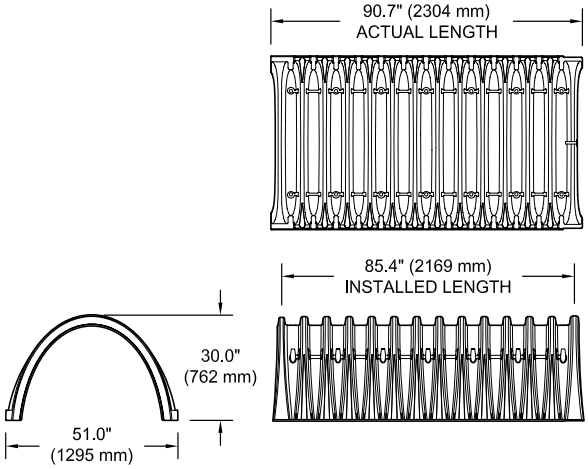
- 12’ (3.6 m) Deep Cover Applications
- Designed in accordance with ASTM F2787 and produced to meet the ASTM 2418 product standard.
- AASHTO safety factors provided for AASHTO Design Truck (H20 and deep cover conditions.)

StormTech DC-780 Chamber (not to scale)

Nominal Chamber Specifications

Size (Lx W x H)	85.4” x 51.0” x 30.0” (2169 x 1295 x 762 mm)
Chamber Storage	46.2 ft³ (1.30 m³)
Min. Installed Storage*	78.4 ft³ (2.2 m³)

*Assumes 9” (230 mm) stone below, 6” (150 mm) stone above, 6” (150 mm) row spacing and 40% stone porosity.

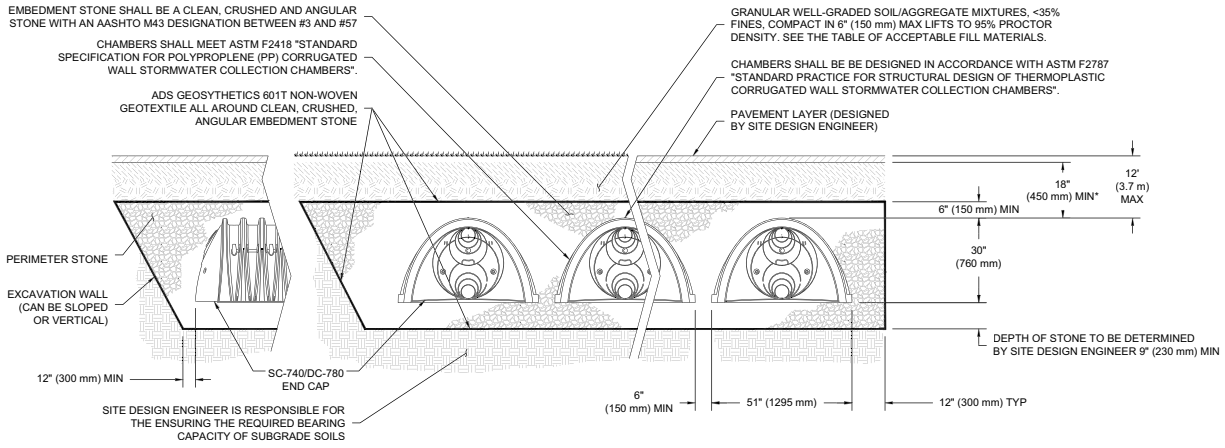


Shipping

24 chambers/pallet

60 end caps/pallet

12 pallets/truck



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

DC-780 Cumulative Storage Volumes Per Chamber

Assumes 40% Stone Porosity. Calculations are Based Upon a 9" (230 mm) Stone Base Under Chambers.

Depth of Water in System Inches (mm)	Cumulative Chamber Storage ft³ (m³)	Total System Cumulative Storage ft³ (m³)
45 (1,143)	46.27 (1.310)	78.47 (2.222)
44 (1,118)	46.27 (1.310)	77.34 (2.190)
43 (1,092)	46.27 (1.310)	76.21 (2.158)
42 (1,067)	46.27 (1.310)	75.09 (2.126)
41 (1,041)	46.27 (1.310)	73.96 (2.094)
40 (1,016)	46.27 (1.310)	72.83 (2.062)
39 (991)	46.27 (1.310)	71.71 (2.030)
38 (965)	46.21 (1.309)	70.54 (1.998)
37 (940)	46.04 (1.304)	69.32 (1.963)
36 (914)	45.76 (1.296)	68.02 (1.926)
35 (889)	45.15 (1.278)	66.53 (1.884)
34 (864)	44.34 (1.255)	64.91 (1.838)
33 (838)	43.38 (1.228)	63.21 (1.790)
32 (813)	42.29 (1.198)	61.43 (1.740)
31 (787)	41.11 (1.164)	59.59 (1.688)
30 (762)	39.83 (1.128)	57.70 (1.634)
29 (737)	38.47 (1.089)	55.76 (1.579)
28 (711)	37.01 (1.048)	53.76 (1.522)
27 (686)	35.49 (1.005)	51.72 (1.464)
26 (660)	33.90 (0.960)	49.63 (1.405)
25 (635)	32.24 (0.913)	47.52 (1.346)
24 (610)	30.54 (0.865)	45.36 (1.285)
23 (584)	28.77 (0.815)	43.18 (1.223)
22 (559)	26.96 (0.763)	40.97 (1.160)
21 (533)	25.10 (0.711)	38.72 (1.096)
20 (508)	23.19 (0.657)	36.45 (1.032)
19 (483)	21.25 (0.602)	34.16 (0.967)
18 (457)	19.26 (0.545)	31.84 (0.902)
17 (432)	17.24 (0.488)	29.50 (0.835)
16 (406)	15.19 (0.430)	27.14 (0.769)
15 (381)	13.10 (0.371)	24.76 (0.701)
14 (356)	10.98 (0.311)	22.36 (0.633)
13 (330)	8.83 (0.250)	19.95 (0.565)
12 (305)	6.66 (0.189)	17.52 (0.496)
11 (279)	4.46 (0.126)	15.07 (0.427)
10 (254)	2.24 (0.064)	12.61 (0.357)

Stone Cover

Depth of Water in System Inches (mm)	Cumulative Chamber Storage ft³ (m³)	Total System Cumulative Storage ft³ (m³)
9 (229)	0 (0)	10.14 (0.287)
8 (203)	0 (0)	9.01 (0.255)
7 (178)	0 (0)	7.89 (0.223)
6 (152)	0 (0)	6.76 (0.191)
5 (127)	0 (0)	5.63 (0.160)
4 (102)	0 (0)	4.51 (0.128)
3 (76)	0 (0)	3.38 (0.096)
2 (51)	0 (0)	2.25 (0.064)
1 (25)	0 (0)	1.13 (0.032)

Stone Foundation

Note: Add 1.13 ft³ (0.032 m³) of Storage for Each Additional Inch (25 mm) of Stone Foundation.

Storage Volume Per Chamber ft³ (m³)

	Bare Chamber Storage ft³ (m³)	Chamber and Stone Foundation Depth in. (mm)		
		9" (230 mm)	12" (300 mm)	18" (450 mm)
DC-780 Chamber	78.4 (2.2)	78.4 (2.2)	81.8 (2.3)	88.6 (2.5)

Note: Assumes 40% porosity for the stone, the bare chamber volume, 6" (150 mm) of stone above, and 6" (150 mm) row spacing.

Amount of Stone Per Chamber

ENGLISH TONS (yds³)	Stone Foundation Depth		
	9"	12"	18"
DC-780 Chamber	4.2 (3.0)	4.7 (3.3)	5.6 (3.9)
METRIC KILOGRAMS (m³)	**230 mm**	**300 mm**	**450 mm**
DC-780 Chamber	3,810 (2.3)	4,264 (2.5)	5,080 (3.0)

Note: Assumes 9" (150 mm) of stone above, and between chambers.

Volume Excavation Per Chamber yd³ (m³)

	Stone Foundation Depth		
	9" (230 mm)	12" (300 mm)	18" (450 mm)
DC-780 Chamber	5.9 (4.5)	6.3 (4.8)	6.9 (5.3)

Note: Assumes 6" (150 mm) separation between chamber rows and 18" (450 mm) of cover. The volume of excavation will vary as depth of cover increases.



StormTech
Detention • Retention • Water Quality
An ADS company

Isolator® Row O&M Manual







THE MOST ADVANCED NAME IN WATER MANAGEMENT SOLUTIONS™

ADS®

THE ISOLATOR® ROW

INTRODUCTION

An important component of any Stormwater Pollution Prevention Plan is inspection and maintenance. The StormTech Isolator Row is a technique to inexpensively enhance Total Suspended Solids (TSS) removal and provide easy access for inspection and maintenance.

THE ISOLATOR ROW

The Isolator Row is a row of StormTech chambers, either SC-160LP, SC-310, SC-310-3, SC-740, DC-780, MC-3500 or MC-4500 models, that is surrounded with filter fabric and connected to a closely located manhole for easy access. The fabric-wrapped chambers provide for settling and filtration of sediment as storm water rises in the Isolator Row and ultimately passes through the filter fabric. The open bottom chambers and perforated sidewalls (SC-310, SC- 310-3 and SC-740 models) allow storm water to flow both vertically and horizontally out of the chambers. Sediments are captured in the Isolator Row protecting the storage areas of the adjacent stone and chambers from sediment accumulation.

Two different fabrics are used for the Isolator Row. A woven geotextile fabric is placed between the stone and the Isolator Row chambers. The tough geotextile provides a media for storm water filtration and provides a durable surface for maintenance operations. It is also designed to prevent scour of the underlying stone and remain intact during high pressure jetting. A non-woven fabric is placed over the chambers to provide a filter media for flows passing through the perforations in the sidewall of the chamber. The non-woven fabric is not required over the SC-160LP, DC-780, MC-3500 or MC-4500 models as these chambers do not have perforated side walls.

The Isolator Row is typically designed to capture the “first flush” and offers the versatility to be sized on a volume basis or flow rate basis. An upstream manhole not only provides access to the Isolator Row but typically includes a high flow weir such that storm water flowrates or volumes that exceed the capacity of the Isolator Row overtop the over flow weir and discharge through a manifold to the other chambers.

The Isolator Row may also be part of a treatment train. By treating storm water prior to entry into the chamber system, the service life can be extended and pollutants such as hydrocarbons can be captured. Pre-treatment best management practices can be as simple as deep sump catch basins, oil-water separators or can be innovative storm water treatment devices. The design of the treatment train and selection of pretreatment devices by the design engineer is often driven by regulatory requirements. Whether pretreatment is used or not, the Isolator Row is recommended by StormTech as an effective means to minimize maintenance requirements and maintenance costs.

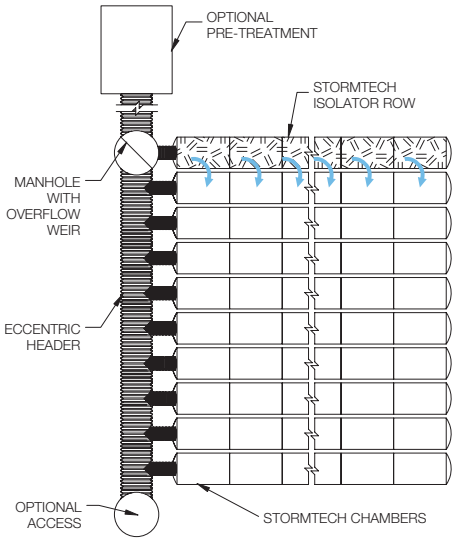
Note: See the StormTech Design Manual for detailed information on designing inlets for a StormTech system, including the Isolator Row.



Looking down the Isolator Row from the manhole opening, woven geotextile is shown between the chamber and stone base.



StormTech Isolator Row with Overflow Spillway (not to scale)





ISOLATOR ROW INSPECTION/MAINTENANCE

INSPECTION

The frequency of inspection and maintenance varies by location. A routine inspection schedule needs to be established for each individual location based upon site specific variables. The type of land use (i.e. industrial, commercial, residential), anticipated pollutant load, percent imperviousness, climate, etc. all play a critical role in determining the actual frequency of inspection and maintenance practices.

At a minimum, StormTech recommends annual inspections. Initially, the Isolator Row should be inspected every 6 months for the first year of operation. For subsequent years, the inspection should be adjusted based upon previous observation of sediment deposition.

The Isolator Row incorporates a combination of standard manhole(s) and strategically located inspection ports (as needed). The inspection ports allow for easy access to the system from the surface, eliminating the need to perform a confined space entry for inspection purposes.

If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of sediment. When the average depth of sediment exceeds 3 inches throughout the length of the Isolator Row, clean-out should be performed.

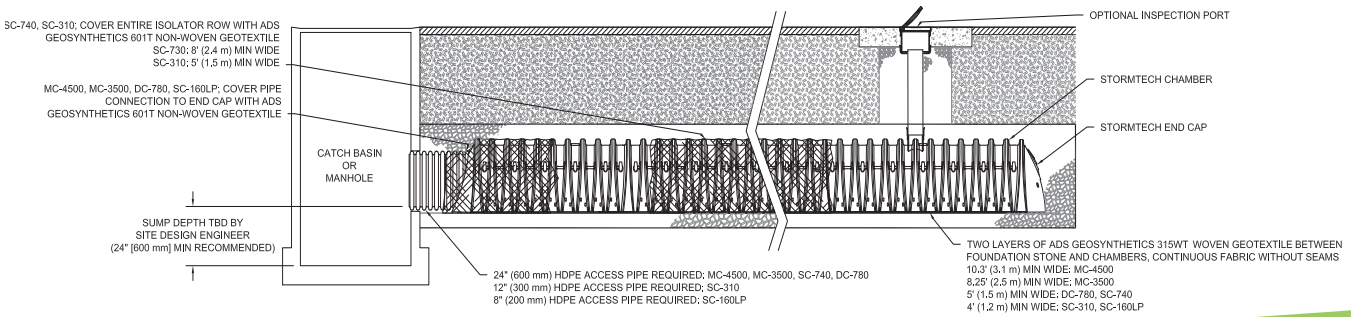
MAINTENANCE

The Isolator Row was designed to reduce the cost of periodic maintenance. By "isolating" sediments to just one row, costs are dramatically reduced by eliminating the need to clean out each row of the entire storage bed. If inspection indicates the potential need for maintenance, access is provided via a manhole(s) located on the end(s) of the row for cleanout. If entry into the manhole is required, please follow local and OSHA rules for a confined space entries.

Maintenance is accomplished with the JetVac process. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator Row while scouring and suspending sediments. As the nozzle is retrieved, the captured pollutants are flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Selection of an appropriate JetVac nozzle will improve maintenance efficiency. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear facing jets with an effective spread of at least 45" are best. Most JetVac reels have 400 feet of hose allowing maintenance of an Isolator Row up to 50 chambers long. **The JetVac process shall only be performed on StormTech Isolator Rows that have AASHTO class 1 woven geotextile (as specified by StormTech) over their angular base stone.**

StormTech Isolator Row (not to scale)

Note: Non-woven fabric is only required over the inlet pipe connection into the end cap for SC-160LP, DC-780, MC-3500 and MC-4500 chamber models and is not required over the entire Isolator Row.



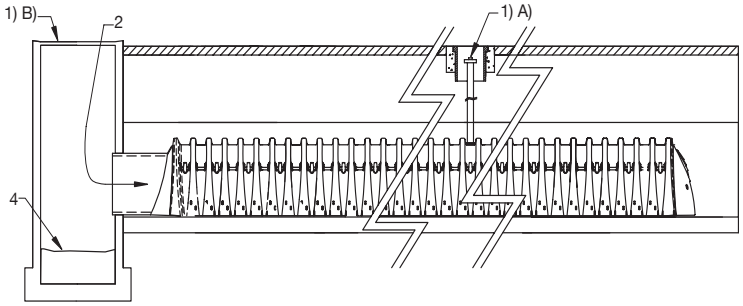
ISOLATOR ROW STEP BY STEP MAINTENANCE PROCEDURES

STEP 1
Inspect Isolator Row for sediment.
- A) Inspection ports (if present)
  - i. Remove lid from floor box frame
  - ii. Remove cap from inspection riser
  - iii. Using a flashlight and stadia rod,measure depth of sediment and record results on maintenance log.
  - iv. If sediment is at or above 3 inch depth, proceed to Step 2. If not, proceed to Step 3.
- B) All Isolator Rows
  - i. Remove cover from manhole at upstream end of Isolator Row
  - ii. Using a flashlight, inspect down Isolator Row through outlet pipe
    1. Mirrors on poles or cameras may be used to avoid a confined space entry
    2. Follow OSHA regulations for confined space entry if entering manhole
  - iii. If sediment is at or above the lower row of sidewall holes (approximately 3 inches), proceed to Step 2. If not, proceed to Step 3.

STEP 2
Clean out Isolator Row using the JetVac process.
- A) A fixed floor cleaning nozzle with rear facing nozzle spread of 45 inches or more is preferable
- B) Apply multiple passes of JetVac until backflush water is clean
- C) Vacuum manhole sump as required

STEP 3
Replace all caps, lids and covers, record observations and actions.

STEP 4
Inspect & clean catch basins and manholes upstream of the StormTech system.



SAMPLE MAINTENANCE LOG

Date	Stadia Rod Readings		Sediment Depth (1)–(2)	Observations/Actions	Inspector
	Fixed point to chamber bottom (1)	Fixed point to top of sediment (2)			
3/15/11	6.3 ft	none		New installation. Fixed point is CI frame at grade	DJM
9/24/11		6.2	0.1 ft	Some grit felt	SM
6/20/13		5.8	0.5 ft	Mucky feel, debris visible in manhole and in Isolator Row, maintenance due	NV
7/7/13	6.3 ft		0	System jetted and vacuumed	DJM

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Stormtech® and the Isolator® Row are registered trademarks of StormTech, Inc.
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StormTech® Detention • Retention • Water Quality
A division of ADS

Advanced Drainage Systems, Inc.
4640 Trueman Blvd., Hilliard, OH 43026
1-800-821-6710 www.ads-pipe.com

Appendix J:

Noise and Vibrational Analysis

Gateway South 9 Warehouse

NOISE AND VIBRATION ANALYSIS

CITY OF SAN BERNARDINO

PREPARED BY:

Bill Lawson, PE, INCE
blawson@urbanxroads.com
(949) 584-3148

DECEMBER 12, 2022

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LIST OF ABBREVIATED TERMS

(1)	Reference
ADT	Average Daily Traffic
ANSI	American National Standards Institute
Calveno	California Vehicle Noise
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dBA	A-weighted decibels
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
Hz	Hertz
INCE	Institute of Noise Control Engineering
L_{eq}	Equivalent continuous (average) sound level
L_{max}	Maximum level measured over the time interval
L_{min}	Minimum level measured over the time interval
mph	Miles per hour
OPR	Office of Planning and Research
PPV	Peak Particle Velocity
Project	Gateway South 9 Warehouse
REMEL	Reference Energy Mean Emission Level
RMS	Root-mean-square
VdB	Vibration Decibels

EXECUTIVE SUMMARY

Urban Crossroads, Inc. has prepared this noise study to determine the potential noise impacts and the necessary noise mitigation measures, if any, for the proposed Gateway South 9 Warehouse development ("Project"). The proposed Project includes the development of a 397,400 square foot (sf) high-cube transload and short-term warehouse building. This study has been prepared to satisfy applicable City of San Bernardino noise standards and significance criteria based on Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1).

The results of this Gateway South 9 Warehouse Noise and Vibration Analysis are summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1) Table ES-1 shows the findings of significance for each potential noise and/or vibration impact under CEQA before and after any required mitigation measures.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Off-Site Traffic Noise	7	*Less Than Significant*	-
Operational Noise	9	*Less Than Significant*	-
Construction Noise	10	*Less Than Significant*	-
Nighttime Concrete Pour Noise		*Less Than Significant*	-
Construction Vibration		*Less Than Significant*	-

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1 INTRODUCTION

This noise analysis has been completed to determine the noise impacts associated with the development of the proposed Gateway South 9 Warehouse ("Project"). This noise study briefly describes the proposed Project, provides information regarding noise fundamentals, sets out the local regulatory setting, presents the study methods and procedures for transportation related CNEL traffic noise analysis, and evaluates the future exterior noise environment. In addition, this study includes an analysis of the potential Project-related long-term stationary-source operational noise and short-term construction noise and vibration impacts.

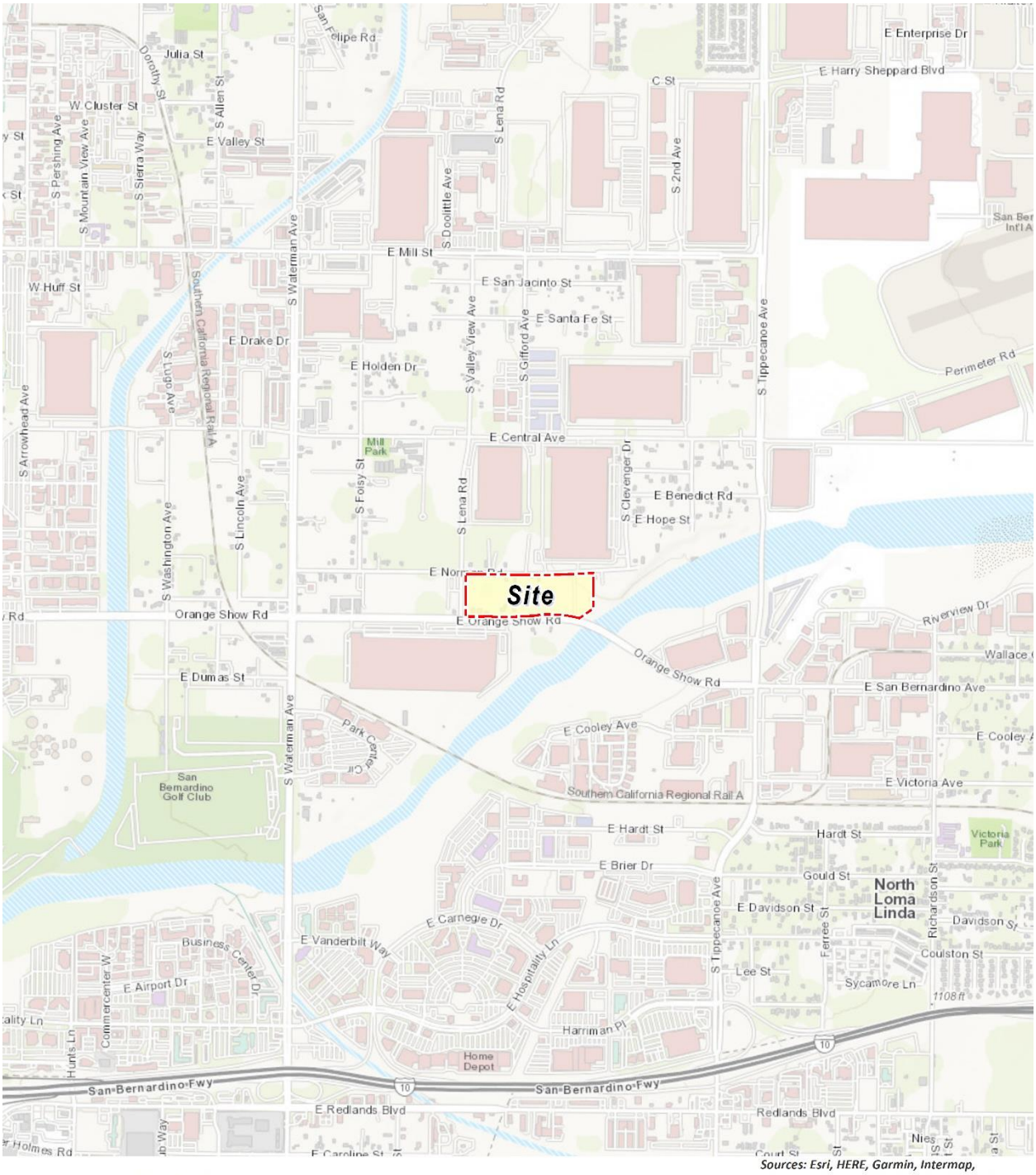
1.1 SITE LOCATION

The proposed Project is located at the southeast corner of Lena Road and Norman Road in the City of San Bernardino, as shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

The proposed Project includes the development of a 397,400 square foot (sf) high-cube transload and short-term warehouse building, as shown on Exhibit 1-B. The anticipated Project opening year is 2024. The on-site Project-related noise sources are expected to include: loading dock activity, roof-top air conditioning units, trash enclosure activity, parking lot vehicle movements, and truck movements. This noise analysis is intended to describe the noise level impacts associated with the expected typical operational activities at the Project site.

EXHIBIT 1-A: LOCATION MAP

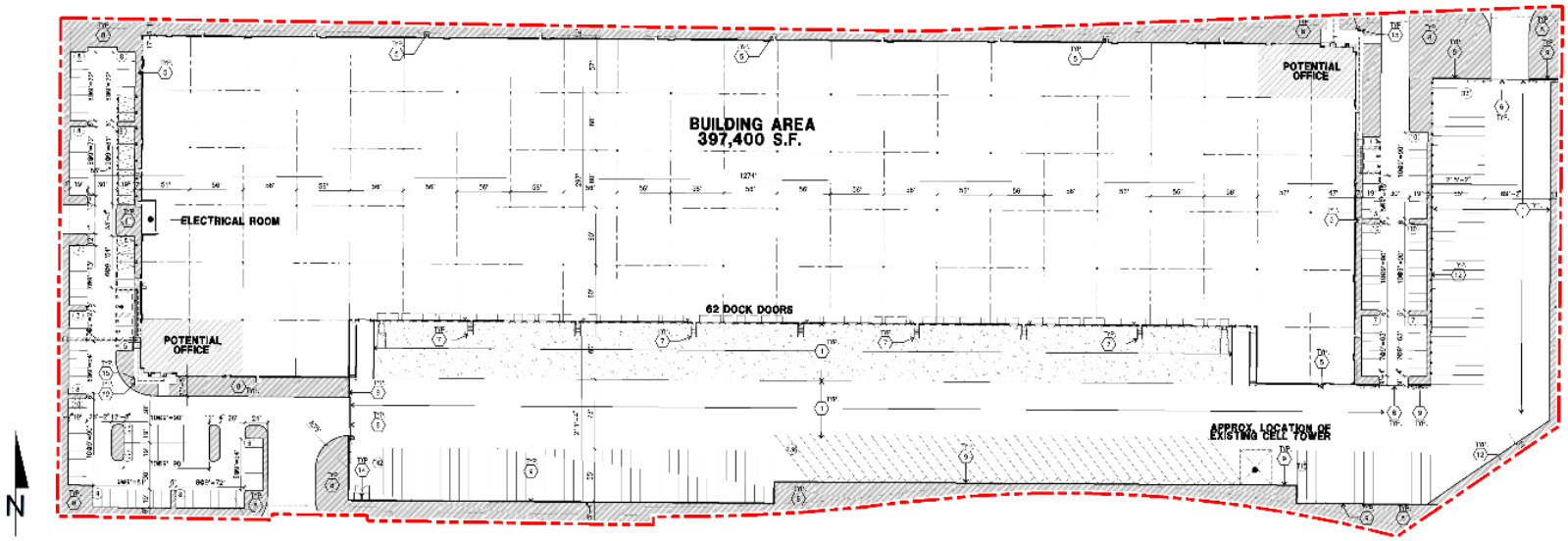


LEGEND:

Site Boundary

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS

EXHIBIT 1-B: SITE PLAN



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2 FUNDAMENTALS

Noise is simply defined as "unwanted sound." Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). A-weighted decibels (dBA) approximate the subjective response of the human ear to broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies which are audible to the human ear. Exhibit 2-A presents a summary of the typical noise levels and their subjective loudness and effects that are described in more detail below.

EXHIBIT 2-A: TYPICAL NOISE LEVELS

COMMON OUTDOOR ACTIVITIES	COMMON INDOOR ACTIVITIES	A - WEIGHTED SOUND LEVEL dBA	SUBJECTIVE LOUDNESS	EFFECTS OF NOISE
THRESHOLD OF PAIN		140	INTOLERABLE OR DEAFENING	HEARING LOSS
NEAR JET ENGINE		130		
		120		
JET FLY-OVER AT 300m (1000 ft)	ROCK BAND	110		
LOUD AUTO HORN		100	VERY NOISY	
GAS LAWN MOWER AT 1m (3 ft)		90		
DIESEL TRUCK AT 15m (50 ft), at 80 km/hr (50 mph)	FOOD BLENDER AT 1m (3 ft)	80		SPEECH INTERFERENCE
NOISY URBAN AREA, DAYTIME	VACUUM CLEANER AT 3m (10 ft)	70	LOUD	
HEAVY TRAFFIC AT 90m (300 ft)	NORMAL SPEECH AT 1m (3 ft)	60		
QUIET URBAN DAYTIME	LARGE BUSINESS OFFICE	50	MODERATE	SLEEP DISTURBANCE
QUIET URBAN NIGHTTIME	THEATER, LARGE CONFERENCE ROOM (BACKGROUND)	40		
QUIET SUBURBAN NIGHTTIME	LIBRARY	30	FAINT	NO EFFECT
QUIET RURAL NIGHTTIME	BEDROOM AT NIGHT, CONCERT HALL (BACKGROUND)	20		
	BROADCAST/RECORDING STUDIO	10	VERY FAINT	
LOWEST THRESHOLD OF HUMAN HEARING	LOWEST THRESHOLD OF HUMAN HEARING	0		

Source: Environmental Protection Agency Office of Noise Abatement and Control, Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (EPA/ONAC 550/9-74-004) March 1974.

2.1 RANGE OF NOISE

Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The scale for measuring intensity is the decibel scale. Each interval of 10 decibels indicates a sound energy ten times greater than before, which is perceived by the human ear as being roughly twice as loud. (2) The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at three feet is roughly at 60 dBA, while loud jet engine noises equate to 110 dBA

at approximately 1,000 feet, which can cause serious discomfort (3). Another important aspect of noise is the duration of the sound and the way it is described and distributed in time.

2.2 NOISE DESCRIPTORS

Environmental noise descriptors are generally based on averages, rather than instantaneous, noise levels. The most used metric is the equivalent level (L_{eq}). Equivalent sound levels are not measured directly but are calculated from sound pressure levels typically measured in A-weighted decibels (dBA). The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period and is commonly used to describe the "average" noise levels within the environment.

Peak hour or average noise levels, while useful, do not completely describe a given noise environment. Noise levels lower than peak hour may be disturbing if they occur during times when quiet is most desirable, namely evening and nighttime (sleeping) hours. To account for this, the Community Noise Equivalent Level (CNEL), representing a composite 24-hour noise level is utilized. The CNEL is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time-of-day corrections require the addition of 5 decibels to dBA L_{eq} sound levels in the evening from 7:00 p.m. to 10:00 p.m., and the addition of 10 decibels to dBA L_{eq} sound levels at night between 10:00 p.m. and 7:00 a.m. These additions are made to account for the noise sensitive time periods during the evening and night hours when noise can become more intrusive. CNEL does not represent the actual sound level heard at any time, but rather represents the total sound exposure. The City of San Bernardino relies on the 24-hour CNEL level to assess land use compatibility with transportation related noise sources.

2.3 SOUND PROPAGATION

When sound propagates over a distance, it changes in level and frequency content. The way noise reduces with distance depends on the following factors.

2.3.1 GEOMETRIC SPREADING

Sound from a localized source (i.e., a stationary point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 dB for each doubling of distance from a point source. Highways consist of several localized noise sources on a defined path and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 dB for each doubling of distance from a line source. (2)

2.3.2 GROUND ABSORPTION

The propagation path of noise from a highway to a receiver is usually very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is usually

sufficiently accurate for distances of less than 200 ft. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receiver, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receiver such as soft dirt, grass, or scattered bushes and trees), an excess ground attenuation value of 1.5 dB per doubling of distance is normally assumed. When added to the cylindrical spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance from a line source. (4)

2.3.3 ATMOSPHERIC EFFECTS

Receivers located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound levels can be increased at large distances (e.g., more than 500 feet) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects. (2)

2.3.4 SHIELDING

A large object or barrier in the path between a noise source and a receiver can substantially attenuate noise levels at the receiver. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise source. Shielding by trees and other such vegetation typically only has an "out of sight, out of mind" effect. That is, the perception of noise impact tends to decrease when vegetation blocks the line-of-sight to nearby residents. However, for vegetation to provide a substantial, or even noticeable, noise reduction, the vegetation area must be at least 15 feet in height, 100 feet wide and dense enough to completely obstruct the line-of-sight between the source and the receiver. This size of vegetation may provide up to 5 dBA of noise reduction. The Federal Highway Administration (FHWA) does not consider the planting of vegetation to be a noise abatement measure. (5)

2.4 NOISE CONTROL

Noise control is the process of obtaining an acceptable noise environment for an observation point or receiver by controlling the noise source, transmission path, receiver, or all three. This concept is known as the source-path-receiver concept. In general, noise control measures can be applied to these three elements.

2.5 NOISE BARRIER ATTENUATION

Effective noise barriers can reduce noise levels by 10 to 15 dBA, cutting the loudness of traffic noise in half. A noise barrier is most effective when placed close to the noise source or receiver. Noise barriers, however, do have limitations. For a noise barrier to work, it must block the line-of-sight path of sound from the noise source.

2.6 LAND USE COMPATIBILITY WITH NOISE

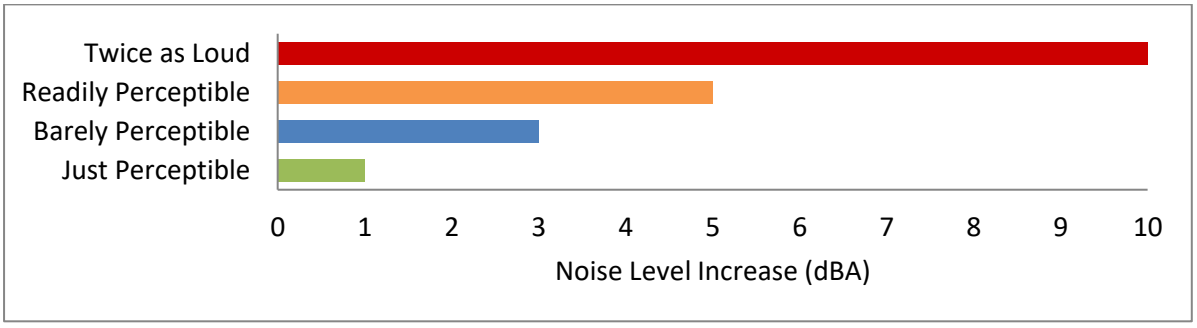
Some land uses are more tolerant of noise than others. For example, schools, hospitals, churches, and residences are more sensitive to noise intrusion than are commercial or industrial developments and related activities. As ambient noise levels affect the perceived amenity or livability of a development, so too can the mismanagement of noise impacts impair the economic health and growth potential of a community by reducing the area's desirability as a place to live, shop and work. For this reason, land use compatibility with the noise environment is an important consideration in the planning and design process. The FHWA encourages State and Local government to regulate land development in such a way that noise-sensitive land uses are either prohibited from being located adjacent to a highway, or that the developments are planned, designed, and constructed in such a way that noise impacts are minimized. (6)

2.7 COMMUNITY RESPONSE TO NOISE

Approximately sixteen percent of the population has a very low tolerance for noise and will object to any noise not of their making. Consequently, even in the quietest environment, some complaints may occur. Twenty to thirty percent of the population will not complain even in very severe noise environments. (7 pp. 8-6) Thus, a variety of reactions can be expected from people exposed to any given noise environment.

Surveys have shown that community response to noise varies from no reaction to vigorous action for newly introduced noises averaging from 10 dB below existing to 25 dB above existing. (8) According to research originally published in the Noise Effects Handbook (7), the percentage of high annoyance ranges from approximately 0 percent at 45 dB or less, 10 percent are highly annoyed around 60 dB, and increases rapidly to approximately 70 percent being highly annoyed at approximately 85 dB or greater. Despite this variability in behavior on an individual level, the population can be expected to exhibit the following responses to changes in noise levels as shown on Exhibit 2-B. A change of 3 dBA is considered barely perceptible, and changes of 5 dBA are considered readily perceptible. (4)

EXHIBIT 2-B: NOISE LEVEL INCREASE PERCEPTION



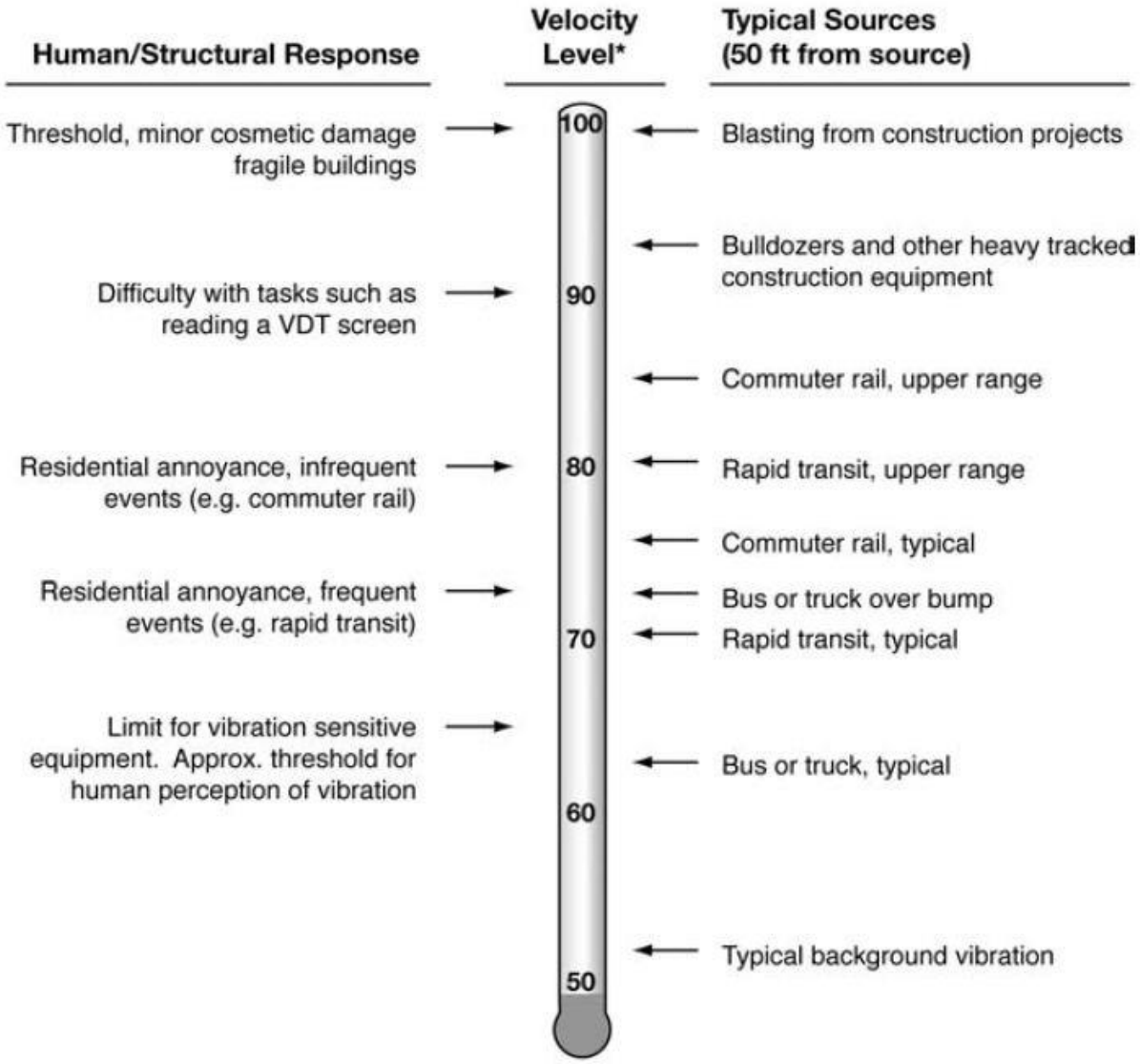
2.8 VIBRATION

Per the Federal Transit Administration (FTA) *Transit Noise Impact and Vibration Impact Assessment Manual* (8) , vibration is the periodic oscillation of a medium or object. The rumbling sound caused by the vibration of room surfaces is called structure-borne noise. Sources of ground-borne vibrations include natural phenomena (e.g., earthquakes, volcanic eruptions, sea waves, landslides) or human-made causes (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous, such as factory machinery, or transient, such as explosions. As is the case with airborne sound, ground-borne vibrations may be described by amplitude and frequency.

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings but is not always suitable for evaluating human response (annoyance) because it takes some time for the human body to respond to vibration signals. Instead, the human body responds to average vibration amplitude often described as the root mean square (RMS). The RMS amplitude is defined as the average of the squared amplitude of the signal and is most frequently used to describe the effect of vibration on the human body. Decibel notation (VdB) is commonly used to measure RMS. Decibel notation (VdB) serves to reduce the range of numbers used to describe human response to vibration. Typically, ground-borne vibration generated by man-made activities attenuates rapidly with distance from the source of the vibration. Sensitive receivers for vibration include structures (especially older masonry structures), people (especially residents, the elderly, and sick), and vibration-sensitive equipment and/or activities.

The background vibration-velocity level in residential areas is generally 50 VdB. Ground-borne vibration is normally perceptible to humans at approximately 65 VdB. For most people, a vibration-velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the ground-borne vibration is rarely perceptible. The range of interest is from approximately 50 VdB, which is the typical background vibration-velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. Exhibit 2-C illustrates common vibration sources and the human and structural response to ground-borne vibration.

EXHIBIT 2-C: TYPICAL LEVELS OF GROUND-BORNE VIBRATION



** RMS Vibration Velocity Level in VdB relative to 10^{-6} inches/second*

Source: Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual.

3 REGULATORY SETTING

The federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise. In most areas, automobile and truck traffic is the major source of environmental noise. Traffic activity generally produces an average sound level that remains constant with time. Air and rail traffic, and commercial and industrial activities are also major sources of noise in some areas. Federal, state, and local agencies regulate different aspects of environmental noise. Federal and state agencies generally set noise standards for mobile sources such as aircraft and motor vehicles, while regulation of stationary sources is left to local agencies.

3.1 STATE OF CALIFORNIA NOISE REQUIREMENTS

The State of California regulates freeway noise, sets standards for sound transmission, provides occupational noise control criteria, identifies noise standards, and provides guidance for local land use compatibility. State law requires that each county and city adopt a General Plan that includes a Noise Element which is to be prepared per guidelines adopted by the Governor's Office of Planning and Research (OPR). (9) The purpose of the Noise Element is to *limit the exposure of the community to excessive noise levels*. In addition, the California Environmental Quality Act (CEQA) requires that all known environmental effects of a project be analyzed, including environmental noise impacts.

3.2 CITY OF SAN BERNARDINO GENERAL PLAN NOISE ELEMENT

The City of San Bernardino General Plan Noise Element identifies several policies to minimize the impacts of excessive noise levels throughout the community. (10) The Noise Element provides policy guidance which addresses the generation, mitigation, avoidance, and the control of excessive noise. To protect City of San Bernardino residents from excessive noise levels, the Noise Element contains the following three goals:

14.1 *Ensure that residents are protected from excessive noise through careful land planning.*

14.2 *Encourage the reduction of noise from transportation-related noise sources such as motor vehicles, aircraft operations, and railroad movements.*

14.3 *Protect residents from the negative effects of "spill over" or nuisance noise.*

The noise policies specified in the City of San Bernardino Noise Element provide the guidelines necessary to satisfy these goals. To ensure that residents are not exposed to excessive noise levels (Goal 14.1), Policies 14.1.1 to 14.1.4 indicate that sensitive land uses such as housing, health care facilities, schools, libraries, and religious facilities should not experience exterior noise levels greater than 65 dBA LDN for exterior areas and 45 dBA LDN for interior areas. As discussed in Section 2.2 the more conservative CNEL descriptor is used in this analysis, and therefore, the exterior noise level criteria of 65 dBA CNEL and interior noise level criteria of 45 dBA CNEL shall apply to sensitive land uses. Policies 14.2.1 to 14.2.19 outline the transportation-related guidelines and mitigation strategies the City uses to satisfy Goal 14.2. To protect residents from sources of operational and construction noise (Goal 14.3), the Noise Element

includes Policies 14.3.1 to 14.3.8 to adopt a Noise Ordinance and ensure noise issues between land uses are reduced. (10)

3.2.1 LAND USE COMPATIBILITY

The noise criteria identified in the City of San Bernardino Noise Element (Figure N-1) are guidelines to evaluate the land use compatibility of transportation-related noise. The compatibility criteria, shown on Exhibit 3-A, provides the city with a planning tool to gauge the compatibility of land uses relative to existing and future exterior noise levels. The *Land Use Compatibility for Community Noise Exposure* guidelines indicate that industrial land uses, such as the Project, are considered *normally acceptable* with noise levels below 75 dBA CNEL and *conditionally acceptable* with noise levels of less than 80 dBA CNEL.

3.2.2 TRANSPORTATION NOISE STANDARDS

To encourage the reduction of noise from transportation-related noise sources such as motor vehicles, aircraft operations and railroad movements (Goal 14.2), Table N-3 of the City of San Bernardino General Plan Noise Element, shown on Exhibit 3-B, identifies a maximum allowable exterior noise level of 65 dBA CNEL and an interior noise level limit of 45 dBA CNEL for new residential developments. While the City specifically identifies an exterior noise level limit for noise-sensitive residential land uses such as hotels, hospitals, schools, and parks, the City of San Bernardino does not maintain exterior noise standards for non-noise sensitive land uses such as manufacturing, warehousing, wholesale and utilities.

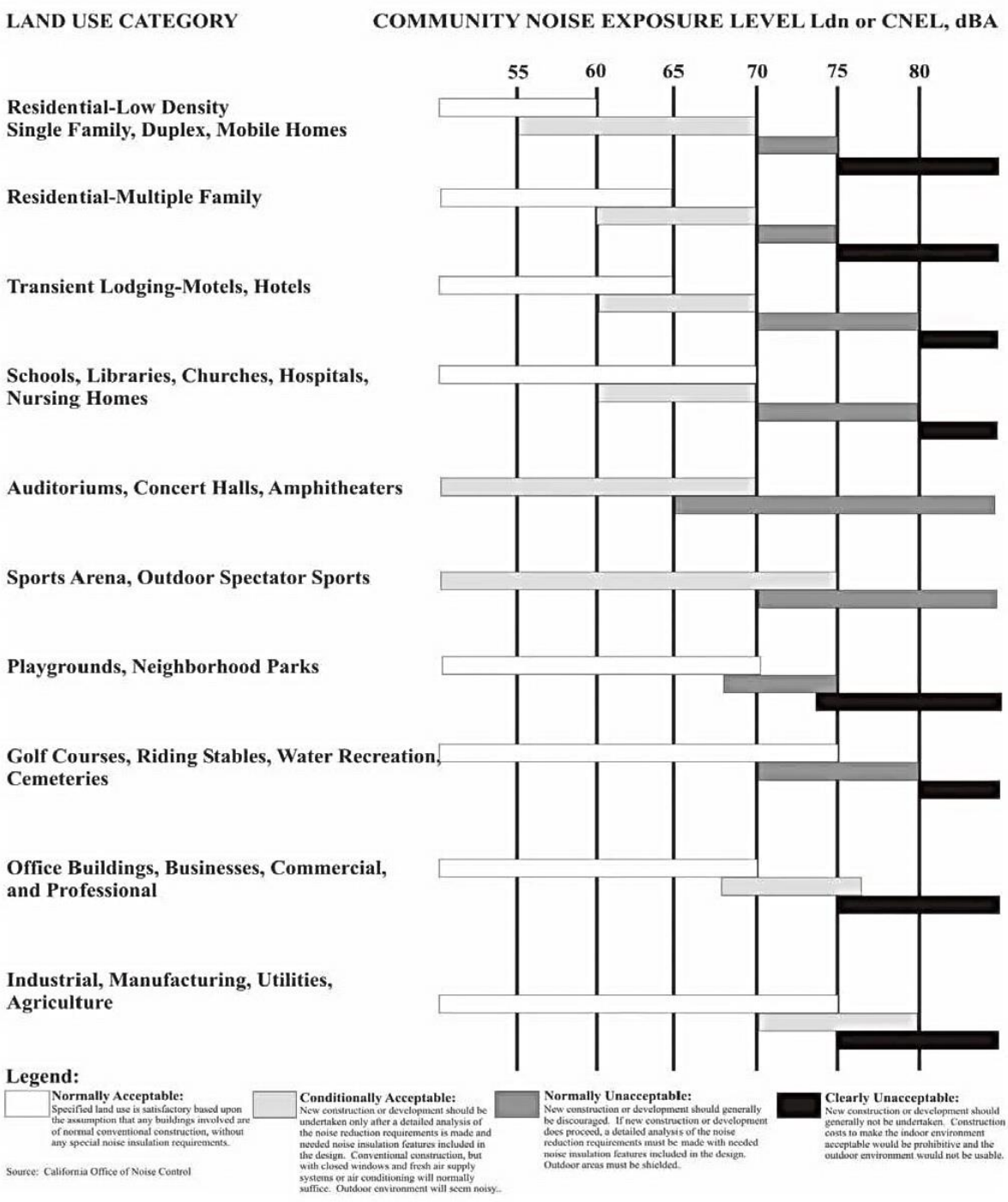
3.3 CONSTRUCTION NOISE STANDARDS

To control noise impacts associated with the construction of the proposed Project, the City of San Bernardino Municipal Code has established limits to the hours of operation. Section 8.54.070 the City of San Bernardino Municipal Code, provided in Appendix 3.1, indicates that construction activity is permitted between the hours within 7:00 a.m. and 8:00 p.m. However, neither the General Plan nor Municipal Code establish numeric maximum acceptable construction source noise levels at potentially affected receivers, which would allow for a quantified determination of what CEQA constitutes a *substantial temporary or periodic noise increase*. Therefore, a numerical construction threshold based on Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual* is used for analysis of daytime construction impacts, as discussed below.

According to the FTA, local noise ordinances are typically not very useful in evaluating construction noise. They usually relate to nuisance and hours of allowed activity, and sometimes specify limits in terms of maximum levels, but are generally not practical for assessing the impact of a construction project. Project construction noise criteria should account for the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land use. Due to the lack of standardized construction noise thresholds, the FTA provides guidelines that can be considered reasonable criteria for construction noise assessment. The FTA considers a daytime exterior construction noise level of

80 dBA L_{eq} as a reasonable threshold for noise sensitive residential land use with a nighttime exterior construction noise level of 70 dBA L_{eq} (8 p. 179).

EXHIBIT 3-A: LAND USE COMPATIBILITY FOR COMMUNITY NOISE EXPOSURE



Source: City of San Bernardino General Plan Noise Element, Figure N-1.

EXHIBIT 3-B: INTERIOR AND EXTERIOR NOISE STANDARDS

Land Use		*CNEL (dBA)*	
Categories	***Uses***	***Interior*** [1]	***Exterior*** [2]
Residential	Single and multi-family, duplex	45[3]	65
	Mobile homes	----	65[4]
Commercial	Hotel, motel, transient housing	45	---
	Commercial retail, bank, restaurant	55	---
	Office building, research and development, professional offices	50	---
	Amphitheater, concert hall, auditorium, movie theater	45	---
	Gymnasium (Multipurpose)	50	---
	Sports Club	55	---
	Manufacturing, warehousing, wholesale, utilities	65	---
	Movie Theaters	45	---
Institutional/ Public	Hospital, school classrooms/playgrounds	45	65
	Church, library	45	---
Open Space	Parks	---	65

[1] Indoor environment excluding: bathrooms, kitchens, toilets, closets, and corridors

[2] Outdoor environment limited to:

- Private yard of single-family dwellings
- Multi-family private patios or balconies accessed from within the dwelling (Balconies 6 feet deep or less are exempt)
- Mobile home parks
- Park picnic areas
- School playgrounds
- Hospital patios

[3] Noise level requirement with closed windows, mechanical ventilation or other means of natural ventilation shall be provided as per Chapter 12, Section 1205 of the Uniform Building Code.

[4] Exterior noise levels should be such that interior noise levels will not exceed 45 dBA CNEL.

Source: City of San Bernardino General Plan Noise Element, Table N-3.

3.4 CONSTRUCTION VIBRATION STANDARDS

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods used, distance to the affected structures and soil type. Construction vibration is generally associated with pile driving and rock blasting. Other construction equipment such as air compressors, light trucks, hydraulic loaders, etc., generates little or no ground vibration (8).

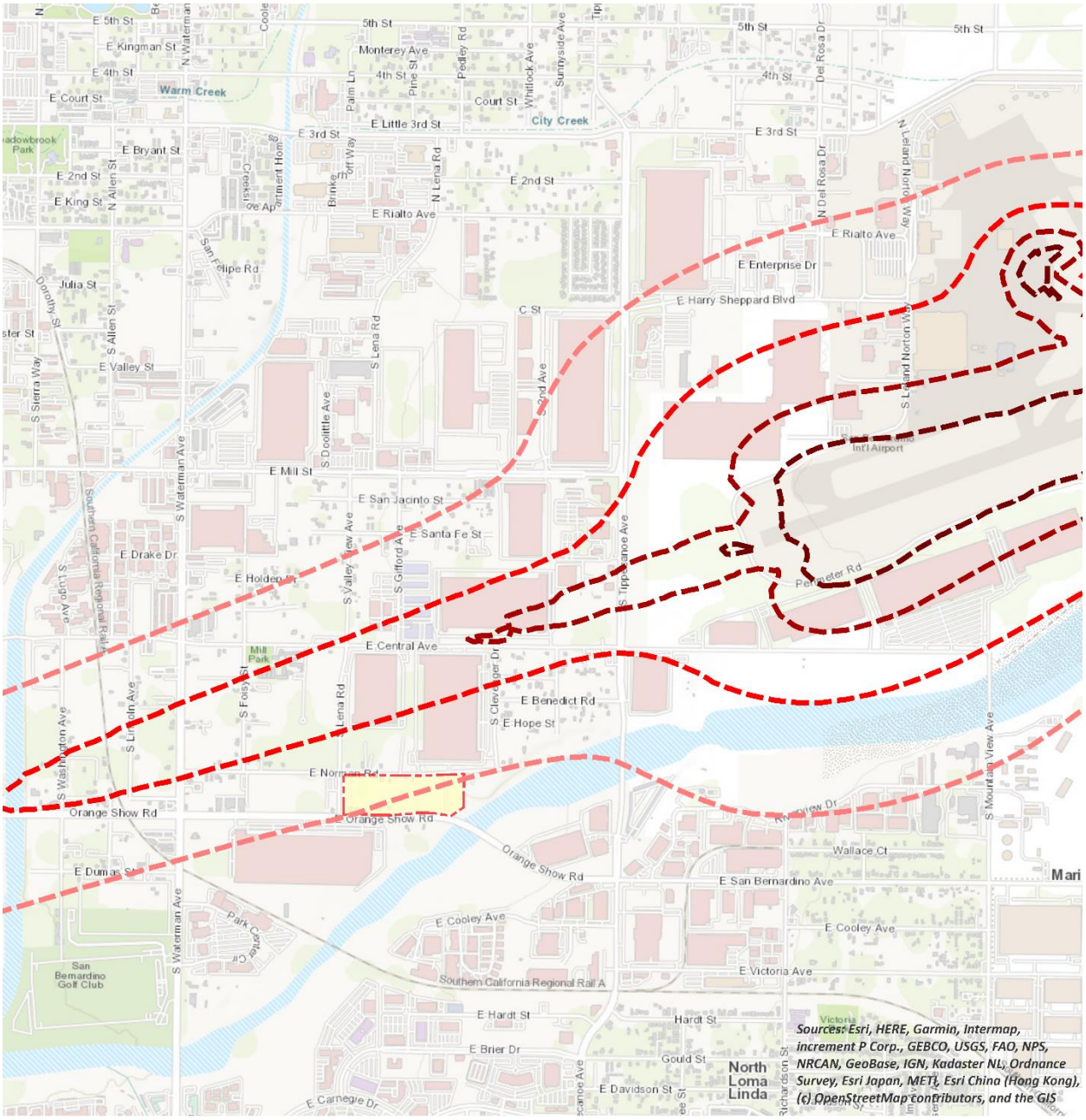
To analyze vibration impacts originating from the operation and construction of the Gateway South 9 Warehouse, vibration-generating activities are appropriately evaluated against standards established under a City's Municipal Code if such standards exist. However, the City of San Bernardino does not identify specific construction vibration level limits. Therefore, for analysis purposes, the Caltrans *Transportation and Construction Vibration Guidance Manual*, (11 p. 38) Table 19, vibration damage are used in this noise study to assess potential temporary construction-related impacts at adjacent building locations. The nearest noise sensitive buildings adjacent to the Project site can best be described as "older residential structures" with a maximum acceptable continuous vibration threshold of 0.3 PPV (in/sec).

3.5 SAN BERNARDINO INTERNATIONAL AIRPORT (SBIA)

The San Bernardino International Airport (SBIA) is located less than one mile northeast of the Project site. This places the Project site within the SBIA Influence Area. The SBIA was initially built as Norton Air Force Base by the United States Air Force (USAF). Under the Base Realignment and Closure Act of 1990, Norton Air Force base was closed and disposed of by the USAF for a civilian aviation reuse in 1994 and transferred to the San Bernardino International Airport Authority (SBIAA). The SBIAA operates the facility as a public-use general aviation airport that accommodates aircraft ranging from piston-powered propeller aircraft to multi-engine jet aircraft including large air cargo aircraft (12). The latest aircraft noise contour boundaries for the SBIA were published by the SBIAA on July 2, 2019, as part of the Eastgate Air Cargo Facility Final Environmental Assessment (12). Figure 4-6 of the Final Environmental Assessment describes the Proposed Project CNEL Contours for the SBIA. The future SBIA noise level contours boundaries representing approximately 87,500 annual aircraft operations are shown on Exhibit 3-C.

As shown on Exhibit 3-C the Project land uses are generally located outside the 65 dBA CNEL noise level contours of the SBIA. Therefore, the Project land use is considered *normally acceptable* according to the City of San Bernardino *Community Noise and Land Use Compatibility* guidelines as shown on Exhibit 3-A.

EXHIBIT 3-C: SAN BERNARDINO INTERNATIONAL AIRPORT (SBIA) NOISE CONTOURS



LEGEND: ***San Bernardino International (SBD) Airport Future Noise Level Contour Boundaries***

Site Boundary | 60 dBA CNEL | 65 dBA CNEL | 70 dBA CNEL | 75 dBA CNEL

N

Source: Figure 4-6 of the Eastgate Air Cargo Facility Final Environmental Assessment published by the SBIAA on July 2, 2019.

4 SIGNIFICANCE CRITERIA

The following significance criteria are based on currently adopted guidance provided by Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1) For the purposes of this report, impacts would be potentially significant if the Project results in or causes:

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

B. Generation of excessive ground-borne vibration or ground-borne noise levels?

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

4.1 NOISE LEVEL INCREASES (THRESHOLD A)

Noise level increases resulting from the Project are evaluated based on the Appendix G CEQA Guidelines. Under CEQA, consideration must be given to the magnitude of the increase, the existing baseline ambient noise levels, and the location of receivers to determine if a noise increase represents a significant adverse environmental impact. This approach recognizes *that there is no single noise increase that renders the noise impact significant.* (13) This is primarily because of the wide variation in individual thresholds of annoyance and differing individual experiences with noise. Thus, an important way of determining a person's subjective reaction to a new noise is the comparison of it to the existing environment to which one has adapted—the so-called *ambient* environment. In general, the more a new noise level exceeds the previously existing ambient noise level, the less acceptable the new noise level will typically be judged.

4.1.1 NOISE-SENSITIVE RECEIVERS

The Federal Interagency Committee on Noise (FICON) (14) developed guidance to be used for the assessment of project-generated increases in noise levels that consider the ambient noise level. The FICON recommendations are based on studies that relate aircraft noise levels to the percentage of persons highly annoyed by aircraft noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, these recommendations are often used in environmental noise impact assessments involving the use of cumulative noise exposure metrics, such as the average-daily noise level (CNEL) and equivalent continuous noise level (L_{eq}).

As previously stated, the approach used in this noise study recognizes *that there is no single noise increase that renders the noise impact significant*, based on a 2008 California Court of Appeal ruling on Gray v. County of Madera. (13) For example, if the ambient noise environment is quiet (<60 dBA) and the new noise source greatly increases the noise levels, an impact may occur if the noise criteria may be exceeded. Therefore, for this analysis, a *readily perceptible* 5 dBA or greater project-related noise level increase is considered a significant impact when the without project noise levels are below 60 dBA. Per the FICON, in areas where the without project noise levels range from 60 to 65 dBA, a 3 dBA *barely perceptible* noise level increase appears to be

appropriate for most people. When the without project noise levels already exceed 65 dBA, any increase in community noise louder than 1.5 dBA or greater is considered a significant impact if the noise criteria for a given land use is exceeded, since it likely contributes to an existing noise exposure exceedance. The FICON guidance provides an established source of criteria to assess the impacts of substantial temporary or permanent increase in baseline ambient noise levels. Based on the FICON criteria, the amount to which a given noise level increase is considered acceptable is reduced when the without Project (baseline) noise levels are already shown to exceed certain land-use specific exterior noise level criteria. The specific levels are based on typical responses to noise level increases of 5 dBA or *readily perceptible*, 3 dBA or *barely perceptible*, and 1.5 dBA depending on the underlying without Project noise levels for noise-sensitive uses. These levels of increases and their perceived acceptance are consistent with guidance provided by both the Federal Highway Administration (4 p. 9) and Caltrans (15 p. 2_48).

4.1.2 NON-NOISE-SENSITIVE RECEIVERS

The City of San Bernardino General Plan Noise Element, Table N-1, *Land Use Compatibility for Community Noise Exposure* was used to establish the satisfactory noise levels of significance for non-noise-sensitive land uses in the Project study area. As previously shown on Exhibit 3-A, the *normally acceptable* exterior noise level for non-noise-sensitive land uses is 70 dBA CNEL. Noise levels greater than 70 dBA CNEL are considered *conditionally acceptable* per the *Land Use Compatibility for Community Noise Exposure*. (10)

To determine if Project-related traffic noise level increases are significant at off-site non-noise-sensitive land uses, a *barely perceptible* 3 dBA criteria is used. When the without Project noise levels are greater than the *normally acceptable* 70 dBA CNEL land use compatibility criteria, a *barely perceptible* 3 dBA or greater noise level increase is considered a significant impact since the noise level criteria is already exceeded. The noise level increases used to determine significant impacts for non-noise-sensitive land uses is generally consistent with the FICON noise level increase thresholds for noise-sensitive land uses but instead rely on the City of San Bernardino General Plan Noise Element, Table N-1, *Land Use Compatibility for Community Noise Exposure normally acceptable* 70 dBA CNEL exterior noise level criteria.

4.2 VIBRATION (THRESHOLD B)

As described in Section 3.4, the vibration impacts originating from the construction of Gateway South 9 Warehouse, vibration-generating activities are appropriately evaluated using the Caltrans vibration damage thresholds to assess potential temporary construction-related impacts at adjacent building locations. The nearest noise sensitive buildings adjacent to the Project site can best be described as “older residential structures” with a maximum acceptable continuous vibration threshold of 0.3 PPV (in/sec).

4.3 CEQA GUIDELINES NOT FURTHER ANALYZED (THRESHOLD C)

The closest airport which would require additional noise analysis under CEQA Appendix G Guideline C is the SBIA. As previously indicated in Section 3.5, the noise contour boundaries of SBIA are presented on Exhibit 3-C of this report and shows that the Project's industrial land uses are considered *normally acceptable* since the development area is located outside the 65 dBA CNEL contour. Therefore, the Project impacts are considered *less than significant,* and no further noise analysis is provided under CEQA Significance Criteria C.

4.4 SIGNIFICANCE CRITERIA SUMMARY

Noise impacts shall be considered significant if any of the following occur as a direct result of the proposed Project. Table 4-1 shows the significance criteria summary matrix that includes the allowable criteria used to identify potentially significant incremental noise level increases.

TABLE 4-1: SIGNIFICANCE CRITERIA SUMMARY

Analysis	Receiving Land Use	Condition(s)	Significance Criteria	
			Daytime	Nighttime
Off-Site	Noise-Sensitive[1]	If ambient is < 60 dBA CNEL	≥ 5 dBA CNEL Project increase	
		If ambient is 60 - 65 dBA CNEL	≥ 3 dBA CNEL Project increase	
		If ambient is > 65 dBA CNEL	≥ 1.5 dBA CNEL Project increase	
	Non-Noise-Sensitive[2]	if ambient is > 70 dBA CNEL	≥ 3 dBA CNEL Project increase	
Operational	Noise-Sensitive[1]	Exterior Noise Level Limit[3]	65 dBA L_{eq}	
		If ambient is < 60 dBA L_{eq}[1]	≥ 5 dBA L_{eq} Project increase	
		If ambient is 60 - 65 dBA L_{eq}[1]	≥ 3 dBA L_{eq} Project increase	
		If ambient is > 65 dBA L_{eq}[1]	≥ 1.5 dBA L_{eq} Project increase	
Construction	Noise-Sensitive[1]	Permitted between the hours within 7:00 a.m. and 8:00 p.m.[4]		
		Noise Level Threshold[5]	80 dBA L_{eq}	70 dBA L_{eq}
		Vibration Level Threshold[6]	0.3 PPV (in/sec)	n/a

[1] FICON, 1992.
[2] City of San Bernardino General Plan Noise Element, Figure N-1.
[3] City of San Bernardino Development Code, Section 19.20.030.15[A] (Appendix 3.1).
[4] Section 8.54.070 of the City of San Bernardino Municipal Code (Appendix 3.1).
[5] Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.
[6] Caltrans Transportation and Construction Vibration Manual, April 2020 Table 19.
"Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

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5 EXISTING NOISE LEVEL MEASUREMENTS

To assess the existing noise level environment, 24-hour noise level measurements were taken at four locations in the Project study area. The receiver locations were selected to describe and document the existing noise environment within the Project study area. Exhibit 5-A provides the boundaries of the Project study area and the noise level measurement locations. To fully describe the existing noise conditions, noise level measurements were collected by Urban Crossroads, Inc. on Wednesday, November 30th, 2022. Appendix 5.1 includes study area photos.

5.1 MEASUREMENT PROCEDURE AND CRITERIA

To describe the existing noise environment, the hourly noise levels were measured during typical weekday conditions over a 24-hour period. By collecting individual hourly noise level measurements, it is possible to describe the equivalent daytime and nighttime hourly noise levels. The long-term noise readings were recorded using Piccolo Type 2 integrating sound level meter and dataloggers. The Piccolo sound level meters were calibrated using a Larson-Davis calibrator, Model CAL 150. All noise meters were programmed in "slow" mode to record noise levels in "A" weighted form. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment satisfies the American National Standards Institute (ANSI) standard specifications for sound level meters ANSI S1.4-2014/IEC 61672-1:2013. (17)

5.2 NOISE MEASUREMENT LOCATIONS

The long-term noise level measurements were positioned as close to the nearest sensitive receiver locations as possible to assess the existing ambient hourly noise levels surrounding the Project site. Both Caltrans and the FTA recognize that it is not reasonable to collect noise level measurements that can fully represent every part of a private yard, patio, deck, or balcony normally used for human activity when estimating impacts for new development projects. This is demonstrated in the Caltrans general site location guidelines which indicate that, *sites must be free of noise contamination by sources other than sources of interest. Avoid sites located near sources such as barking dogs, lawnmowers, pool pumps, and air conditioners unless it is the express intent of the analyst to measure these sources*. (2) Further, FTA guidance states, t*hat it is not necessary nor recommended that existing noise exposure be determined by measuring at every noise-sensitive location in the project area. Rather, the recommended approach is to characterize the noise environment for clusters of sites based on measurements or estimates at representative locations in the community*. (8)

Based on recommendations of Caltrans and the FTA, it is not necessary to collect measurements at each individual building or residence, because each receiver measurement represents a group of buildings that share acoustical equivalence. (8) In other words, the area represented by the receiver shares similar shielding, terrain, and geometric relationship to the reference noise source. Receivers represent a location of noise sensitive areas and are used to estimate the future noise level impacts. Collecting reference ambient noise level measurements at the nearby sensitive receiver locations allows for a comparison of the before and after Project noise levels

and is necessary to assess potential noise impacts due to the Project's contribution to the ambient noise levels.

EXHIBIT 5-A: NOISE MEASUREMENT LOCATIONS



5.3 NOISE MEASUREMENT RESULTS

The noise measurements presented below focus on the average or equivalent sound levels (L_{eq}). The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period. Table 5-1 identifies the hourly daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) noise levels at each noise level measurement location.

TABLE 5-1: 24-HOUR AMBIENT NOISE LEVEL MEASUREMENTS

Location[1]	Description	Energy Average Noise Level (dBA L_{eq})[2]	
		Daytime	Nighttime
L1	Located northeast of the project site near the single-family residence at 948 Norman Rd.	60.1	59.1
L2	Located northeast of the project site near the single-family residence at 984 Hope St.	57.8	57.6
L3	Located south of the project site near the single-family residence at 755 Orange Show Rd.	71.3	68.9
L4	Located west of the project site near the single-family residence at 434 Norman Rd.	63.8	62.4

[1] See Exhibit 5-A for the noise level measurement locations.
[2] Energy (logarithmic) average levels. The long-term 24-hour measurement worksheets are included in Appendix 5.2.
"Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

Table 5-1 provides the equivalent noise levels used to describe the daytime, and nighttime ambient conditions. These daytime and nighttime energy average noise levels represent the average of all hourly noise levels observed during these time periods expressed as a single number. Appendix 5.2 provides summary worksheets of the noise levels for each hour as well as the minimum, maximum, L_1, L_2, L_5, L_8, L_{25}, L_{50}, L_{90}, L_{95}, and L_{99} percentile noise levels observed during the daytime and nighttime periods.

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6 TRAFFIC NOISE METHODS AND PROCEDURES

The following section outlines the methods and procedures used to estimate and analyze the future traffic noise environment. Consistent with the State of California Land Use Compatibility Plan (see Exhibit 3-A), all transportation related noise levels are presented in terms of the 24-hour CNEL's.

6.1 FHWA TRAFFIC NOISE PREDICTION MODEL

The expected roadway noise level increases from vehicular traffic were calculated by Urban Crossroads, Inc. using a computer program that replicates the Federal Highway Administration (FHWA) Traffic Noise Prediction Model- FHWA-RD-77-108. (18) The FHWA Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). In California the national REMELs are substituted with the California Vehicle Noise (Calveno) Emission Levels. (19) Adjustments are then made to the REMEL to account for: the roadway classification (e.g., collector, secondary, major or arterial), the roadway active width (i.e., the distance between the center of the outermost travel lanes on each side of the roadway), the total average daily traffic (ADT), the travel speed, the percentages of automobiles, medium trucks, and heavy trucks in the traffic volume, the roadway grade, the angle of view (e.g., whether the roadway view is blocked), the site conditions ("hard" or "soft" relates to the absorption of the ground, pavement, or landscaping), and the percentage of total ADT which flows each hour throughout a 24-hour period. Research conducted by Caltrans has shown that the use of soft site conditions is appropriate for the application of the FHWA traffic noise prediction model used in this analysis. (20)

6.1.1 OFF-SITE TRAFFIC NOISE PREDICTION MODEL INPUTS

Table 6-1 presents the roadway parameters used to assess the Project's off-site transportation noise impacts. Table 6-1 identifies the six off-site study area roadway segments, the distance from the centerline to adjacent land use based on the functional roadway classifications per the City of San Bernardino General Plan Circulation Element, and the posted vehicle speeds. The ADT volumes used in this study area presented on Table 6-2 are based on *Gateway South 9 Warehouse Traffic Impact Analysis*, prepared by Translutions, Inc. (21)

- Existing Conditions 2022 (E)
- Existing Conditions plus Project (E+P)
- Opening Year (2024) Base Plus Other Projects (OY)
- Opening Year (2024) Base Plus Other Projects Plus Project (OY+P)

The ADT volumes vary for each roadway segment based on the existing traffic volumes and the combination of project traffic distributions. This analysis relies on a comparative evaluation of the off-site traffic noise impacts at the boundary of the right-of-way of the receiving adjacent land use, without and with project ADT traffic volumes from the Project traffic analysis. The Project is anticipated to generate a net total of 557 two-way trips per day (actual vehicles) that

includes 88 truck trips. However, the project site is currently occupied and includes various industrial land uses generating approximately 153 two-way trips per day (actual vehicles) that includes 133 truck trips. While the traffic impact analysis suggests that the Project will result in a reduction in the number of trips, the following off-site traffic noise analysis includes an additional 493 two-way trips per day (actual vehicles) that includes 44 truck trips.

TABLE 6-1: OFF-SITE ROADWAY PARAMETERS

ID	Roadway	Segment	Classification[1]	Receiving Land Use[2]	Distance from Centerline to Receiving Land Use (Feet)[3]	Vehicle Speed (mph)
1	Lena Rd.	n/o Norman Rd.	Major Arterial	Non-Sensitive	50'	45
2	Lena Rd.	n/o Orange Show Rd.	Major Arterial	Non-Sensitive	50'	45
3	Norman Rd.	w/o Lena Rd.	Local	Sensitive	30'	25
4	Norman Rd.	e/o Lena Rd.	Local	Sensitive	30'	25
5	Orange Show Rd.	w/o Lena Rd.	Major Arterial	Sensitive	50'	50
6	Orange Show Rd.	e/o Lena Rd.	Major Arterial	Sensitive	50'	50

[1] City of San Bernardino General Plan Circulation Element.
[2] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[3] Distance to receiving land use is based upon the right-of-way distances.

To quantify the off-site noise levels, the Project related truck trips were added to the heavy truck category in the FHWA noise prediction model. The addition of the Project related truck trips increases the percentage of heavy trucks in the vehicle mix. This approach recognizes that the FHWA noise prediction model is significantly influenced by the number of heavy trucks in the vehicle mix.

Table 6-3 provides the time of day (daytime, evening, and nighttime) vehicle splits. The daily Project truck trip-ends were assigned to the individual off-site study area roadway segments based on the Project truck trip distribution percentages documented in the *Gateway South 9 Warehouse Traffic Impact Analysis*. Using the Project truck trips in combination with the Project trip distribution, Urban Crossroads, Inc. calculated the number of additional Project truck trips and vehicle mix percentages for each of the study area roadway segments. Table 6-4 shows the traffic flow by vehicle type (vehicle mix) used for all without Project traffic scenarios, and Tables 6-5 to 6-8 show the vehicle mixes used for the with Project traffic scenarios.

TABLE 6-2: AVERAGE DAILY TRAFFIC VOLUMES

ID	Roadway	Segment	Average Daily Traffic Volumes[1]			
			Existing		Opening Year 2024	
			Without Project	With Project	Without Project	With Project
1	Lena Rd.	n/o Norman Rd.	1,790	1,857	1,940	2,007
2	Lena Rd.	n/o Orange Show Rd.	2,610	2,736	2,660	2,786
3	Norman Rd.	w/o Lena Rd.	430	475	480	525
4	Norman Rd.	e/o Lena Rd.	1,230	1,423	1,240	1,433
5	Orange Show Rd.	w/o Lena Rd.	430	721	480	771
6	Orange Show Rd.	e/o Lena Rd.	1,230	1,429	1,240	1,439

[1] Gateway South 9 Warehouse Traffic Impact Analysis, Translutions, Inc.

TABLE 6-3: TIME OF DAY VEHICLE SPLITS

Vehicle Type	Time of Day Splits[1]			Total of Time of Day Splits
	Daytime	Evening	Nighttime	
Autos	77.50%	12.90%	9.60%	100.00%
Medium Trucks	84.80%	4.90%	10.30%	100.00%
Heavy Trucks	86.50%	2.70%	10.80%	100.00%

[1] Typical vehicle mix. Values rounded to the nearest one-hundredth.
"Daytime" = 7:00 a.m. to 7:00 p.m.; "Evening" = 7:00 p.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

TABLE 6-4: WITHOUT PROJECT VEHICLE MIX

Classification	Total % Traffic Flow			Total
	Autos	Medium Trucks	Heavy Trucks	
All Segments	93.28%	2.61%	4.10%	100.00%

[1] Based on the June 15, 2021, 24-hour directional vehicle classification count collected on north/south of Lena Rd. and east/west of Norman Rd. (Gateway South 9 Warehouse Traffic Impact Analysis, Translutions, Inc.)

Due to the added Project truck trips, the increase in Project traffic volumes and the distributions of trucks on the study area road segments, the percentage of autos, medium trucks and heavy trucks will vary for each of the traffic scenarios. This explains why the existing and future traffic volumes and vehicle mixes vary between seemingly identical study area roadway segments.

TABLE 6-5: EXISTING WITH PROJECT VEHICLE MIX

ID	Roadway	Segment	With Project[1]			
			Autos	Medium Trucks	Heavy Trucks	Total[2]
1	Lena Rd.	n/o Norman Rd.	93.53%	2.52%	3.96%	100.00%
2	Lena Rd.	n/o Orange Show Rd.	93.10%	2.57%	4.32%	100.00%
3	Norman Rd.	w/o Lena Rd.	93.92%	2.36%	3.72%	100.00%
4	Norman Rd.	e/o Lena Rd.	93.26%	2.42%	4.33%	100.00%
5	Orange Show Rd.	w/o Lena Rd.	89.84%	2.59%	7.57%	100.00%
6	Orange Show Rd.	e/o Lena Rd.	92.04%	2.61%	5.34%	100.00%

[1] Total of vehicle mix percentage values rounded to the nearest one-hundredth.

TABLE 6-6: OPENING YEAR (2024) WITH PROJECT VEHICLE MIX

ID	Roadway	Segment	With Project[1]			
			Autos	Medium Trucks	Heavy Trucks	Total[2]
1	Lena Rd.	n/o Norman Rd.	93.51%	2.52%	3.97%	100.00%
2	Lena Rd.	n/o Orange Show Rd.	93.11%	2.57%	4.32%	100.00%
3	Norman Rd.	w/o Lena Rd.	93.86%	2.39%	3.75%	100.00%
4	Norman Rd.	e/o Lena Rd.	93.26%	2.42%	4.33%	100.00%
5	Orange Show Rd.	w/o Lena Rd.	90.06%	2.59%	7.35%	100.00%
6	Orange Show Rd.	e/o Lena Rd.	92.05%	2.61%	5.33%	100.00%

[1] Total of vehicle mix percentage values rounded to the nearest one-hundredth.

7 OFF-SITE TRAFFIC NOISE ANALYSIS

To assess the off-site transportation CNEL noise level impacts associated with development of the proposed Project, noise contours were developed based on the *Gateway South 9 Warehouse Traffic Impact Analysis* prepared by Translutions, Inc. (21) Noise contour boundaries represent the equal levels of noise exposure and are measured in CNEL from the center of the roadway.

7.1 TRAFFIC NOISE CONTOURS

Noise contours were used to assess the Project's incremental traffic-related noise impacts at land uses adjacent to roadways conveying Project traffic. The noise contours represent the distance to noise levels of a constant value and are measured from the center of the roadway for the 70, 65, and 60 dBA noise levels. The noise contours do not consider the effect of any existing noise barriers or topography that may attenuate ambient noise levels. In addition, because the noise contours reflect modeling of vehicular noise on area roadways, they appropriately do not reflect noise contributions from the surrounding stationary noise sources within the Project study area. Tables 7-1 to 7-4 present a summary of the exterior traffic noise levels for each traffic condition. Appendix 7.1 includes the traffic noise level contours worksheets for each traffic condition.

TABLE 7-1: EXISTING WITHOUT PROJECT CONTOURS

ID	Road	Segment	Receiving Land Use[1]	CNEL at Receiving Land Use (dBA)[2]	Distance to Contour from Centerline (Feet)		
					70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
1	Lena Rd.	n/o Norman Rd.	Non-Sensitive	63.8	RW	RW	90
2	Lena Rd.	n/o Orange Show Rd.	Non-Sensitive	65.5	RW	54	116
3	Norman Rd.	w/o Lena Rd.	Sensitive	54.5	RW	RW	RW
4	Norman Rd.	e/o Lena Rd.	Sensitive	59.0	RW	RW	RW
5	Orange Show Rd.	w/o Lena Rd.	Sensitive	58.6	RW	RW	RW
6	Orange Show Rd.	e/o Lena Rd.	Sensitive	63.1	RW	RW	81

[1] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[2] The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.
"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-2: EXISTING WITH PROJECT CONTOURS

ID	Road	Segment	Receiving Land Use[1]	CNEL at Receiving Land Use (dBA)[2]	Distance to Contour from Centerline (Feet)		
					70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
1	Lena Rd.	n/o Norman Rd.	Non-Sensitive	63.9	RW	RW	91
2	Lena Rd.	n/o Orange Show Rd.	Non-Sensitive	65.8	RW	57	122
3	Norman Rd.	w/o Lena Rd.	Sensitive	54.6	RW	RW	RW
4	Norman Rd.	e/o Lena Rd.	Sensitive	59.8	RW	RW	RW
5	Orange Show Rd.	w/o Lena Rd.	Sensitive	62.4	RW	RW	72
6	Orange Show Rd.	e/o Lena Rd.	Sensitive	64.4	RW	RW	98

[1] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[2] The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.
"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-3: OPENING YEAR (2024) WITHOUT PROJECT CONTOURS

ID	Road	Segment	Receiving Land Use[1]	CNEL at Receiving Land Use (dBA)[2]	Distance to Contour from Centerline (Feet)		
					70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
1	Lena Rd.	n/o Norman Rd.	Non-Sensitive	64.2	RW	RW	95
2	Lena Rd.	n/o Orange Show Rd.	Non-Sensitive	65.6	RW	54	117
3	Norman Rd.	w/o Lena Rd.	Sensitive	54.9	RW	RW	RW
4	Norman Rd.	e/o Lena Rd.	Sensitive	59.1	RW	RW	RW
5	Orange Show Rd.	w/o Lena Rd.	Sensitive	59.1	RW	RW	RW
6	Orange Show Rd.	e/o Lena Rd.	Sensitive	63.2	RW	RW	81

[1] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[2] The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.
"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-4: OPENING YEAR (2024) WITH PROJECT CONTOURS

ID	Road	Segment	Receiving Land Use[1]	CNEL at Receiving Land Use (dBA)[2]	Distance to Contour from Centerline (Feet)		
					70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
1	Lena Rd.	n/o Norman Rd.	Non-Sensitive	64.2	RW	RW	96
2	Lena Rd.	n/o Orange Show Rd.	Non-Sensitive	65.9	RW	57	123
3	Norman Rd.	w/o Lena Rd.	Sensitive	55.0	RW	RW	RW
4	Norman Rd.	e/o Lena Rd.	Sensitive	59.8	RW	RW	RW
5	Orange Show Rd.	w/o Lena Rd.	Sensitive	62.6	RW	RW	74
6	Orange Show Rd.	e/o Lena Rd.	Sensitive	64.4	RW	RW	99

[1] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[2] The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.
"RW" = Location of the respective noise contour falls within the right-of-way of the road.

7.2 EXISTING PROJECT TRAFFIC NOISE LEVEL INCREASES

An analysis of existing traffic noise levels plus traffic noise generated by the proposed Project has been included in this report for informational purposes and to fully analyze all the existing traffic scenarios identified in the Traffic Impact Analysis prepared by Translutions, Inc. However, the analysis of existing off-site traffic noise levels plus traffic noise generated by the proposed Project scenario will not actually occur since the Project would not be fully constructed and operational until Year 2023 conditions. Table 7-1 shows the Existing without Project conditions CNEL noise levels. The Existing without Project exterior noise levels range from 54.5 to 65.5 dBA CNEL, without accounting for any noise attenuation features such as noise barriers or topography. Table 7-2 shows the Existing with Project conditions ranging from 54.6 to 65.8 dBA CNEL. Table 7-5 shows that the Project off-site traffic noise level increases range from 0.0 to 3.8 dBA CNEL on the study area roadway segments. Based on the significance criteria for off-site traffic noise presented in Table 4-1, land uses adjacent to the study area roadway segments would experience *less than significant* noise level increases on receiving land uses due to the Project-related traffic.

7.3 OPENING YEAR (2024) TRAFFIC NOISE LEVEL INCREASES

Table 7-3 presents the Opening Year (2024) without Project conditions CNEL noise levels. The OY (2024) without Project exterior noise levels range from 54.9 to 65.6 dBA CNEL, without accounting for any noise attenuation features such as noise barriers or topography. Table 7-4 shows that the Opening Year (2024) with Project conditions will range from 55.0 to 65.9 dBA CNEL. Table 7-6 shows that the Project off-site traffic noise level increases range from 0.0 to 3.5 dBA CNEL. Based on the significance criteria for off-site traffic noise presented in Table 4-1, land uses adjacent to the study area roadway segments would experience *less than significant* noise level increases on receiving land uses due to the Project-related traffic.

TABLE 7-5: EXISTING WITH PROJECT TRAFFIC NOISE LEVEL INCREASES

ID	Road	Segment	Receiving Land Use[1]	CNEL at Receiving Land Use (dBA)[2]			Incremental Noise Level Increase Threshold[3]	
				No Project	With Project	Project Increment	Limit	Exceeded?
1	Lena Rd.	n/o Norman Rd.	Non-Sensitive	63.8	63.9	0.1	n/a	No
2	Lena Rd.	n/o Orange Show Rd.	Non-Sensitive	65.5	65.8	0.3	n/a	No
3	Norman Rd.	w/o Lena Rd.	Sensitive	54.5	54.6	0.1	5.0	No
4	Norman Rd.	e/o Lena Rd.	Sensitive	59.0	59.8	0.8	5.0	No
5	Orange Show Rd.	w/o Lena Rd.	Sensitive	58.6	62.4	3.8	5.0	No
6	Orange Show Rd.	e/o Lena Rd.	Sensitive	63.1	64.4	1.3	3.0	No

[1] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[2] The CNEL is calculated at the boundary of the right-of-way of each roadway and the property line of the receiving land use.
[3] Does the Project create an incremental noise level increase exceeding the significance criteria (Table 4-1)?
"n/a" Per the General Plan Noise Element Table N-1, a barely perceptible 3 dBA or greater noise level increase is considered a significant impact when the ambient non-noise sensitive noise level is greater than the normally acceptable 70 dBA CNEL land use compatibility criteria.

TABLE 7-6: OPENING YEAR (2024) WITH PROJECT TRAFFIC NOISE LEVEL INCREASES

ID	Road	Segment	Receiving Land Use[1]	CNEL at Receiving Land Use (dBA)[2]			Incremental Noise Level Increase Threshold[3]	
				No Project	With Project	Project Increment	Limit	Exceeded?
1	Lena Rd.	n/o Norman Rd.	Non-Sensitive	64.2	64.2	0.0	n/a	No
2	Lena Rd.	n/o Orange Show Rd.	Non-Sensitive	65.6	65.9	0.3	n/a	No
3	Norman Rd.	w/o Lena Rd.	Sensitive	54.9	55.0	0.1	5.0	No
4	Norman Rd.	e/o Lena Rd.	Sensitive	59.1	59.8	0.7	5.0	No
5	Orange Show Rd.	w/o Lena Rd.	Sensitive	59.1	62.6	3.5	5.0	No
6	Orange Show Rd.	e/o Lena Rd.	Sensitive	63.2	64.4	1.2	3.0	No

[1] Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.
[2] The CNEL is calculated at the boundary of the right-of-way of each roadway and the property line of the receiving land use.
[3] Does the Project create an incremental noise level increase exceeding the significance criteria (Table 4-1)?
"n/a" Per the General Plan Noise Element Table N-1, a barely perceptible 3 dBA or greater noise level increase is considered a significant impact when the ambient non-noise sensitive noise level is greater than the normally acceptable 70 dBA CNEL land use compatibility criteria.

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8 RECEIVER LOCATIONS

To assess the potential for long-term operational and short-term construction noise impacts, the following sensitive receiver locations, as shown on Exhibit 8-A, were identified as representative locations for analysis. Sensitive receivers are generally defined as locations where people reside or where the presence of unwanted sound could otherwise adversely affect the use of the land. Noise-sensitive land uses are generally considered to include schools, hospitals, single-family dwellings, mobile home parks, churches, libraries, and recreation areas. Moderately noise-sensitive land uses typically include multi-family dwellings, hotels, motels, dormitories, out-patient clinics, cemeteries, golf courses, country clubs, athletic/tennis clubs, and equestrian clubs. Land uses that are considered relatively insensitive to noise include business, commercial, and professional developments. Land uses that are typically not affected by noise include: industrial, manufacturing, utilities, agriculture, undeveloped land, parking lots, warehousing, liquid and solid waste facilities, salvage yards, and transit terminals.

To describe the potential off-site Project noise levels, four receiver locations in the vicinity of the Project site were identified. The selection of receiver locations is based on FHWA guidelines and is consistent with additional guidance provided by Caltrans and the FTA, as previously described in Section 5.2. Other sensitive land uses in the Project study area that are located at greater distances than those identified in this noise study will experience lower noise levels than those presented in this report due to the additional attenuation from distance and the shielding of intervening structures. Distance is measured in a straight line from the project boundary to each receiver location.

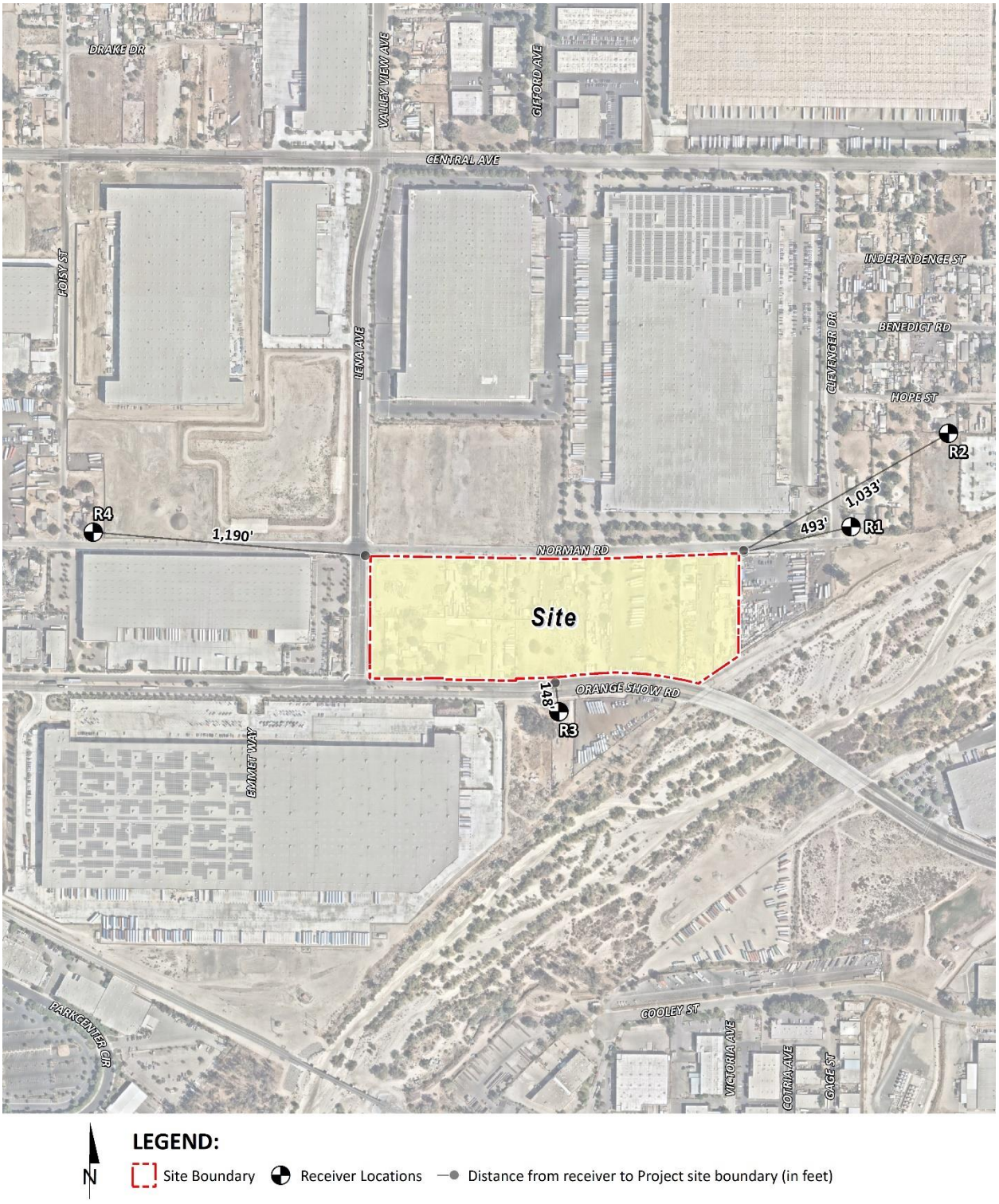
R1: Location R1 represents the existing residence at 948 East Norman Road, approximately 493 feet northeast of the Project site. R1 is placed in the private outdoor living areas (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L1, to describe the existing ambient noise environment.

R2: Location R2 represents the existing residence at 1031 Hope Street, approximately 1,033 feet northeast of the Project site. R2 is placed in the private outdoor living areas (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L2, to describe the existing ambient noise environment.

R3: Location R3 represents the existing residence at 755 East Orange Show Road, approximately 148 feet south of the Project site. R3 is placed in the private outdoor living areas (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L3, to describe the existing ambient noise environment.

R4: Location R4 represents the existing residence at 514 East Norman Road, approximately 1,190 feet northwest of the Project site. R4 is placed in the private outdoor living areas (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

EXHIBIT 8-A: RECEIVER LOCATIONS



9 OPERATIONAL NOISE ANALYSIS

This section analyzes the potential stationary-source operational noise impacts at the nearby receiver locations, identified in Section 8, resulting from the operation of the proposed Gateway South 9 Warehouse Project. Exhibit 9-A identifies the noise source locations used to assess the operational noise levels. The operational noise analysis includes the planned 14-foot-high screen walls. The screenwall shown on Exhibit 9-A is designed for screening, privacy, noise control, and security.

9.1 OPERATIONAL NOISE SOURCES

This operational noise analysis is intended to describe noise level impacts associated with the expected typical of daytime and nighttime activities at the Project site. To present the potential worst-case noise conditions, this analysis assumes the Project would be operational 24 hours per day, seven days per week. Consistent with similar warehouse and industrial uses, the Project business operations would primarily be conducted within the enclosed building, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays. The on-site Project-related noise sources are expected to include: loading dock activity, roof-top air conditioning units, trash enclosure activity, parking lot vehicle movements, and truck movements.

9.2 REFERENCE NOISE LEVELS

To estimate the Project operational noise impacts, reference noise level measurements were collected from similar types of activities to represent the noise levels expected with the development of the proposed Project. This section provides a detailed description of the reference noise level measurements shown on Table 9-1 used to estimate the Project operational noise impacts. It is important to note that the following projected noise levels assume the worst-case noise environment with the loading dock activity, roof-top air conditioning units, trash enclosure activity, parking lot vehicle movements, and truck movements all operating at the same time. These sources of noise activity will likely vary throughout the day.

9.2.1 MEASUREMENT PROCEDURES

The reference noise level measurements presented in this section were collected using a Larson Davis LxT Type 1 precision sound level meter (serial number 01146). The LxT sound level meter was calibrated using a Larson-Davis calibrator, Model CAL 200, was programmed in "slow" mode to record noise levels in "A" weighted form and was located at approximately five feet above the ground elevation for each measurement. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment satisfies the American National Standards Institute (ANSI) standard specifications for sound level meters ANSI S1.4-2014/IEC 61672-1:2013. (17)

EXHIBIT 9-A: OPERATIONAL NOISE SOURCE LOCATIONS

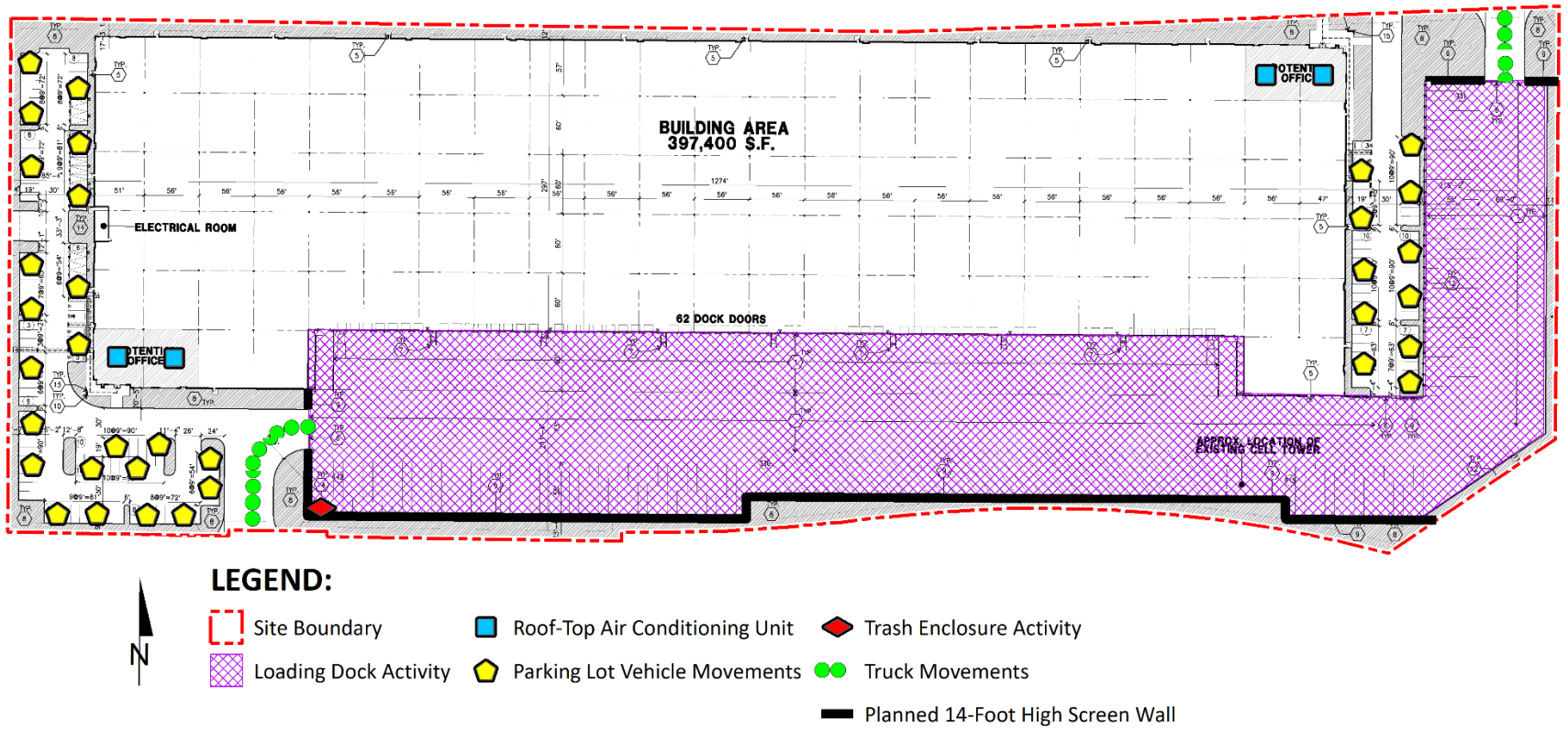


TABLE 9-1: REFERENCE NOISE LEVEL MEASUREMENTS

Noise Source[1]	Noise Source Height (Feet)	Min./ Hour[2]		Reference Noise Level (dBA L_{eq}) @ 50 Feet	Sound Power Level (dBA)[3]
		Day	Night		
Loading Dock Activity	8'	60	60	62.8	103.4
Roof-Top Air Conditioning Units	5'	39	28	57.2	88.9
Trash Enclosure Activity	5'	60	30	57.3	89.0
Parking Lot Vehicle Movements	5'	60	60	52.6	81.1
Truck Movements	8'	60	60	59.8	93.2

[1] As measured by Urban Crossroads, Inc.
[2] Anticipated duration (minutes within the hour) of noise activity during typical hourly conditions expected at the Project site. "Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.
[3] Sound power level represents the total amount of acoustical energy (noise level) produced by a sound source independent of distance or surroundings. Sound power levels calculated using the CadnaA noise model at the reference distance to the noise source. Numbers may vary due to size differences between point and area noise sources.

9.2.2 LOADING DOCK ACTIVITY

The reference loading dock activities are intended to describe the typical operational noise source levels associated with the Project. This includes truck idling, deliveries, backup alarms, unloading/loading, docking including a combination of tractor trailer semi-trucks, two-axle delivery trucks, and background forklift operations. At a uniform reference distance of 50 feet, Urban Crossroads collected a reference noise level of 62.8 dBA L_{eq}. The loading dock activity noise level measurement was taken over a fifteen-minute period and represents multiple noise sources taken from the center of activity. The reference noise level measurement includes employees unloading a docked truck container included the squeaking of the truck's shocks when weight was removed from the truck, employees playing music over a radio, as well as a forklift horn and backup alarm. In addition, during the noise level measurement a truck entered the loading dock area and proceeded to reverse and dock in a nearby loading bay, adding truck engine, idling, air brakes noise, in addition to on-going idling of an already docked truck. Loading dock activity is estimated during all the daytime, evening, and nighttime hours.

9.2.3 ROOF-TOP AIR CONDITIONING UNITS

The noise level measurements describe a single mechanical roof-top air conditioning unit. The reference noise level represents a Lennox SCA120 series 10-ton model packaged air conditioning unit. At the uniform reference distance of 50 feet, the reference noise levels are 57.2 dBA L_{eq}. Based on the typical operating conditions observed over a four-day measurement period, the roof-top air conditioning units are estimated to operate for and average 39 minutes per hour during the daytime hours, and 28 minutes per hour during the nighttime hours. These operating conditions reflect peak summer cooling requirements with measured temperatures approaching 96 degrees Fahrenheit (°F) with average daytime temperatures of 82°F. For this noise analysis, the air conditioning units are expected to be located on the roof of the Project buildings.

9.2.5 TRASH ENCLOSURE ACTIVITY

To describe the noise levels associated with a trash enclosure activity, Urban Crossroads collected a reference noise level measurement at an existing trash enclosure containing two dumpster bins. The trash enclosure noise levels describe metal gates opening and closing, metal scraping against concrete floor sounds, dumpster movement on metal wheels, and trash dropping into the metal dumpster. The reference noise levels describe trash enclosure noise activities when trash is dropped into an empty metal dumpster, as would occur at the Project Site. The measured reference noise level at the uniform 50-foot reference distance is 57.3 dBA L_{eq} for the trash enclosure activity. The reference noise level describes the expected noise source activities associated with the trash enclosures for the Project's proposed building.

9.2.6 PARKING LOT VEHICLE MOVEMENTS

To describe the on-site parking lot activity, a long-term 29-hour reference noise level measurement was collected in the center of activity within the staff parking lot of an Amazon warehouse distribution center. At 50 feet from the center of activity, the parking lot produced a reference noise level of 52.6 dBA L_{eq}. Parking activities are expected to take place during the full hour (60 minutes) throughout the daytime and evening hours. The parking lot noise levels are mainly due cars pulling in and out of parking spaces in combination with car doors opening and closing.

9.2.6 TRUCK MOVEMENTS

The truck movements reference noise level measurement was collected over a period of 1 hour and 28 minutes and represents multiple heavy trucks entering and exiting the outdoor loading dock area producing a reference noise level of 59.8 dBA L_{eq} at 50 feet. The noise sources included at this measurement location account for trucks entering and existing the Project driveways and maneuvering in and out of the outdoor loading dock activity area.

9.3 CADNAA NOISE PREDICTION MODEL

To fully describe the exterior operational noise levels from the Project, Urban Crossroads, Inc. developed a noise prediction model using the CadnaA (Computer Aided Noise Abatement) computer program. CadnaA can analyze multiple types of noise sources using the spatially accurate Project site plan, georeferenced Nearmap aerial imagery, topography, buildings, and barriers in its calculations to predict outdoor noise levels.

Using the ISO 9613-2 protocol, CadnaA will calculate the distance from each noise source to the noise receiver locations, using the ground absorption, distance, and barrier/building attenuation inputs to provide a summary of noise level at each receiver and the partial noise level contributions by noise source. Consistent with the ISO 9613-2 protocol, the CadnaA noise prediction model relies on the reference sound power level (L_w) to describe individual noise sources. While sound pressure levels (e.g., L_{eq}) quantify in decibels the intensity of given sound sources at a reference distance, sound power levels (L_w) are connected to the sound source and are independent of distance. Sound pressure levels vary substantially with distance from the source and diminish because of intervening obstacles and barriers, air absorption, wind, and

other factors. Sound power is the acoustical energy emitted by the sound source and is an absolute value that is not affected by the environment. The operational noise level calculations provided in this noise study account for the distance attenuation provided due to geometric spreading, when sound from a localized stationary source (i.e., a point source) propagates uniformly outward in a spherical pattern. A default ground attenuation factor of 0.5 was used in the CadnaA noise analysis to account for mixed ground representing a combination of hard and soft surfaces. Appendix 9.1 includes the detailed noise model inputs used to estimate the Project operational noise levels presented in this section.

9.4 PROJECT OPERATIONAL NOISE LEVELS

Using the reference noise levels to represent the proposed Project operations that include loading dock activity, roof-top air conditioning units, trash enclosure activity, parking lot vehicle movements, and truck movements, Urban Crossroads, Inc. calculated the operational source noise levels that are expected to be generated at the Project site and the Project-related noise level increases that would be experienced at each of the sensitive receiver locations. Table 9-2 shows the Project operational noise levels during the daytime hours of 7:00 a.m. to 10:00 p.m. The daytime hourly noise levels at the off-site receiver locations are expected to range from 31.9 to 47.5 dBA L_{eq}.

TABLE 9-2: DAYTIME PROJECT OPERATIONAL NOISE LEVELS

Noise Source[1]	Operational Noise Levels by Receiver Location (dBA Leq)			
	R1	R2	R3	R4
Loading Dock Activity	39.0	32.3	42.7	18.7
Roof-Top Air Conditioning Units	30.0	26.0	29.2	21.1
Trash Enclosure Activity	9.8	6.4	20.5	0.9
Parking Lot Vehicle Movements	30.5	25.5	30.6	15.4
Truck Movements	46.7	40.9	42.1	31.2
Total (All Noise Sources)	**47.5**	**41.7**	**45.7**	**31.9**

[1] See Exhibit 9-A for the noise source locations. CadnaA noise model calculations are included in Appendix 9.1.

Tables 9-3 shows the Project operational noise levels during the nighttime hours of 10:00 p.m. to 7:00 a.m. The nighttime hourly noise levels at the off-site receiver locations are expected to range from 31.8 to 47.5 dBA L_{eq}. The differences between the daytime and nighttime noise levels are largely related to the estimated duration of noise activity as outlined in Table 9-1 and Appendix 9.1.

TABLE 9-3: NIGHTTIME PROJECT OPERATIONAL NOISE LEVELS

Noise Source[1]	Operational Noise Levels by Receiver Location (dBA Leq)			
	R1	R2	R3	R4
Loading Dock Activity	39.0	32.3	42.7	18.7
Roof-Top Air Conditioning Units	27.6	23.6	26.8	18.7
Trash Enclosure Activity	5.8	2.4	16.6	0.0
Parking Lot Vehicle Movements	30.5	25.5	30.6	15.4
Truck Movements	46.7	40.9	42.1	31.2
Total (All Noise Sources)	**47.5**	**41.6**	**45.6**	**31.8**

[1] See Exhibit 9-A for the noise source locations. CadnaA noise model calculations are included in Appendix 9.1.

9.5 PROJECT OPERATIONAL NOISE LEVEL COMPLIANCE

To demonstrate compliance with local noise regulations, the Project-only operational noise levels are evaluated against exterior noise level thresholds based on the City of San Bernardino exterior noise level standards at nearby noise-sensitive receiver locations. Table 9-4 shows the operational noise levels associated with Gateway South 9 Warehouse Project will satisfy the City of San Bernardino exterior noise level standards. Therefore, the operational noise impacts are considered *less than significant* at the nearby noise-sensitive receiver locations.

TABLE 9-4: OPERATIONAL NOISE LEVEL COMPLIANCE

Receiver Location[1]	Project Operational Noise Levels (dBA Leq)[2]		Noise Level Standards (dBA Leq)[3]		Noise Level Standards Exceeded?[4]	
	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime
R1	47.5	47.5	65	65	No	No
R2	41.7	41.6	65	65	No	No
R3	45.7	45.6	65	65	No	No
R4	31.9	31.8	65	65	No	No

[1] See Exhibit 8-A for the receiver locations.
[2] Proposed Project operational noise levels as shown on Tables 9-2 and 9-3.
[3] Exterior noise level standards, as shown on Table 4-1.
[4] Do the estimated Project operational noise source activities exceed the noise level standards?
"Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

9.5 PROJECT OPERATIONAL NOISE LEVEL INCREASES

To describe the Project operational noise level increases, the Project operational noise levels are combined with the existing ambient noise levels measurements for the nearby receiver locations potentially impacted by Project operational noise sources. Since the units used to measure noise, decibels (dB), are logarithmic units, the Project-operational and existing ambient noise levels cannot be combined using standard arithmetic equations. (2) Instead, they must be logarithmically added using the following base equation:

$$SPL_{Total} = 10\log_{10}[10^{SPL1/10} + 10^{SPL2/10} + \ldots 10^{SPLn/10}]$$

Where "SPL1," "SPL2," etc. are equal to the sound pressure levels being combined, or in this case, the Project-operational and existing ambient noise levels. The difference between the combined Project and ambient noise levels describes the Project noise level increases to the existing ambient noise environment. Noise levels that would be experienced at receiver locations when Project-source noise is added to the daytime and nighttime ambient conditions are presented on Tables 9-5 and 9-6, respectively. As indicated on Table 9-5, the Project will generate a daytime operational noise level increases ranging from 0.0 to 0.2 dBA L_{eq} at the nearest receiver locations. Table 9-6 shows that the Project will generate a nighttime operational noise level increases ranging from 0.0 to 0.3 dBA L_{eq} at the nearest receiver locations. Project-related operational noise level increases will not exceed the operational noise level increase significance criteria presented in Table 4-1, and, therefore, the increases at the sensitive receiver locations will be *less than significant.*

TABLE 9-5: DAYTIME PROJECT OPERATIONAL NOISE LEVEL INCREASES

Receiver Location[1]	Total Project Operational Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	47.5	L1	60.1	60.3	0.2	5.0	No
R2	41.7	L2	57.8	57.9	0.1	5.0	No
R3	45.7	L3	71.3	71.3	0.0	1.5	No
R4	31.9	L4	63.8	63.8	0.0	5.0	No

[1] See Exhibit 8-A for the receiver locations.
[2] Total Project daytime operational noise levels as shown on Table 9-2.
[3] Reference noise level measurement locations as shown on Exhibit 5-A.
[4] Observed daytime ambient noise levels as shown on Table 5-1.
[5] Represents the combined ambient conditions plus the Project activities.
[6] The noise level increase expected with the addition of the proposed Project activities.
[7] Significance increase criteria as shown on Table 4-1.

TABLE 9-6: NIGHTTIME OPERATIONAL NOISE LEVEL INCREASES

Receiver Location[1]	Total Project Operational Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	47.5	L1	59.1	59.4	0.3	5.0	No
R2	41.6	L2	57.6	57.7	0.1	5.0	No
R3	45.6	L3	68.9	68.9	0.0	1.5	No
R4	31.8	L4	62.4	62.4	0.0	5.0	No

[1] See Exhibit 8-A for the receiver locations.
[2] Total Project nighttime operational noise levels as shown on Table 9-3.
[3] Reference noise level measurement locations as shown on Exhibit 5-A.
[4] Observed nighttime ambient noise levels as shown on Table 5-1.
[5] Represents the combined ambient conditions plus the Project activities.
[6] The noise level increase expected with the addition of the proposed Project activities.
[7] Significance increase criteria as shown on Table 4-1.

10 CONSTRUCTION ANALYSIS

This section analyzes potential impacts resulting from the short-term construction activities associated with the development of the Project. Exhibit 10-A shows the construction activity boundaries in relation to the nearest sensitive receiver locations previously described in Section 10.

Section 8.54.070 the City of San Bernardino Municipal Code, provided in Appendix 3.1, indicates that construction activity is permitted between the hours within 7:00 a.m. and 8:00 p.m. However, neither the General Plan nor the Municipal Code establish numeric maximum acceptable construction source noise levels at potentially affected receivers for CEQA analysis purposes. Therefore, a numerical construction threshold based on Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual is used for analysis of daytime construction impacts. The FTA considers a daytime exterior construction noise level of 80 dBA L_{eq} as a reasonable threshold for noise sensitive residential land use with a nighttime exterior construction noise level of 70 dBA L_{eq} (8 p. 179).

10.1 CONSTRUCTION NOISE LEVELS

The FTA *Transit Noise and Vibration Impact Assessment Manual* recognizes that construction projects are accomplished in several different stages and outlines the procedures for assessing noise impacts during construction. Each stage has a specific equipment mix, depending on the work to be completed during that stage. As a result of the equipment mix, each stage has its own noise characteristics; some stages have higher continuous noise levels than others, and some have higher impact noise levels than others. The Project construction activities are expected to occur in the following stages:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

10.2 CONSTRUCTION REFERENCE NOISE LEVELS

To describe construction noise activities, this construction noise analysis was prepared using reference construction equipment noise levels from the Federal Highway Administration (FHWA) published the Roadway Construction Noise Model (RCNM), which includes a national database of construction equipment reference noise emission levels. (22) The RCNM equipment database, provides a comprehensive list of the noise generating characteristics for specific types of construction equipment. In addition, the database provides an acoustical usage factor to estimate the fraction of time each piece of construction equipment is operating at full power (i.e., its loudest condition) during a construction operation.

EXHIBIT 10-A: CONSTRUCTION NOISE SOURCE LOCATIONS



10.3 CONSTRUCTION NOISE ANALYSIS

Using the reference construction equipment noise levels and the CadnaA noise prediction model, calculations of the Project construction noise level impacts at the nearby sensitive receiver locations were completed. Consistent with FTA guidance for general construction noise assessment, Table 10-1 presents the combined construction reference noise levels for the loudest construction equipment, assuming they operate at the same time. As shown on Table 10-2, the construction noise levels are expected to range from 43.3 to 66.6 dBA L_{eq} at the nearby receiver locations. Appendix 10.1 includes the detailed CadnaA construction noise model inputs.

TABLE 10-1: CONSTRUCTION REFERENCE NOISE LEVELS

Construction Stage	Reference Construction Activity	Reference Noise Level @ 50 Feet (dBA L_{eq})[1]	Combined Noise Level (dBA L_{eq})[2]	Combined Sound Power Level (PWL)[3]
Demolition	Demolition Equipment	82	83	115
	Backhoes	74		
	Hauling Trucks	72		
Site Preparation	Crawler Tractors	78	80	112
	Hauling Trucks	72		
	Rubber Tired Dozers	75		
Grading	Graders	81	83	115
	Excavators	77		
	Compactors	76		
Building Construction	Cranes	73	81	113
	Tractors	80		
	Welders	70		
Paving	Pavers	74	83	115
	Paving Equipment	82		
	Rollers	73		
Architectural Coating	Cranes	73	77	109
	Air Compressors	74		
	Generator Sets	70		

[1] FHWA Roadway Construction Noise Model (RCNM).
[2] Represents the combined noise level for all equipment assuming they operate at the same time consistent with FTA Transit Noise and Vibration Impact Assessment guidance.
[3] Sound power level represents the total amount of acoustical energy (noise level) produced by a sound source independent of distance or surroundings. Sound power levels calibrated using the CadnaA noise model at the reference distance to the noise source.

TABLE 10-2: CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})						
	Demolition	Site Preparation	Grading	Building Construction	Paving	Architectural Coating	Highest Levels[2]
R1	59.2	56.2	59.2	57.2	59.2	53.2	59.2
R2	53.5	50.5	53.5	51.5	53.5	47.5	53.5
R3	66.6	63.6	66.6	64.6	66.6	60.6	66.6
R4	49.3	46.3	49.3	47.3	49.3	43.3	49.3

[1] Construction noise source and receiver locations are shown on Exhibit 10-A.
[2] Construction noise level calculations based on distance from the construction activity, which is measured from the Project site boundary to the nearest receiver locations. CadnaA construction noise model inputs are included in Appendix 10.1.

10.4 CONSTRUCTION NOISE LEVEL COMPLIANCE

To evaluate whether the Project will generate potentially significant short-term noise levels at nearest receiver locations, a construction-related daytime noise level threshold of 80 dBA L_{eq} is used as a reasonable threshold to assess the daytime construction noise level impacts. The construction noise analysis shows that the nearest receiver locations will not exceed the reasonable daytime 80 dBA L_{eq} significance threshold during Project construction activities as shown on Table 10-3. Therefore, the noise impacts due to Project construction noise are considered *less than significant* at all receiver locations.

TABLE 10-3: CONSTRUCTION NOISE LEVEL COMPLIANCE

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})		
	Highest Construction Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R1	59.2	80	No
R2	53.5	80	No
R3	66.6	80	No
R4	49.3	80	No

[1] Construction noise source and receiver locations are shown on Exhibit 10-A.
[2] Highest construction noise level calculations based on distance from the construction noise source activity to the nearest receiver locations as shown on Table 10-2.
[3] Construction noise level thresholds as shown on Table 4-1.
[4] Do the estimated Project construction noise levels exceed the construction noise level threshold?

10.5 NIGHTTIME CONCRETE POUR NOISE ANALYSIS

It is our understanding that nighttime concrete pouring activities will occur as a part of Project building construction activities. Nighttime concrete pouring activities are often used to support reduced concrete mixer truck transit times and lower air temperatures than during the daytime hours and are generally limited to the actual building pad area. Since the nighttime concrete pours will take place outside the permitted City of San Bernardino Municipal Code, Section 8.54.070 the City of San Bernardino Municipal Code, indicates that construction activity is restricted to the hours within 7:00 a.m. and 8:00 p.m. The Project Applicant will be required to obtain authorization for nighttime work from the City of San Bernardino. Any nighttime construction noise activities are evaluated against the FTA nighttime exterior construction noise level threshold of 70 dBA L_{eq} for noise sensitive residential land use (8 p. 179).

10.5.1 NIGHTTIME CONCRETE POUR REFERENCE NOISE LEVEL MEASUREMENTS

To estimate the noise levels due to nighttime concrete pour activities, sample reference noise level measurements were taken during a nighttime concrete pour at a construction site. Urban Crossroads, Inc. collected short-term nighttime concrete pour reference noise level measurements during the noise-sensitive nighttime hours between 1:00 a.m. to 2:00 a.m. at 27334 San Bernardino Avenue in the City of Redlands. The reference noise levels describe the expected concrete pour noise sources that may include concrete mixer truck movements and pouring activities, concrete paving equipment, rear mounted concrete mixer truck backup alarms, engine idling, air brakes, generators, and workers communicating/whistling.

To describe the nighttime concrete pour noise levels associated with the construction of the Gateway South 9 Warehouse, this analysis relies on reference sound pressure level of 67.7 dBA L_{eq} at 50 feet representing a sound power level of 100.3 dBA L_w. While the Project noise levels will depend on the actual duration of activities and specific equipment fleet in use at the time of construction, the reference sound power level of 100.3 dBA L_w is used to describe the expected Project nighttime concrete pour noise activities.

10.5.2 NIGHTTIME CONCRETE POUR NOISE LEVEL COMPLIANCE

As shown on Table 10-4, the noise levels associated with the nighttime concrete pour activities are estimated to range from 34.6 to 51.9 dBA $L_{eq.}$ The analysis shows that the unmitigated nighttime concrete pour activities will not exceed the FTA 70 dBA L_{eq} nighttime residential noise level threshold at all the nearest noise sensitive receiver locations. Therefore, the noise impacts due to Project construction nighttime concrete pour noise activity are considered *less than significant* at all receiver locations with prior authorization for nighttime work from the City of San Bernardino. Appendix 10.2 includes the CadnaA nighttime concrete pour noise model inputs.

TABLE 10-4: NIGHTTIME CONCRETE POUR NOISE LEVEL COMPLIANCE

Receiver Location[1]	Concrete Pour Construction Noise Levels (dBA L_{eq})		
	Exterior Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R1	44.5	70	No
R2	38.8	70	No
R3	51.9	70	No
R4	34.6	70	No

[1] Construction noise source and receiver locations are shown on Exhibit 10-A.
[2] Nighttime Concrete Pour noise model inputs are included in Appendix 10.2.
[3] Construction noise level thresholds as shown on Table 4-1.
[4] Do the estimated Project construction noise levels exceed the construction noise level threshold?

10.6 CONSTRUCTION VIBRATION ANALYSIS

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods employed. Operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Ground vibration levels associated with various types of construction equipment are summarized on Table 10-5. Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the potential for human response (annoyance) and building damage using the following vibration assessment methods defined by the FTA. To describe the vibration impacts the FTA provides the following equation: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

TABLE 10-5: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment	PPV (in/sec) at 25 feet
Small bulldozer	0.003
Jackhammer	0.035
Loaded Trucks	0.076
Large bulldozer	0.089
Vibratory Roller	0.210

Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual

Table 10-6 presents the expected Project related vibration levels at the nearby receiver locations. At distances ranging from 148 to 1,190 feet from Project construction activities, construction vibration velocity levels are estimated to range from 0.001 to 0.015 in/sec PPV. Based on maximum acceptable continuous vibration threshold of 0.3 PPV (in/sec), the typical Project construction vibration levels will fall below the building damage thresholds at all the noise sensitive receiver locations. Therefore, the Project-related vibration impacts are considered *less than significant* during typical construction activities at the Project site.

TABLE 10-6: PROJECT CONSTRUCTION VIBRATION LEVELS

Location[1]	Distance to Const. Activity (Feet)[2]	Typical Construction Vibration Levels PPV (in/sec)[3]						Thresholds PPV (in/sec)[4]	Thresholds Exceeded?[5]
		Small bulldozer	Jackhammer	Loaded Trucks	Large bulldozer	Vibratory Roller	Highest Vibration Level		
R1	493'	0.000	0.000	0.001	0.001	0.002	0.002	0.3	No
R2	1,033'	0.000	0.000	0.000	0.000	0.001	0.001	0.3	No
R3	148'	0.000	0.002	0.005	0.006	0.015	0.015	0.3	No
R4	1,190'	0.000	0.000	0.000	0.000	0.001	0.001	0.3	No

[1] Construction noise source and receiver locations are shown on Exhibit 10-A.
[2] Distance from receiver building facade to Project construction boundary (Project site boundary).
[3] Based on the Vibration Source Levels of Construction Equipment (Table 10-5).
[4] Caltrans Transportation and Construction Vibration Guidance Manual, April 2020, Table 19, p. 38.
[5] Does the peak vibration exceed the acceptable vibration thresholds?
"PPV" = Peak Particle Velocity

Moreover, the vibration levels reported at the sensitive receiver locations are unlikely to be sustained during the entire construction period but will occur rather only during the times that heavy construction equipment is operating adjacent to the Project site perimeter.

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11 REFERENCES

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2. **California Department of Transportation Environmental Program.** *Technical Noise Supplement - A Technical Supplement to the Traffic Noise Analysis Protocol.* Sacramento, CA : s.n., September 2013.
3. **Environmental Protection Agency Office of Noise Abatement and Control.** *Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety.* March 1974. EPA/ONAC 550/9/74-004.
4. **U.S. Department of Transportation, Federal Highway Administration, Office of Environment and Planning, Noise and Air Quality Branch.** *Highway Traffic Noise Analysis and Abatement Policy and Guidance.* December 2011.
5. **U.S. Department of Transportation Federal Highway Administration.** *Highway Noise Barrier Design Handbook.* 2001.
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8. **U.S. Department of Transportation, Federal Transit Administration.** *Transit Noise and Vibration Impact Assessment Manual.* September 2018.
9. **Office of Planning and Research.** *State of California General Plan Guidlines.* October 2019.
10. **City of San Bernardino.** *General Plan, Noise Element.* November 2005.
11. **California Department of Transportation.** *Transportation and Construction Vibration Guidance Manual.* April 2020.
12. **San Bernardino International Airport Authority.** *Final Environmental Assessment - Eastgate Air Cargo Facility.* December 2019.
13. **California Court of Appeal.** *Gray v. County of Madera, F053661.* 167 Cal.App.4th 1099; - Cal.Rptr.3d, October 2008.
14. **Federal Interagency Committee on Noise.** *Federal Agency Review of Selected Airport Noise Analysis Issues.* August 1992.
15. **California Department of Transportation.** *Technical Noise Supplement.* November 2009.
16. **American National Standards Institute (ANSI).** *Specification for Sound Level Meters ANSI S1.4-2014/IEC 61672-1:2013.*
17. **U.S. Department of Transportation, Federal Highway Administration.** *FHWA Highway Traffic Noise Prediction Model.* December 1978. FHWA-RD-77-108.
18. **California Department of Transportation Environmental Program, Office of Environmental Engineering.** *Use of California Vehicle Noise Reference Energy Mean Emission Levels (Calveno REMELs) in FHWA Highway Traffic Noise Prediction.* September 1995. TAN 95-03.
19. **California Department of Transportation.** *Traffic Noise Attenuation as a Function of Ground and Vegetation Final Report.* June 1995. FHWA/CA/TL-95/23.
20. **Translutions, Inc.** *Gateway South 9 Warehouse Traffic Impact Analysis.* December 2022.

21. **U.S. Department of Transportation, Federal Highway Administration, Office of Environment and Planning.** *FHWA Roadway Construction Noise Model.* January, 2006.

12 CERTIFICATIONS

The contents of this noise study report represent an accurate depiction of the noise environment and impacts associated with the proposed Gateway South 9 Warehouse Project. The information contained in this noise study report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 584-3148.

Bill Lawson, P.E., INCE
Principal
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Newport Beach, CA 92658
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EDUCATION

Master of Science in Civil and Environmental Engineering
California Polytechnic State University, San Luis Obispo • December, 1993

Bachelor of Science in City and Regional Planning
California Polytechnic State University, San Luis Obispo • June, 1992

PROFESSIONAL REGISTRATIONS

PE – Registered Professional Traffic Engineer – TR 2537 • January, 2009
AICP – American Institute of Certified Planners – 013011 • June, 1997–January 1, 2012
PTP – Professional Transportation Planner • May, 2007 – May, 2013
INCE – Institute of Noise Control Engineering • March, 2004

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America
ITE – Institute of Transportation Engineers

PROFESSIONAL CERTIFICATIONS

Certified Acoustical Consultant – County of San Diego • March, 2018
Certified Acoustical Consultant – County of Orange • February, 2011
FHWA-NHI-142051 Highway Traffic Noise Certificate of Training • February, 2013

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APPENDIX 3.1:

CITY OF SAN BERNARDINO MUNICIPAL CODE

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Chapter 8.54
NOISE CONTROL

Sections:

8.54.010 Purpose and Intent
8.54.020 Prohibited Acts
8.54.030 Issuance of Written Notice and Impoundment
8.54.040 Cost Recovery for Second Response
8.54.050 Controlled Hours of Operation
8.54.060 Exemptions
8.54.070 Disturbances From Construction Activity
8.54.080 Violation - Penalty
8.54.090 Severability

8.54.010 Purpose and Intent

A. It is the purpose and intent of these regulations to establish community-wide noise standards. It is further the purpose of these regulations to recognize that the existence of excessive noise within the City is a condition which is detrimental to the health, safety, welfare, and quality of life of the citizens and shall be regulated in the public interest.

B. In furtherance of the foregoing purpose, it is found and declared as follows:

1. The making, creation, or maintenance of such loud, unnecessary, unnatural, or unusual noises that are prolonged, unusual, annoying, disturbing and unnatural in their time, place, and use are a detriment to public health, comfort, convenience, safety, general welfare, and the peace and quiet of the City and its inhabitants; and

2. The public interest and necessity of the provisions and prohibitions hereinafter contained and enacted is declared as a matter of legislative determination and public policy, and it is further declared that the provisions and prohibitions hereinafter contained and enacted are in pursuance of, and for thepurpose of, securing and promoting the public health, comfort, convenience, safety, general welfare and property, and the peace and quiet of the City and its inhabitants.

(Ord. MC-1246, 5-23-07; Ord. 1925, 11-06-51)

8.54.020 Prohibited Acts

It shall be unlawful for any person to engage in the following activities:

A. Sounding any horn or signal device on any automobile, motorcycle, bus, or other motor vehicle in any other manner or circumstances or for any other purpose than required or permitted by the California Vehicle Code, or other laws, for an unnecessary or unreasonable period of time;

B. Racing the engine of any motor vehicle while the vehicle is not in motion, except when necessary to do so in the course of repairing, adjusting, or testing the same.

C. Operating or permitting the use of any motor vehicle on any public right-of-way or public place or on private property within a residential zone for which the exhaust muffler, intake muffler, or any other noise abatement device has been modified or changed in a manner such that the noise emitted by the motor vehicle is increased above that emitted by the vehicle as originally manufactured.

D. Using, operating, or permitting to be played, used or operated any radio receiving set, musical instrument, phonograph, or other sound amplification or production equipment for producing or reproducing sound in such a manner as to disturb the peace, quiet, or comfort of neighboring persons, or at any time with louder volume than is necessary for the convenient hearing of the person or persons who are in the room, vehicle, or other enclosure in which such machine or device is operated, and who are voluntary listeners thereto and that is:

   1. Plainly audible across property boundaries;

   2. Plainly audible through partitions common to two residences within a building;

   3. Plainly audible at a distance of 50 feet in any direction from the source of the music or sound between the hours of 8:00 a.m. and 10:00 p.m.; or

   4. Plainly audible at a distance of 25 feet in any direction from the source of the music or sound between the hours of 10:00 p.m. and 8:00 a.m.

E. The intentional sounding or permitting the sounding outdoors of any fire, burglar, or civil defense alarm, siren, whistle, or any motor vehicle burglar alarm, except for emergency purposes or for testing, unless such alarm is terminated within fifteen minutes of activation.

F. Yelling, shouting, whistling, or singing in a loud and boisterous manner on the public streets so as to disturb the quiet, comfort, or repose of persons in any office, dwelling, hotel, or other type of residence, or neighborhood.

G. The keeping of any animal, fowl, or bird which by causing frequent or long continued noise disturbs the comfort, quiet, or repose of any person or neighborhood.

H. The unnecessary or excessive blowing of whistles, sounding of horns, ringing of bells, or use of signaling devices by operators of trains, motor trucks, and other transportation equipment.

I. The creation of loud and excessive noise in connection with the loading or unloading of motor trucks and other vehicles.

J. The shouting and crying of peddlers, hawkers, and vendors which disturbs the peace and quiet of any considerable number of persons or neighborhood.

K. The doing of automobile, automotive body or fender repair work, or other work on metal objects and metal parts in a residential district so as to cause loud and excessive noise which disturbs the peace, quiet, and repose of any person occupying adjoining or closely situated property or neighborhood.

L. The operation or use between the hours of 10:00 p.m. and 8:00 a.m. of any pile driver, steam shovel, pneumatic hammers, derrick, steam or electric hoist, power driven saw, or any other tool or apparatus, the use of which is attended by loud and excessive noise, except with the approval of the City.

M. Creating excessive noise adjacent to any school, church, court, or library while the same is in use, or adjacent to any hospital or care facility, which unreasonably interferes with the workings of such institution, or which disturbs or unduly annoys patients in the hospital, provided conspicuous signs are displayed in such streets indicating the presence of a school, institution of learning, church, court, or hospital.

N. Making or knowingly and unreasonably permitting to be made any unreasonably loud, unnecessary, or unusual noise that disturbs the comfort, repose, health, peace and quiet, or which causes discomfort or annoyance to any reasonable person of normal sensitivity. The characteristics and conditions that may be considered in determining whether this section has been violated include, but are not limited to, the following:

1. The level of noise;

2. The level of background noise;

3. The proximity of the noise to sleeping facilities;

4. The nature and zoning of the areas within which the noise emanates;

5. The density of the inhabitation of the area within which the noise emanates;

6. The time of day or night the noise occurs;

7. The duration of the noise;

8. Whether the noise is recurrent, intermittent, or constant; and

9. Whether the noise is produced by a commercial or noncommercial activity.

(Ord. MC-1246, 5-23-07; Ord. 2102, 4-03-56; Ord. 1925, 11-06-51)

8.54.030 Issuance of Written Notice and Impoundment

A. Any officer who encounters a violation of this section may issue a written notice to the Responsible Person demanding immediate abatement of the violation. The written notice shall inform the recipient that a second violation of the same provision within a seventy two (72) hour period may result in the issuance of a criminal citation, the imposition of criminal and civil penalties, and confiscation and impoundment, as evidence, of the components that are amplifying or transmitting the prohibited noise.

1. Responsible Person means (a) any person who owns, leases, or is lawfully in charge of the property or motor vehicle where the noise violation takes place, or (b) any person who owns or controls the source of the noise or violation. If the Responsible Person is a minor, then the parent or guardian who has custody of the child at the time of the violation shall be the Responsible Person who is liable under this chapter.

B. Any officer who encounters a second violation of this chapter within a seventy two (72) hour period following the issuance of a written notice is empowered to confiscate and impound, as evidence, any or all of the components amplifying or transmitting the sound. The immediate confiscation of a motor vehicle to which a component is attached may be made if the same may not be removed without causing harm to the vehicle or component.

C. Any person claiming legal ownership of the items confiscated and impounded under this chapter may request the return of the item by filing a written request with the police department within seven (7) calendar days of the confiscation. Such requests shall be processed in accordance with the procedures adopted by the department.

(Ord. MC-1246, 5-23-07; Ord. MC-649, 1-04-89; Ord. 1925, 11-06-51)

8.54.040 Cost Recovery for Second Response

A. Whenever any officer issues a written notice to a responsible person to discontinue a noise violation, the Responsible Person shall be liable for the actual cost of each subsequent response required to abate the violation within seventy two (72) hours of the issuance of the written warning.

B. The bill for the response charge shall be served upon the Responsible Person within thirty (30) days after the violation. If the Responsible Person has no last known business or residence address, the location of the violation shall be deemed to be the proper address for service. The bill shall include a notice of the right of the person being charged to request a hearing to dispute the imposition of the response charge or the amount of the charge.

C. The response charge shall be deemed to be a civil debt to the City.

(Ord. MC-1246, 5-23-07; Ord. MC-460, 5-15-85; Ord. 1925, 11-06-51)

8.54.050 Controlled Hours of Operation

It shall be unlawful for any person to engage in the following activities other than between the hours of 8:00 a.m. and 8:00 p.m. in residential zones and other than between the hours of 7:00 a.m. and 8:00 p.m. in all other zones:

A. Operate or permit the use of powered model vehicles and planes.

B. Load or unload any vehicle, or operate or permit the use of dollies, carts, forklifts, or other wheeled equipment that causes any impulsive sound, raucous, or unnecessary noise within one thousand (1,000) feet of a residence.

C. Operate or permit the use of domestic power tools, or machinery or any other equipment or tool in any garage, workshop, house, or any other structure.

D. Operate or permit the use of gasoline or electric powered leaf blowers, such as commonly used by gardeners and other persons for cleaning lawns, yards, driveways, gutters, and other property.

E. Operate or permit the use of privately operated street/parking lot sweepers or vacuums, except that emergency work and/or work necessitated by unusual conditions may be performed with the written consent of the City Manager.

F. Operate or permit the use of electrically operated compressor, fan, and other similar devices.

G. Operate or permit the use of any motor vehicle with a gross vehicle weight rating in excess of ten thousand (10,000) pounds, or of any auxiliary equipment attached to such a vehicle, including, but not limited to, refrigerated truck compressors for a period longer than fifteen (15) minutes in any hour while the vehicle is stationary and on a public right-of-way or public space except when movement of said vehicle is restricted by other traffic.

H. Repair, rebuild, reconstruct, or dismantle any motor vehicle or other mechanical equipment or devices in a manner so as to be plainly audible across property lines.

(Ord. MC-1246, 5-23-07)

8.54.060 Exemptions

The following activities and noise sources shall be exempt from the provisions of this chapter:

A. The use of horns, sirens, or other signaling or warning devices by persons vested with legal authority to use the same, and in pursuit of their lawful duties, such as on ambulances, fire, police, or other governmental or official equipment.

B. Such noises as are an accompaniment and effect of a lawful business, commercial or industrial enterprise carried on in an area zoned for that purpose, except where there is evidence that such noise is a nuisance and that such a nuisance is a result of the employment of unnecessary and injurious methods of operation.

C. Activities conducted on the grounds of any public or private school during regular hours of operation.

D. Outdoor gatherings, public dances, shows, and sporting and entertainment events provided said events are authorized by the City.

E. Activities conducted at public spaces during regular hours of operation.

F. Any mechanical devices, apparatus, or equipment used, related to, or connected with emergency machinery, vehicle, or work.

G. Construction, repair, or excavation necessary for the immediate preservation of life or property.

H. Construction, operation, maintenance, and repairs of equipment, apparatus, or facilities of park and recreation departments, public work projects, or essential public services and facilities, including, but not limited to, trash collection and those of public utilities subject to the regulatory jurisdiction of the California Public Utilities Commission.

I. Construction, repair, or excavation work performed pursuant to a valid written agreement with the City, or any of its political subdivisions, which provides for noise mitigation measures.

J. Any activity to the extent that regulation thereof has been preempted by State or Federal law.

K. Sounds generated in connection with speech or communication protected by the United States Constitution or the California Constitution, except to the extent such sounds are subject to permissible time, place, and manner restrictions.

(Ord. MC-1246, 5-23-07)

8.54.070 Disturbances from Construction Activity

No person shall be engaged or employed, or cause any other person to be engaged or employed, in any work of construction, erection, alteration, repair, addition, movement, demolition, or improvement to any building or structure except within the hours of 7:00 a.m. and 8:00 p.m.

(Ord. MC-1246, 5-23-07)

8.54.080 Violation - Penalty

Any person violating any of the provisions of this Chapter is guilty of an infraction or a misdemeanor, which upon conviction thereof is punishable in accordance with the provisions of Section 1.12.010 of this code.

(Ord. MC-1246, 5-23-07)

8.54.090 Severability

The provisions of this Chapter are severable, and, if any sentence, section or other part of this Chapter should be found to be invalid, such invalidity shall not affect the remaining provisions, and the remaining provisions shall continue in full force and effect.

(Ord. MC-1246, 5-23-07)

[Return to Municipal Code Contents]

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APPENDIX 5.1:

STUDY AREA PHOTOS

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JN:14882



14882_L1_A 1.North
34, 4' 53.930000"117, 15' 54.000000"



14882_L1_A 2.South
34, 4' 53.770000"117, 15' 53.970000"



14882_L1_A 3.East
34, 4' 53.790000"117, 15' 54.160000"



14882_L1_A 4.West
34, 4' 53.790000"117, 15' 54.220000"

JN:14882



14882_L2_B 1.North
34, 4' 59.420000"117, 15' 50.230000"



14882_L2_B 2.South
34, 4' 59.390000"117, 15' 50.290000"



14882_L2_B 3.East
34, 4' 59.360000"117, 15' 50.210000"



14882_L2_B 4.West
34, 4' 59.390000"117, 15' 50.450000"

JN:14882



14882_L3_C 1.North
34, 4' 46.550000"117, 16' 8.940000"



14882_L3_C 2.South
34, 4' 46.540000"117, 16' 8.910000"



14882_L3_C 3.East
34, 4' 46.560000"117, 16' 8.800000"



14882_L3_C 4.West
34, 4' 46.560000"117, 16' 8.880000"

JN:14882



14882_L4_D 1.North
34, 4' 53.490000"117, 16' 33.800000"



14882_L4_D 2.South
34, 4' 53.420000"117, 16' 33.740000"



14882_L4_D 3.East
34, 4' 53.420000"117, 16' 33.690000"



14882_L4_D 4.West
34, 4' 53.400000"117, 16' 33.690000"

APPENDIX 5.2:

NOISE LEVEL MEASUREMENT WORKSHEETS

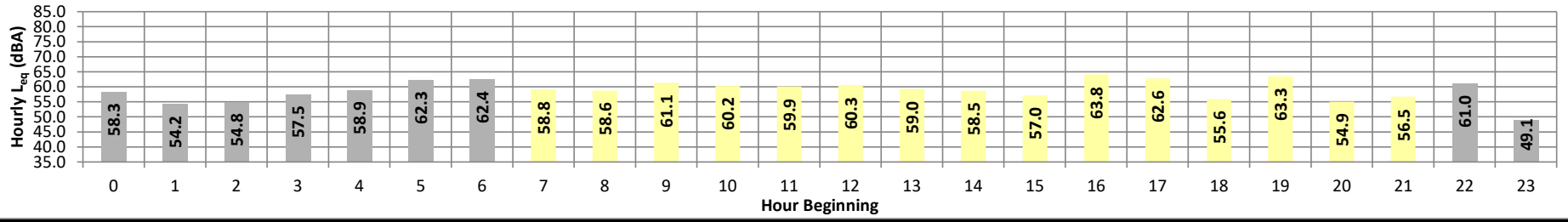
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24-Hour Noise Level Measurement Summary

Date: Wednesday, November 30, 2022 *Location:* L1 - Located northeast of the project site near the single- *Meter:* Piccolo II *JN:* 14882

Project: Gateway South Building 9 *Source:* family residence at 948 Norman Rd. *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	58.3	67.3	50.9	67.1	66.6	65.0	63.2	58.2	54.6	51.3	51.2	51.0	58.3	10.0	68.3
	1	54.2	63.2	49.2	62.9	62.3	60.3	58.2	53.8	51.1	49.8	49.6	49.3	54.2	10.0	64.2
	2	54.8	62.7	49.8	62.3	61.7	60.4	59.3	54.7	51.9	50.3	50.1	49.8	54.8	10.0	64.8
	3	57.5	66.0	51.4	65.6	65.2	63.8	62.4	57.2	54.0	52.0	51.7	51.5	57.5	10.0	67.5
	4	58.9	66.9	53.8	66.3	65.4	63.4	62.5	59.5	57.1	54.5	54.2	53.9	58.9	10.0	68.9
	5	62.3	71.1	53.8	70.6	69.9	68.2	67.1	62.8	57.9	54.8	54.4	54.0	62.3	10.0	72.3
	6	62.4	71.2	54.8	70.7	70.1	68.8	67.8	62.0	58.0	55.4	55.1	54.9	62.4	10.0	72.4
Day	7	58.8	67.7	54.3	67.1	66.3	64.0	62.9	58.6	56.0	54.7	54.6	54.4	58.8	0.0	58.8
	8	58.6	66.6	51.0	66.1	65.7	64.6	63.7	59.8	54.2	51.6	51.3	51.1	58.6	0.0	58.6
	9	61.1	71.3	46.8	71.0	70.6	69.4	67.9	58.3	52.3	47.6	47.3	46.9	61.1	0.0	61.1
	10	60.2	70.0	47.1	69.7	69.0	67.4	65.6	60.5	52.7	48.1	47.6	47.2	60.2	0.0	60.2
	11	59.9	69.2	49.6	68.6	67.8	66.6	65.1	59.8	55.9	51.4	50.7	49.9	59.9	0.0	59.9
	12	60.3	72.5	48.9	71.9	70.9	67.5	64.6	58.3	54.6	50.4	49.8	49.1	60.3	0.0	60.3
	13	59.0	69.0	47.2	68.5	67.9	66.1	64.8	58.5	53.0	48.1	47.6	47.3	59.0	0.0	59.0
	14	58.5	71.8	47.1	70.4	68.6	65.4	62.2	56.6	52.9	48.2	47.7	47.2	58.5	0.0	58.5
	15	57.0	66.3	49.5	65.5	64.8	62.8	61.3	56.9	54.3	51.1	50.4	49.6	57.0	0.0	57.0
	16	63.8	71.9	52.6	71.5	71.0	69.7	69.1	64.9	59.9	55.1	54.3	52.9	63.8	0.0	63.8
	17	62.6	72.5	51.0	71.8	71.2	69.5	67.9	63.1	56.2	52.4	51.8	51.2	62.6	0.0	62.6
	18	55.6	64.2	49.2	63.7	63.3	62.0	60.3	55.4	53.1	50.2	49.8	49.4	55.6	0.0	55.6
	19	63.3	72.2	49.2	71.6	71.2	69.9	69.0	63.9	57.7	50.6	50.0	49.5	63.3	5.0	68.3
	20	54.9	63.8	49.3	63.3	62.5	60.2	58.7	54.9	52.4	50.1	49.8	49.4	54.9	5.0	59.9
	21	56.5	65.9	46.8	65.5	64.9	62.8	61.2	56.7	52.4	47.8	47.4	46.9	56.5	5.0	61.5
Night	22	61.0	69.8	43.2	69.5	69.3	68.5	67.1	61.2	50.2	43.7	43.5	43.2	61.0	10.0	71.0
	23	49.1	56.7	42.7	56.3	55.7	54.4	53.6	50.1	46.2	43.2	43.0	42.7	49.1	10.0	59.1

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	54.9	63.8	46.8	63.3	62.5	60.2	58.7	54.9	52.3	47.6	47.3	46.9
	Max	63.8	72.5	54.3	71.9	71.2	69.9	69.1	64.9	59.9	55.1	54.6	54.4
Energy Average		60.1	Average:		68.4	67.7	65.9	64.3	59.1	54.5	50.5	50.0	49.5
Night	Min	49.1	56.7	42.7	56.3	55.7	54.4	53.6	50.1	46.2	43.2	43.0	42.7
	Max	62.4	71.2	54.8	70.7	70.1	68.8	67.8	62.8	58.0	55.4	55.1	54.9
Energy Average		59.1	Average:		65.7	65.1	63.6	62.4	57.7	53.4	50.6	50.3	50.0

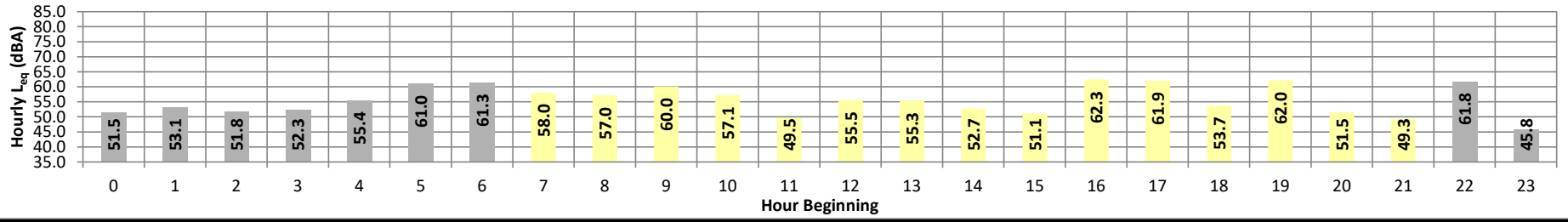
L_{eq} (dBA)		
24-Hour	Daytime (7am-10pm)	Nighttime (10pm-7am)
59.8	**60.1**	**59.1**

24-Hour Noise Level Measurement Summary

Date: Wednesday, November 30, 2022 *Location:* L2 - Located northeast of the project site near the single- *Meter:* Piccolo II *JN:* 14882

Project: Gateway South Building 9 *Source:* family residence at 984 Hope St. *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	51.5	56.0	48.7	55.7	55.4	54.4	54.0	52.1	50.6	49.2	49.0	48.7	51.5	10.0	61.5
	1	53.1	59.6	49.1	59.3	59.1	58.2	57.0	52.9	51.1	49.7	49.4	49.2	53.1	10.0	63.1
	2	51.8	54.9	49.8	54.6	54.3	53.7	53.4	52.4	51.5	50.3	50.1	49.9	51.8	10.0	61.8
	3	52.3	54.9	50.7	54.7	54.4	53.9	53.6	52.6	52.0	51.2	51.0	50.8	52.3	10.0	62.3
	4	55.4	60.3	52.7	60.0	59.6	58.8	58.3	56.3	54.2	53.1	53.0	52.8	55.4	10.0	65.4
	5	61.0	68.8	53.7	68.5	68.2	67.4	66.5	61.3	55.5	54.2	54.0	53.7	61.0	10.0	71.0
	6	61.3	69.8	54.6	69.4	69.0	67.8	66.7	60.9	57.1	55.0	54.9	54.7	61.3	10.0	71.3
Day	7	58.0	64.4	54.1	64.2	63.9	63.2	62.7	57.8	55.5	54.5	54.4	54.2	58.0	0.0	58.0
	8	57.0	64.4	49.9	64.1	63.9	62.8	62.1	58.1	52.1	50.3	50.1	50.0	57.0	0.0	57.0
	9	60.0	71.0	44.8	70.8	70.2	69.2	66.5	55.9	47.2	45.3	45.1	44.8	60.0	0.0	60.0
	10	57.1	67.3	43.4	67.0	66.8	65.8	64.5	51.6	47.9	44.1	43.9	43.5	57.1	0.0	57.1
	11	49.5	54.7	45.0	54.2	53.6	52.7	52.2	50.4	48.9	46.2	45.8	45.2	49.5	0.0	49.5
	12	55.5	62.8	45.6	62.5	62.1	61.1	60.4	56.8	51.9	46.9	46.3	45.8	55.5	0.0	55.5
	13	55.3	64.2	45.0	63.9	63.6	62.7	61.5	54.0	48.0	45.7	45.4	45.1	55.3	0.0	55.3
	14	52.7	60.3	43.3	59.9	59.5	58.7	58.1	53.5	48.6	44.3	43.9	43.5	52.7	0.0	52.7
	15	51.1	57.6	44.3	57.3	56.8	56.1	55.6	52.3	48.7	45.3	44.9	44.4	51.1	0.0	51.1
	16	62.3	70.6	46.7	70.4	70.3	69.7	69.0	62.5	53.7	47.8	47.3	46.8	62.3	0.0	62.3
	17	61.9	70.8	49.8	70.6	70.3	69.5	68.6	60.8	53.4	50.5	50.2	49.9	61.9	0.0	61.9
	18	53.7	61.1	48.4	60.6	60.0	58.6	58.0	54.5	51.1	49.0	48.8	48.5	53.7	0.0	53.7
	19	62.0	70.4	46.4	70.2	69.9	69.4	68.4	62.3	53.5	47.6	47.1	46.6	62.0	5.0	67.0
	20	51.5	59.6	45.7	59.0	58.4	57.2	56.2	50.9	48.7	46.5	46.2	45.8	51.5	5.0	56.5
	21	49.3	55.4	42.7	55.1	54.7	54.0	53.5	51.2	46.6	43.4	43.2	42.9	49.3	5.0	54.3
Night	22	61.8	71.1	39.4	70.8	70.4	69.7	68.7	61.0	45.4	40.1	39.8	39.5	61.8	10.0	71.8
	23	45.8	53.1	38.3	52.8	52.4	52.0	51.3	46.6	42.2	38.8	38.6	38.4	45.8	10.0	55.8

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	49.3	54.7	42.7	54.2	53.6	52.7	52.2	50.4	46.6	43.4	43.2	42.9
	Max	62.3	71.0	54.1	70.8	70.3	69.7	69.0	62.5	55.5	54.5	54.4	54.2
Energy Average		57.8	Average:		63.3	62.9	62.1	61.2	55.5	50.4	47.2	46.8	46.5
Night	Min	45.8	53.1	38.3	52.8	52.4	52.0	51.3	46.6	42.2	38.8	38.6	38.4
	Max	61.8	71.1	54.6	70.8	70.4	69.7	68.7	61.3	57.1	55.0	54.9	54.7
Energy Average		57.6	Average:		60.6	60.3	59.5	58.8	55.1	51.1	49.1	48.9	48.6

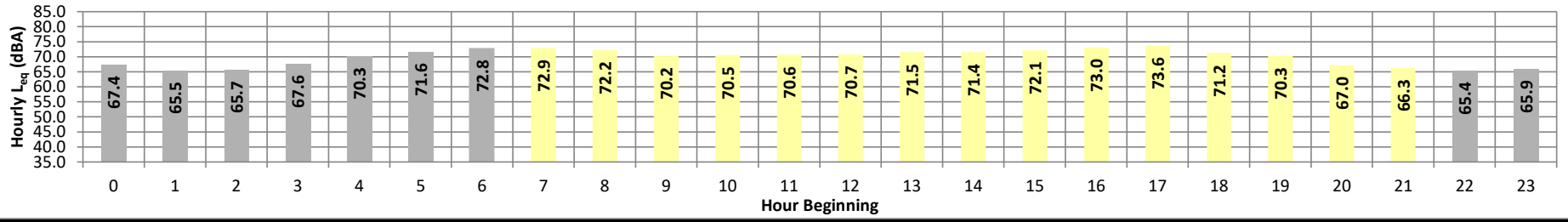
24-Hour	L_{eq} (dBA) Daytime (7am-10pm)	Nighttime (10pm-7am)
57.7	**57.8**	**57.6**

24-Hour Noise Level Measurement Summary

Date: Wednesday, November 30, 2022 *Location:* L3 - Located south of the project site near the single-family *Meter:* Piccolo II *JN:* 14882

Project: Gateway South Building 9 *Source:* residence at 755 Orange Show Rd. *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	67.4	78.3	54.6	77.8	76.9	74.1	72.1	67.0	62.0	56.1	55.4	54.8	67.4	10.0	77.4
	1	65.5	74.8	54.4	74.5	74.0	72.3	70.9	65.7	59.8	55.1	54.7	54.4	65.5	10.0	75.5
	2	65.7	74.7	53.8	74.4	74.1	72.7	71.3	65.8	61.0	54.8	54.3	53.9	65.7	10.0	75.7
	3	67.6	76.6	54.9	76.3	76.0	74.5	73.3	68.0	62.0	55.8	55.3	55.0	67.6	10.0	77.6
	4	70.3	79.1	56.6	78.8	78.4	76.3	75.2	71.3	66.0	58.2	57.3	56.7	70.3	10.0	80.3
	5	71.6	79.6	58.3	79.3	79.0	77.7	76.7	72.6	67.8	60.4	59.3	58.5	71.6	10.0	81.6
	6	72.8	81.1	60.4	80.8	80.4	78.7	77.7	73.7	69.4	62.3	61.4	60.6	72.8	10.0	82.8
Day	7	72.9	80.5	59.9	80.3	79.9	78.5	77.6	74.3	69.6	62.4	61.1	60.1	72.9	0.0	72.9
	8	72.2	80.2	58.3	79.8	79.3	77.7	76.7	73.4	69.4	61.0	59.6	58.5	72.2	0.0	72.2
	9	70.2	78.6	55.9	78.3	77.8	76.2	75.2	71.3	66.7	58.4	57.3	56.2	70.2	0.0	70.2
	10	70.5	79.7	54.4	79.4	79.0	76.9	75.6	71.2	66.1	56.9	55.7	54.6	70.5	0.0	70.5
	11	70.6	78.6	55.8	78.2	77.8	76.5	75.6	71.8	67.4	58.8	57.3	56.1	70.6	0.0	70.6
	12	70.7	78.4	57.8	78.1	77.7	76.3	75.3	72.0	68.1	60.5	59.3	58.0	70.7	0.0	70.7
	13	71.5	78.5	59.4	78.2	77.9	76.6	75.8	72.7	69.5	62.5	61.0	59.8	71.5	0.0	71.5
	14	71.4	78.6	58.9	78.3	78.0	76.7	75.7	72.7	69.3	62.4	60.5	59.2	71.4	0.0	71.4
	15	72.1	78.2	61.4	78.0	77.6	76.6	75.9	73.6	70.7	64.0	62.8	61.5	72.1	0.0	72.1
	16	73.0	79.4	62.7	79.1	78.6	77.5	76.8	74.3	71.5	65.6	64.2	62.9	73.0	0.0	73.0
	17	73.6	79.3	64.3	79.1	78.7	77.8	77.1	75.1	72.6	67.0	65.8	64.6	73.6	0.0	73.6
	18	71.2	78.7	57.3	78.4	78.0	76.5	75.7	72.6	68.8	60.3	58.9	57.4	71.2	0.0	71.2
	19	70.3	79.2	55.5	78.9	78.4	76.4	75.3	71.0	66.6	58.6	57.0	55.8	70.3	5.0	75.3
	20	67.0	76.0	52.2	75.7	75.3	73.8	72.6	67.6	62.0	53.6	52.8	52.3	67.0	5.0	72.0
	21	66.3	75.7	51.5	75.4	74.8	73.3	71.9	66.6	60.7	53.3	52.1	51.6	66.3	5.0	71.3
Night	22	65.4	75.4	50.0	75.1	74.7	72.7	70.8	65.3	59.2	51.1	50.6	50.1	65.4	10.0	75.4
	23	65.9	75.3	51.5	75.0	74.5	72.8	71.4	66.2	60.5	53.0	52.3	51.6	65.9	10.0	75.9

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	66.3	75.7	51.5	75.4	74.8	73.3	71.9	66.6	60.7	53.3	52.1	51.6
	Max	73.6	80.5	64.3	80.3	79.9	78.5	77.6	75.1	72.6	67.0	65.8	64.6
Energy Average		71.3	Average:		78.3	77.9	76.5	75.5	72.0	67.9	60.3	59.0	57.9
Night	Min	65.4	74.7	50.0	74.4	74.0	72.3	70.8	65.3	59.2	51.1	50.6	50.1
	Max	72.8	81.1	60.4	80.8	80.4	78.7	77.7	73.7	69.4	62.3	61.4	60.6
Energy Average		68.9	Average:		76.9	76.4	74.7	73.3	68.4	63.1	56.3	55.6	55.1

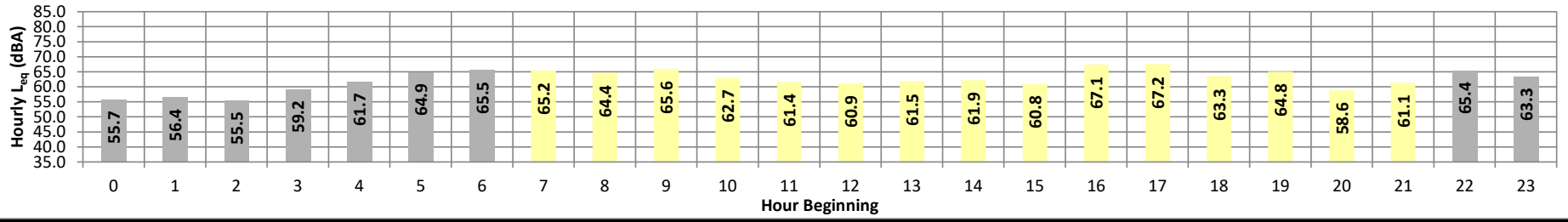
24-Hour	L_{eq} (dBA) Daytime (7am-10pm)	Nighttime (10pm-7am)
70.5	**71.3**	**68.9**

24-Hour Noise Level Measurement Summary

Date: Wednesday, November 30, 2022 *Location:* L4 - Located west of the project site near the single-family *Meter:* Piccolo II *JN:* 14882

Project: Gateway South Building 9 *Source:* residence at 434 Norman Rd. *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	55.7	62.3	52.0	62.0	61.7	60.9	60.0	56.0	53.5	52.5	52.3	52.1	55.7	10.0	65.7
	1	56.4	63.6	52.0	63.2	62.8	61.8	60.7	56.6	54.0	52.5	52.3	52.1	56.4	10.0	66.4
	2	55.5	62.7	52.4	62.5	62.0	60.3	58.7	55.1	53.8	52.8	52.6	52.5	55.5	10.0	65.5
	3	59.2	67.0	54.6	66.6	65.9	64.6	63.3	59.6	56.9	55.0	54.8	54.7	59.2	10.0	69.2
	4	61.7	68.8	57.2	68.5	68.1	67.0	65.9	61.7	59.1	57.7	57.5	57.3	61.7	10.0	71.7
	5	64.9	73.9	58.5	73.5	72.9	71.1	70.0	64.7	60.5	58.9	58.8	58.6	64.9	10.0	74.9
	6	65.5	72.1	61.6	71.9	71.7	70.6	69.7	65.9	63.1	62.0	61.8	61.7	65.5	10.0	75.5
Day	7	65.2	73.0	61.7	72.5	71.9	70.4	69.2	64.7	63.1	62.0	61.9	61.8	65.2	0.0	65.2
	8	64.4	72.2	58.5	71.5	71.1	69.8	69.1	64.8	61.6	59.1	58.8	58.6	64.4	0.0	64.4
	9	65.6	75.1	55.4	74.6	74.1	72.6	71.5	65.2	58.8	56.0	55.7	55.5	65.6	0.0	65.6
	10	62.7	71.5	52.3	71.0	70.6	69.5	68.4	63.3	56.5	53.2	52.8	52.4	62.7	0.0	62.7
	11	61.4	70.4	51.5	70.1	69.7	68.5	67.7	60.6	55.5	52.4	52.0	51.5	61.4	0.0	61.4
	12	60.9	70.4	50.4	70.1	69.6	68.2	66.9	60.2	54.3	51.0	50.8	50.5	60.9	0.0	60.9
	13	61.5	70.6	50.6	70.3	70.0	68.4	66.8	61.5	57.0	51.7	51.3	50.8	61.5	0.0	61.5
	14	61.9	71.9	50.6	71.6	70.9	69.3	67.8	60.8	55.3	51.5	51.1	50.7	61.9	0.0	61.9
	15	60.8	70.8	50.4	69.7	69.0	67.2	66.1	61.1	55.9	51.9	51.5	50.6	60.8	0.0	60.8
	16	67.1	76.0	53.2	75.7	75.3	74.0	72.8	67.4	61.0	54.8	54.1	53.4	67.1	0.0	67.1
	17	67.2	74.8	60.6	74.4	73.9	72.7	71.9	68.3	63.1	61.1	60.9	60.7	67.2	0.0	67.2
	18	63.3	71.8	55.0	71.3	70.9	69.8	68.6	64.0	58.6	55.7	55.4	55.1	63.3	0.0	63.3
	19	64.8	73.4	52.5	73.1	72.7	71.8	71.2	65.1	58.5	53.5	53.1	52.6	64.8	5.0	69.8
	20	58.6	67.1	50.3	66.8	66.4	65.0	63.7	58.9	54.5	50.9	50.7	50.4	58.6	5.0	63.6
	21	61.1	71.0	49.1	70.7	70.0	68.0	66.5	61.4	54.4	49.7	49.5	49.2	61.1	5.0	66.1
Night	22	65.4	73.8	51.3	73.4	73.0	72.2	71.4	66.2	58.7	52.5	51.9	51.4	65.4	10.0	75.4
	23	63.3	69.2	59.5	68.5	68.0	67.2	66.5	64.1	62.0	60.1	59.8	59.6	63.3	10.0	73.3

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	58.6	67.1	49.1	66.8	66.4	65.0	63.7	58.9	54.3	49.7	49.5	49.2
	Max	67.2	76.0	61.7	75.7	75.3	74.0	72.8	68.3	63.1	62.0	61.9	61.8
Energy Average		63.8	Average:		71.6	71.1	69.7	68.6	63.2	57.9	54.3	54.0	53.6
Night	Min	55.5	62.3	51.3	62.0	61.7	60.3	58.7	55.1	53.5	52.5	51.9	51.4
	Max	65.5	73.9	61.6	73.5	73.0	72.2	71.4	66.2	63.1	62.0	61.8	61.7
Energy Average		62.4	Average:		67.8	67.4	66.2	65.1	61.1	57.9	56.0	55.8	55.5

24-Hour	L_{eq} (dBA) Daytime (7am-10pm)	Nighttime (10pm-7am)
63.3	**63.8**	**62.4**

APPENDIX 7.1:

OFF-SITE TRAFFIC NOISE LEVEL CALCULATIONS

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FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E
Road Name: Lena Rd.
Road Segment: n/o Norman Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,790 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	179 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-9.61	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-25.14	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-23.18	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.5	57.8	53.9	50.3	58.7	59.0
Medium Trucks:	55.0	53.6	46.3	45.5	54.0	54.2
Heavy Trucks:	61.8	60.2	52.9	53.0	61.1	61.3
Vehicle Noise:	64.3	62.7	56.9	55.4	63.6	63.8

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	19	40	87	187
CNEL:	19	42	90	194

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E+P
Road Name: Lena Rd.
Road Segment: n/o Norman Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,860 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	186 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.54%
Medium Trucks:	85.8%	4.0%	10.2%	2.51%
Heavy Trucks:	84.1%	3.9%	12.0%	3.95%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-9.43	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-25.14	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-23.18	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.7	58.0	54.1	50.5	58.8	59.2
Medium Trucks:	55.0	53.6	46.3	45.5	54.0	54.2
Heavy Trucks:	61.8	60.2	52.9	53.0	61.1	61.3
Vehicle Noise:	64.4	62.8	56.9	55.4	63.7	63.9

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	19	41	88	189
CNEL:	20	42	91	196

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC
Road Name: Lena Rd.
Road Segment: n/o Norman Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,940 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	194 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-9.26	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-24.79	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-22.83	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.9	58.1	54.3	50.7	59.0	59.4
Medium Trucks:	55.4	53.9	46.6	45.9	54.4	54.6
Heavy Trucks:	62.1	60.6	53.3	53.4	61.5	61.7
Vehicle Noise:	64.7	63.1	57.2	55.7	63.9	64.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	20	43	92	197
CNEL:	20	44	95	205

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC+P
Road Name: Lena Rd.
Road Segment: n/o Norman Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	2,010 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	201 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.52%
Medium Trucks:	85.8%	4.0%	10.2%	2.52%
Heavy Trucks:	84.1%	3.9%	12.0%	3.96%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-9.10	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-24.79	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-22.83	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	60.0	58.3	54.4	50.8	59.2	59.6
Medium Trucks:	55.4	53.9	46.6	45.9	54.4	54.6
Heavy Trucks:	62.1	60.6	53.3	53.4	61.5	61.7
Vehicle Noise:	64.7	63.2	57.3	55.8	64.0	64.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	20	43	92	199
CNEL:	21	45	96	207

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E | *Project Name:* Gateway South 9
Road Name: Lena Rd. | *Job Number:* 14882
Road Segment: n/o Orange Show Rd.

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	2,610 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	261 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-7.97	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-23.50	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-21.54	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	61.1	59.4	55.6	52.0	60.3	60.7
Medium Trucks:	56.6	55.2	47.9	47.2	55.7	55.9
Heavy Trucks:	63.4	61.9	54.5	54.6	62.8	63.0
Vehicle Noise:	66.0	64.4	58.5	57.0	65.2	65.5

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	24	52	112	241
CNEL:	25	54	116	250

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E+P | *Project Name:* Gateway South 9
Road Name: Lena Rd. | *Job Number:* 14882
Road Segment: n/o Orange Show Rd.

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	2,754 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	275 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	92.68%
Medium Trucks:	85.8%	4.0%	10.2%	2.64%
Heavy Trucks:	84.1%	3.9%	12.0%	4.69%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-7.77	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-23.22	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-20.73	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	61.4	59.6	55.8	52.2	60.5	60.9
Medium Trucks:	56.9	55.5	48.2	47.5	55.9	56.1
Heavy Trucks:	64.2	62.7	55.4	55.5	63.6	63.8
Vehicle Noise:	66.5	64.9	59.0	57.6	65.8	66.0

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	26	57	122	262
CNEL:	27	59	126	272

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC | *Project Name:* Gateway South 9
Road Name: Lena Rd. | *Job Number:* 14882
Road Segment: n/o Orange Show Rd.

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	2,660 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	266 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-7.89	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-23.42	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-21.46	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	61.2	59.5	55.7	52.0	60.4	60.8
Medium Trucks:	56.7	55.3	48.0	47.3	55.7	55.9
Heavy Trucks:	63.5	62.0	54.6	54.7	62.9	63.0
Vehicle Noise:	66.1	64.5	58.6	57.1	65.3	65.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	24	53	113	244
CNEL:	25	54	117	253

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC+P | *Project Name:* Gateway South 9
Road Name: Lena Rd. | *Job Number:* 14882
Road Segment: n/o Orange Show Rd.

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	2,804 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	280 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	92.69%
Medium Trucks:	85.8%	4.0%	10.2%	2.64%
Heavy Trucks:	84.1%	3.9%	12.0%	4.68%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	68.46	-7.69	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	79.45	-23.15	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	84.25	-20.66	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	61.4	59.7	55.9	52.2	60.6	61.0
Medium Trucks:	57.0	55.5	48.3	47.5	56.0	56.2
Heavy Trucks:	64.3	62.7	55.4	55.5	63.7	63.8
Vehicle Noise:	66.6	65.0	59.0	57.6	65.9	66.1

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	27	57	123	265
CNEL:	28	59	128	275

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E
Road Name: Norman Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA		NOISE MODEL INPUTS	
Highway Data		***Site Conditions (Hard = 10, Soft = 15)***	
Average Daily Traffic (Adt):	430 vehicles	*Autos:*	15
Peak Hour Percentage:	10.00%	*Medium Trucks (2 Axles):*	15
Peak Hour Volume:	43 vehicles	*Heavy Trucks (3+ Axles):*	15
Vehicle Speed:	25 mph		
Near/Far Lane Distance:	20 feet		

Vehicle Mix

VehicleType	Day	Evening	Night	Daily
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Site Data		***Noise Source Elevations (in feet)***			
Barrier Height:	**0.0 feet**	*Autos:*	0.000		
Barrier Type (0-Wall, 1-Berm):	0.0	*Medium Trucks:*	2.297		
Centerline Dist. to Barrier:	30.0 feet	*Heavy Trucks:*	8.004	*Grade Adjustment:*	0.0
Centerline Dist. to Observer:	30.0 feet	***Lane Equivalent Distance (in feet)***			
Barrier Distance to Observer:	0.0 feet	*Autos:*	28.723		
Observer Height (Above Pad):	5.0 feet	*Medium Trucks:*	28.413		
Pad Elevation:	0.0 feet	*Heavy Trucks:*	28.443		
Road Elevation:	0.0 feet				
Road Grade:	0.0%				
Left View:	-90.0 degrees				
Right View:	90.0 degrees				

FHWA Noise Model Calculations

VehicleType	REMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos:	58.73	-13.25	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-28.78	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-26.82	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.8	46.1	42.2	38.6	46.9	47.3
Medium Trucks:	44.4	42.9	35.7	34.9	43.4	43.6
Heavy Trucks:	53.5	52.0	44.7	44.8	52.9	53.1
Vehicle Noise:	55.0	53.4	47.0	46.1	54.3	54.5

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn:	3	6	12	27
CNEL:	3	6	13	28

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E+P
Road Name: Norman Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA		NOISE MODEL INPUTS	
Highway Data		***Site Conditions (Hard = 10, Soft = 15)***	
Average Daily Traffic (Adt):	477 vehicles	*Autos:*	15
Peak Hour Percentage:	10.00%	*Medium Trucks (2 Axles):*	15
Peak Hour Volume:	48 vehicles	*Heavy Trucks (3+ Axles):*	15
Vehicle Speed:	25 mph		
Near/Far Lane Distance:	20 feet		

Vehicle Mix

VehicleType	Day	Evening	Night	Daily
Autos:	80.8%	8.3%	10.9%	93.94%
Medium Trucks:	85.8%	4.0%	10.2%	2.36%
Heavy Trucks:	84.1%	3.9%	12.0%	3.70%

Site Data		***Noise Source Elevations (in feet)***			
Barrier Height:	**0.0 feet**	*Autos:*	0.000		
Barrier Type (0-Wall, 1-Berm):	0.0	*Medium Trucks:*	2.297		
Centerline Dist. to Barrier:	30.0 feet	*Heavy Trucks:*	8.004	*Grade Adjustment:*	0.0
Centerline Dist. to Observer:	30.0 feet	***Lane Equivalent Distance (in feet)***			
Barrier Distance to Observer:	0.0 feet	*Autos:*	28.723		
Observer Height (Above Pad):	5.0 feet	*Medium Trucks:*	28.413		
Pad Elevation:	0.0 feet	*Heavy Trucks:*	28.443		
Road Elevation:	0.0 feet				
Road Grade:	0.0%				
Left View:	-90.0 degrees				
Right View:	90.0 degrees				

FHWA Noise Model Calculations

VehicleType	REMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos:	58.73	-12.77	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-28.78	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-26.82	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	48.3	46.6	42.7	39.1	47.4	47.8
Medium Trucks:	44.4	42.9	35.7	34.9	43.4	43.6
Heavy Trucks:	53.5	52.0	44.7	44.8	52.9	53.1
Vehicle Noise:	55.1	53.5	47.1	46.1	54.3	54.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn:	3	6	13	27
CNEL:	3	6	13	28

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC
Road Name: Norman Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA		NOISE MODEL INPUTS	
Highway Data		***Site Conditions (Hard = 10, Soft = 15)***	
Average Daily Traffic (Adt):	480 vehicles	*Autos:*	15
Peak Hour Percentage:	10.00%	*Medium Trucks (2 Axles):*	15
Peak Hour Volume:	48 vehicles	*Heavy Trucks (3+ Axles):*	15
Vehicle Speed:	25 mph		
Near/Far Lane Distance:	20 feet		

Vehicle Mix

VehicleType	Day	Evening	Night	Daily
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Site Data		***Noise Source Elevations (in feet)***			
Barrier Height:	**0.0 feet**	*Autos:*	0.000		
Barrier Type (0-Wall, 1-Berm):	0.0	*Medium Trucks:*	2.297		
Centerline Dist. to Barrier:	30.0 feet	*Heavy Trucks:*	8.004	*Grade Adjustment:*	0.0
Centerline Dist. to Observer:	30.0 feet	***Lane Equivalent Distance (in feet)***			
Barrier Distance to Observer:	0.0 feet	*Autos:*	28.723		
Observer Height (Above Pad):	5.0 feet	*Medium Trucks:*	28.413		
Pad Elevation:	0.0 feet	*Heavy Trucks:*	28.443		
Road Elevation:	0.0 feet				
Road Grade:	0.0%				
Left View:	-90.0 degrees				
Right View:	90.0 degrees				

FHWA Noise Model Calculations

VehicleType	REMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos:	58.73	-12.77	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-28.30	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-26.34	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	48.3	46.6	42.7	39.1	47.4	47.8
Medium Trucks:	44.9	43.4	36.2	35.4	43.9	44.1
Heavy Trucks:	54.0	52.5	45.1	45.2	53.4	53.5
Vehicle Noise:	55.4	53.9	47.4	46.5	54.7	54.9

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn:	3	6	13	29
CNEL:	3	6	14	30

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC+P
Road Name: Norman Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA		NOISE MODEL INPUTS	
Highway Data		***Site Conditions (Hard = 10, Soft = 15)***	
Average Daily Traffic (Adt):	527 vehicles	*Autos:*	15
Peak Hour Percentage:	10.00%	*Medium Trucks (2 Axles):*	15
Peak Hour Volume:	53 vehicles	*Heavy Trucks (3+ Axles):*	15
Vehicle Speed:	25 mph		
Near/Far Lane Distance:	20 feet		

Vehicle Mix

VehicleType	Day	Evening	Night	Daily
Autos:	80.8%	8.3%	10.9%	93.88%
Medium Trucks:	85.8%	4.0%	10.2%	2.38%
Heavy Trucks:	84.1%	3.9%	12.0%	3.74%

Site Data		***Noise Source Elevations (in feet)***			
Barrier Height:	**0.0 feet**	*Autos:*	0.000		
Barrier Type (0-Wall, 1-Berm):	0.0	*Medium Trucks:*	2.297		
Centerline Dist. to Barrier:	30.0 feet	*Heavy Trucks:*	8.004	*Grade Adjustment:*	0.0
Centerline Dist. to Observer:	30.0 feet	***Lane Equivalent Distance (in feet)***			
Barrier Distance to Observer:	0.0 feet	*Autos:*	28.723		
Observer Height (Above Pad):	5.0 feet	*Medium Trucks:*	28.413		
Pad Elevation:	0.0 feet	*Heavy Trucks:*	28.443		
Road Elevation:	0.0 feet				
Road Grade:	0.0%				
Left View:	-90.0 degrees				
Right View:	90.0 degrees				

FHWA Noise Model Calculations

VehicleType	REMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos:	58.73	-12.34	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-28.30	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-26.34	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	48.7	47.0	43.1	39.5	47.9	48.2
Medium Trucks:	44.9	43.4	36.2	35.4	43.9	44.1
Heavy Trucks:	54.0	52.5	45.1	45.2	53.4	53.5
Vehicle Noise:	55.5	53.9	47.6	46.6	54.8	55.0

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn:	3	6	14	29
CNEL:	3	6	14	30

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E
Road Name: Norman Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,230 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	123 vehicles
Vehicle Speed:	25 mph
Near/Far Lane Distance:	20 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	30.0 feet
Centerline Dist. to Observer:	30.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	28.723
Medium Trucks:	28.413
Heavy Trucks:	28.443

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	58.73	-8.69	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-24.22	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-22.25	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	52.4	50.6	46.8	43.2	51.5	51.9
Medium Trucks:	49.0	47.5	40.2	39.5	48.0	48.2
Heavy Trucks:	58.1	56.5	49.2	49.3	57.5	57.6
Vehicle Noise:	59.5	58.0	51.5	50.6	58.8	59.0

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	5	12	25	54
CNEL:	6	12	26	56

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E+P
Road Name: Norman Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,444 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	144 vehicles
Vehicle Speed:	25 mph
Near/Far Lane Distance:	20 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	30.0 feet
Centerline Dist. to Observer:	30.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	92.45%
Medium Trucks:	85.8%	4.0%	10.2%	2.54%
Heavy Trucks:	84.1%	3.9%	12.0%	5.01%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	28.723
Medium Trucks:	28.413
Heavy Trucks:	28.443

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	58.73	-8.03	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-23.65	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-20.69	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	53.0	51.3	47.4	43.8	52.2	52.5
Medium Trucks:	49.5	48.1	40.8	40.1	48.5	48.7
Heavy Trucks:	59.7	58.1	50.8	50.9	59.0	59.2
Vehicle Noise:	60.8	59.3	52.7	52.0	60.2	60.4

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	7	14	31	66
CNEL:	7	15	32	68

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC
Road Name: Norman Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,240 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	124 vehicles
Vehicle Speed:	25 mph
Near/Far Lane Distance:	20 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	30.0 feet
Centerline Dist. to Observer:	30.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	28.723
Medium Trucks:	28.413
Heavy Trucks:	28.443

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	58.73	-8.65	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-24.18	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-22.22	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	52.4	50.7	46.8	43.2	51.5	51.9
Medium Trucks:	49.0	47.5	40.3	39.5	48.0	48.2
Heavy Trucks:	58.1	56.6	49.3	49.4	57.5	57.7
Vehicle Noise:	59.6	58.0	51.6	50.7	58.9	59.1

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	5	12	25	54
CNEL:	6	12	26	56

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC+P
Road Name: Norman Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,454 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	145 vehicles
Vehicle Speed:	25 mph
Near/Far Lane Distance:	20 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	30.0 feet
Centerline Dist. to Observer:	30.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	92.46%
Medium Trucks:	85.8%	4.0%	10.2%	2.54%
Heavy Trucks:	84.1%	3.9%	12.0%	5.01%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	28.723
Medium Trucks:	28.413
Heavy Trucks:	28.443

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	58.73	-8.00	3.51	-1.20	*-4.49*	0.000	0.000
Medium Trucks:	70.80	-23.62	3.58	-1.20	*-4.86*	0.000	0.000
Heavy Trucks:	77.97	-20.66	3.57	-1.20	*-5.77*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	53.0	51.3	47.5	43.9	52.2	52.6
Medium Trucks:	49.6	48.1	40.8	40.1	48.6	48.8
Heavy Trucks:	59.7	58.1	50.8	50.9	59.1	59.2
Vehicle Noise:	60.9	59.3	52.8	52.0	60.2	60.4

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	7	14	31	66
CNEL:	7	15	32	69

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E
Road Name: Orange Show Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	430 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	43 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-16.26	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-31.79	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-29.83	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	54.6	52.9	49.0	45.4	53.8	54.1
Medium Trucks:	49.9	48.5	41.2	40.4	48.9	49.1
Heavy Trucks:	56.2	54.7	47.4	47.5	55.6	55.8
Vehicle Noise:	59.1	57.5	51.7	50.1	58.3	58.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	8	18	39	83
CNEL:	9	19	40	87

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E+P
Road Name: Orange Show Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	776 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	78 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	84.94%
Medium Trucks:	85.8%	4.0%	10.2%	3.38%
Heavy Trucks:	84.1%	3.9%	12.0%	11.69%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-14.11	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-28.11	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-22.72	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	56.8	55.0	51.2	47.6	55.9	56.3
Medium Trucks:	53.6	52.1	44.9	44.1	52.6	52.8
Heavy Trucks:	63.4	61.8	54.5	54.6	62.7	62.9
Vehicle Noise:	64.6	63.0	56.5	55.7	63.9	64.1

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	20	42	91	196
CNEL:	20	43	94	202

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC
Road Name: Orange Show Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	480 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	48 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-15.78	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-31.31	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-29.35	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	55.1	53.4	49.5	45.9	54.2	54.6
Medium Trucks:	50.4	48.9	41.7	40.9	49.4	49.6
Heavy Trucks:	56.7	55.2	47.9	48.0	56.1	56.3
Vehicle Noise:	59.6	58.0	52.2	50.6	58.8	59.1

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	9	19	42	90
CNEL:	9	20	43	93

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC+P
Road Name: Orange Show Rd.
Road Segment: w/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	826 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	83 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	85.44%
Medium Trucks:	85.8%	4.0%	10.2%	3.33%
Heavy Trucks:	84.1%	3.9%	12.0%	11.23%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-13.81	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-27.90	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-22.62	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	57.1	55.3	51.5	47.9	56.2	56.6
Medium Trucks:	53.8	52.3	45.1	44.3	52.8	53.0
Heavy Trucks:	63.5	61.9	54.6	54.7	62.8	63.0
Vehicle Noise:	64.7	63.2	56.6	55.8	64.0	64.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	20	43	93	200
CNEL:	21	44	96	206

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E
Road Name: Orange Show Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,230 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	123 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-11.70	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-27.23	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-25.26	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.2	57.4	53.6	50.0	58.3	58.7
Medium Trucks:	54.5	53.0	45.8	45.0	53.5	53.7
Heavy Trucks:	60.8	59.3	51.9	52.0	60.2	60.4
Vehicle Noise:	63.6	62.0	56.3	54.6	62.9	63.1

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	17	36	78	168
CNEL:	17	38	81	174

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: E+P
Road Name: Orange Show Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,467 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	147 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	90.17%
Medium Trucks:	85.8%	4.0%	10.2%	2.90%
Heavy Trucks:	84.1%	3.9%	12.0%	6.92%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-11.08	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-26.00	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-22.23	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.8	58.1	54.2	50.6	58.9	59.3
Medium Trucks:	55.7	54.2	47.0	46.2	54.7	54.9
Heavy Trucks:	63.8	62.3	55.0	55.1	63.2	63.4
Vehicle Noise:	65.7	64.2	58.0	56.8	65.0	65.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	23	50	108	233
CNEL:	24	52	112	241

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC
Road Name: Orange Show Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,240 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	124 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	93.28%
Medium Trucks:	85.8%	4.0%	10.2%	2.61%
Heavy Trucks:	84.1%	3.9%	12.0%	4.10%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-11.66	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-27.19	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-25.23	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.2	57.5	53.6	50.0	58.4	58.7
Medium Trucks:	54.5	53.1	45.8	45.0	53.5	53.7
Heavy Trucks:	60.8	59.3	52.0	52.1	60.2	60.4
Vehicle Noise:	63.7	62.1	56.3	54.7	62.9	63.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	17	36	78	169
CNEL:	18	38	81	175

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (9/12/2021)

Scenario: OYBC+P
Road Name: Orange Show Rd.
Road Segment: e/o Lena Rd.
Project Name: Gateway South 9
Job Number: 14882

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	1,477 vehicles
Peak Hour Percentage:	10.00%
Peak Hour Volume:	148 vehicles
Vehicle Speed:	50 mph
Near/Far Lane Distance:	68 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	50.0 feet
Centerline Dist. to Observer:	50.0 feet
Barrier Distance to Observer:	0.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	0.0 feet
Road Elevation:	0.0 feet
Road Grade:	0.0%
Left View:	-90.0 degrees
Right View:	90.0 degrees

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	80.8%	8.3%	10.9%	90.19%
Medium Trucks:	85.8%	4.0%	10.2%	2.90%
Heavy Trucks:	84.1%	3.9%	12.0%	6.91%

Noise Source Elevations (in feet)

Autos:	0.000		
Medium Trucks:	2.297		
Heavy Trucks:	8.004	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	37.000
Medium Trucks:	36.760
Heavy Trucks:	36.783

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	70.20	-11.05	1.86	-1.20	*-4.65*	0.000	0.000
Medium Trucks:	81.00	-25.97	1.90	-1.20	*-4.87*	0.000	0.000
Heavy Trucks:	85.38	-22.21	1.90	-1.20	*-5.43*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	59.8	58.1	54.2	50.6	59.0	59.4
Medium Trucks:	55.7	54.3	47.0	46.3	54.7	54.9
Heavy Trucks:	63.9	62.3	55.0	55.1	63.2	63.4
Vehicle Noise:	65.8	64.2	58.0	56.8	65.0	65.3

Centerline Distance to Noise Contour (in feet)

	70 dBA	*65 dBA*	*60 dBA*	*55 dBA*
Ldn:	23	50	108	234
CNEL:	24	52	112	242

APPENDIX 9.1:

CADNAA OPERATIONAL NOISE MODEL INPUTS

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14882 - Gateway South 9 Warehouse

CadnaA Noise Prediction Model: 14882-02.cna
Date: 12.12.22
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (#(Unit,LEN))	**2000.01**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (#(Unit,LEN))	**999.99**
Min. Length of Section (#(Unit,LEN))	**1.01**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Reference Time Day (min)	**960.00**
Reference Time Night (min)	**480.00**
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**0.00**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**100.00**
Search Radius Rcvr	**100.00**
Max. Distance Source - Rcvr	**1000.00 1000.00**
Min. Distance Rvcr - Reflector	**1.00 1.00**
Min. Distance Source - Reflector	**0.10**
Industrial (ISO 9613)	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (#(Unit,TEMP))	**10**
rel. Humidity (%)	**70**
Ground Absorption G	**0.50**
Wind Speed for Dir. (#(Unit,SPEED))	**3.0**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
RECEIVERS		R1	47.5	47.5	54.2	65.0	65.0	0.0				5.00	a	6254357.81	2338712.42	5.00
RECEIVERS		R2	41.7	41.6	48.3	65.0	65.0	0.0				5.00	a	6254774.25	2339112.05	5.00
RECEIVERS		R3	45.7	45.6	52.3	65.0	65.0	0.0				5.00	a	6253107.79	2337920.81	5.00
RECEIVERS		R4	32.0	31.8	38.5	65.0	65.0	0.0				5.00	a	6251115.59	2338688.60	5.00
RECEIVERS		R5	60.5	60.5	67.2	65.0	65.0	0.0				5.00	a	6253877.42	2338515.59	5.00

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
POINTSOURCE		AC01	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6253637.77	2338529.09	50.00
POINTSOURCE		AC02	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6253579.86	2338529.09	50.00
POINTSOURCE		AC03	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6252468.01	2338240.71	50.00
POINTSOURCE		AC04	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6252410.10	2338241.87	50.00
POINTSOURCE		CAR01	81.1	81.1	81.1	Lw	81.1					5.00	a	6253726.05	2338216.47	5.00
POINTSOURCE		CAR02	81.1	81.1	81.1	Lw	81.1					5.00	a	6253679.41	2338235.23	5.00
POINTSOURCE		CAR03	81.1	81.1	81.1	Lw	81.1					5.00	a	6253726.05	2338252.54	5.00
POINTSOURCE		CAR04	81.1	81.1	81.1	Lw	81.1					5.00	a	6253680.37	2338286.68	5.00
POINTSOURCE		CAR05	81.1	81.1	81.1	Lw	81.1					5.00	a	6253726.05	2338303.99	5.00
POINTSOURCE		CAR06	81.1	81.1	81.1	Lw	81.1					5.00	a	6253679.41	2338330.92	5.00
POINTSOURCE		CAR07	81.1	81.1	81.1	Lw	81.1					5.00	a	6253726.05	2338349.67	5.00
POINTSOURCE		CAR08	81.1	81.1	81.1	Lw	81.1					5.00	a	6253677.00	2338383.82	5.00
POINTSOURCE		CAR09	81.1	81.1	81.1	Lw	81.1					5.00	a	6253727.01	2338410.26	5.00

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
POINTSOURCE		CAR10	81.1	81.1	81.1	Lw	81.1					5.00	a	6253677.00	2338431.90	5.00
POINTSOURCE		CAR11	81.1	81.1	81.1	Lw	81.1					5.00	a	6253727.98	2338458.35	5.00
POINTSOURCE		CAR12	81.1	81.1	81.1	Lw	81.1					5.00	a	6252384.00	2338128.64	5.00
POINTSOURCE		CAR13	81.1	81.1	81.1	Lw	81.1					5.00	a	6252408.56	2338151.45	5.00
POINTSOURCE		CAR14	81.1	81.1	81.1	Lw	81.1					5.00	a	6252430.05	2338129.07	5.00
POINTSOURCE		CAR15	81.1	81.1	81.1	Lw	81.1					5.00	a	6252452.43	2338153.20	5.00
POINTSOURCE		CAR16	81.1	81.1	81.1	Lw	81.1					5.00	a	6252504.63	2338138.73	5.00
POINTSOURCE		CAR17	81.1	81.1	81.1	Lw	81.1					5.00	a	6252504.19	2338108.90	5.00
POINTSOURCE		CAR18	81.1	81.1	81.1	Lw	81.1					5.00	a	6252477.43	2338081.26	5.00
POINTSOURCE		CAR19	81.1	81.1	81.1	Lw	81.1					5.00	a	6252440.14	2338081.26	5.00
POINTSOURCE		CAR20	81.1	81.1	81.1	Lw	81.1					5.00	a	6252389.26	2338082.58	5.00
POINTSOURCE		CAR21	81.1	81.1	81.1	Lw	81.1					5.00	a	6252348.90	2338082.14	5.00
POINTSOURCE		CAR22	81.1	81.1	81.1	Lw	81.1					5.00	a	6252323.46	2338132.15	5.00
POINTSOURCE		CAR23	81.1	81.1	81.1	Lw	81.1					5.00	a	6252323.46	2338174.70	5.00
POINTSOURCE		CAR24	81.1	81.1	81.1	Lw	81.1					5.00	a	6252322.14	2338231.28	5.00
POINTSOURCE		CAR25	81.1	81.1	81.1	Lw	81.1					5.00	a	6252370.40	2338255.41	5.00
POINTSOURCE		CAR26	81.1	81.1	81.1	Lw	81.1					5.00	a	6252322.58	2338290.94	5.00
POINTSOURCE		CAR27	81.1	81.1	81.1	Lw	81.1					5.00	a	6252369.96	2338313.75	5.00
POINTSOURCE		CAR28	81.1	81.1	81.1	Lw	81.1					5.00	a	6252322.14	2338336.56	5.00
POINTSOURCE		CAR29	81.1	81.1	81.1	Lw	81.1					5.00	a	6252370.84	2338406.31	5.00
POINTSOURCE		CAR30	81.1	81.1	81.1	Lw	81.1					5.00	a	6252322.58	2338436.14	5.00
POINTSOURCE		CAR31	81.1	81.1	81.1	Lw	81.1					5.00	a	6252371.27	2338459.82	5.00
POINTSOURCE		CAR32	81.1	81.1	81.1	Lw	81.1					5.00	a	6252322.14	2338490.53	5.00
POINTSOURCE		CAR33	81.1	81.1	81.1	Lw	81.1					5.00	a	6252369.96	2338515.97	5.00
POINTSOURCE		CAR34	81.1	81.1	81.1	Lw	81.1					5.00	a	6252320.83	2338541.85	5.00
POINTSOURCE		TRASH01	89.0	89.0	89.0	Lw	89		900.00	0.00	270.00	5.00	a	6252617.37	2338087.90	5.00

Line Source(s)

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)	
LINESOURCE		TRUCK01	103.4	103.4	103.4	87.0	87.0	87.0	Lw	103.4									8	a
LINESOURCE		TRUCK02	103.4	103.4	103.4	89.9	89.9	89.9	Lw	103.4									8	a

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
LINESOURCE	TRUCK01	8.00	a			6252604.85	2338170.69	8.00	0.00
						6252595.94	2338171.08	8.00	0.00
						6252587.10	2338169.97	8.00	0.00
						6252578.56	2338167.39	8.00	0.00
						6252570.59	2338163.41	8.00	0.00
						6252563.39	2338158.15	8.00	0.00
						6252557.18	2338151.76	8.00	0.00
						6252552.13	2338144.41	8.00	0.00
						6252548.38	2338136.32	8.00	0.00
						6252547.20	2338065.34	8.00	0.00
LINESOURCE	TRUCK02	8.00	a			6253823.07	2338523.30	8.00	0.00
						6253822.73	2338596.97	8.00	0.00

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
AREASOURCE		DOCK01	103.4	103.4	103.4	60.0	60.0	60.0	Lw	103.4					8	a

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
AREASOURCE	DOCK01	8.00	a			6252604.68	2338269.66	8.00	0.00
						6253556.69	2338262.71	8.00	0.00
						6253556.69	2338204.80	8.00	0.00
						6253742.00	2338201.33	8.00	0.00
						6253743.16	2338523.30	8.00	0.00
						6253863.61	2338523.30	8.00	0.00
						6253862.45	2338164.27	8.00	0.00
						6253736.21	2338077.52	8.00	0.00
						6253600.79	2338077.87	8.00	0.00
						6253600.10	2338097.66	8.00	0.00
						6253045.63	2338102.00	8.00	0.00
						6253047.14	2338079.74	8.00	0.00
						6252605.00	2338083.56	8.00	0.00

Barrier(s)

Name	Sel.	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
				left	right		horz.	vert.	Begin		End	x	y	z	Ground
						(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
BARRIERPLANNED			0						14.00	a		6252604.28	2338209.22	14.00	0.00
												6252604.22	2338188.18	14.00	0.00
BARRIERPLANNED			0						14.00	a		6252604.22	2338147.80	14.00	0.00
												6252603.51	2338080.04	14.00	0.00
												6253050.56	2338076.98	14.00	0.00
												6253050.56	2338099.55	14.00	0.00
												6253599.38	2338095.86	14.00	0.00
												6253599.38	2338076.76	14.00	0.00
												6253753.39	2338075.51	14.00	0.00
BARRIERPLANNED			0						14.00	a		6253741.78	2338523.66	14.00	0.00
												6253802.55	2338523.23	14.00	0.00
BARRIERPLANNED			0						14.00	a		6253843.34	2338522.58	14.00	0.00
												6253877.47	2338522.14	14.00	0.00
BARRIERPLANNED			0						14.00	a		6254172.16	2338883.30	14.00	0.00
												6254222.08	2338883.30	14.00	0.00
												6254232.93	2339970.54	14.00	0.00

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING			BUILDING00001	x	0		45.00	a	6252388.10	2338568.47	45.00	0.00
									6253660.93	2338558.05	45.00	0.00
									6253660.93	2338202.49	45.00	0.00
									6253556.69	2338204.80	45.00	0.00
									6253556.69	2338262.71	45.00	0.00
									6252604.68	2338269.66	45.00	0.00
									6252604.28	2338209.22	45.00	0.00
									6252382.31	2338211.75	45.00	0.00
BUILDING			BUILDING00002	x	0		45.00	a	6251073.20	2338592.50	45.00	0.00
									6252041.09	2338577.31	45.00	0.00
									6252036.75	2338212.73	45.00	0.00
									6251887.01	2338214.90	45.00	0.00
									6251887.01	2338271.32	45.00	0.00
									6251214.26	2338280.00	45.00	0.00
									6251218.60	2338223.58	45.00	0.00
									6251071.03	2338221.41	45.00	0.00
BUILDING			BUILDING00003	x	0		45.00	a	6251014.61	2337793.89	45.00	0.00
									6252574.94	2337770.02	45.00	0.00
									6252579.28	2337826.45	45.00	0.00
									6252685.62	2337824.28	45.00	0.00
									6252674.77	2337301.27	45.00	0.00
									6252509.84	2337145.02	45.00	0.00
									6250895.25	2337164.55	45.00	0.00
									6250903.93	2337843.81	45.00	0.00
									6251012.44	2337839.47	45.00	0.00
BUILDING			BUILDING00004	x	0		45.00	a	6253299.77	2340148.49	45.00	0.00
									6254100.55	2340141.98	45.00	0.00
									6254102.72	2340022.63	45.00	0.00
									6254048.47	2340024.80	45.00	0.00
									6254033.27	2338889.81	45.00	0.00
									6254100.55	2338885.47	45.00	0.00
									6254094.04	2338774.80	45.00	0.00
									6253284.58	2338781.31	45.00	0.00
									6253286.75	2338896.32	45.00	0.00
									6253345.34	2338896.32	45.00	0.00
									6253362.70	2340033.48	45.00	0.00
									6253306.28	2340037.82	45.00	0.00
BUILDING			BUILDING00005	x	0		45.00	a	6254374.31	2338765.02	45.00	0.00
									6254417.72	2338766.74	45.00	0.00
									6254418.29	2338721.04	45.00	0.00
									6254374.88	2338727.32	45.00	0.00
BUILDING			BUILDING00006	x	0		45.00	a	6254475.98	2338797.58	45.00	0.00
									6254505.68	2338797.58	45.00	0.00
									6254506.26	2338708.48	45.00	0.00
									6254471.41	2338706.76	45.00	0.00

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APPENDIX 10.1:

CADNAA CONSTRUCTION NOISE MODEL INPUTS

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14882 - Gateway South 9 Warehouse

CadnaA Noise Prediction Model: 14882-02_Construction.cna
Date: 12.12.22
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (#(Unit,LEN))	**2000.01**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (#(Unit,LEN))	**999.99**
Min. Length of Section (#(Unit,LEN))	**1.01**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Reference Time Day (min)	**960.00**
Reference Time Night (min)	**480.00**
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**0.00**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**100.00**
Search Radius Rcvr	**100.00**
Max. Distance Source - Rcvr	**1000.00 1000.00**
Min. Distance Rvcr - Reflector	**1.00 1.00**
Min. Distance Source - Reflector	**0.10**
Industrial (ISO 9613)	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (#(Unit,TEMP))	**10**
rel. Humidity (%)	**70**
Ground Absorption G	**0.50**
Wind Speed for Dir. (#(Unit,SPEED))	**3.0**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
RECEIVERS		R1	59.2	-47.7	56.2	65.0	65.0	0.0				5.00	a	6254357.81	2338712.42	5.00
RECEIVERS		R2	53.5	-53.5	50.5	65.0	65.0	0.0				5.00	a	6254774.25	2339112.05	5.00
RECEIVERS		R3	66.6	-40.4	63.6	65.0	65.0	0.0				5.00	a	6253107.79	2337920.81	5.00
RECEIVERS		R4	49.3	-57.7	46.3	65.0	65.0	0.0				5.00	a	6251115.59	2338688.60	5.00
RECEIVERS		R5	74.6	-32.4	71.6	65.0	65.0	0.0				5.00	a	6253877.42	2338515.59	5.00

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
SITEBOUNDARY		CONSTRUCTION	122.0	15.0	15.0	73.2	-33.7	-33.7	PWL-Pt	115					8	a

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
SITEBOUNDARY	CONSTRUCTION	8.00	a			6252301.59	2338586.94	8.00	0.00
						6253207.20	2338572.87	8.00	0.00
						6253227.49	2338573.66	8.00	0.00
						6253878.13	2338599.14	8.00	0.00
						6253874.38	2338158.10	8.00	0.00
						6253704.44	2338042.10	8.00	0.00
						6253649.66	2338055.43	8.00	0.00
						6253594.37	2338066.50	8.00	0.00

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
				6253538.67	2338075.27	8.00	0.00
				6253482.66	2338081.74	8.00	0.00
				6253426.43	2338085.90	8.00	0.00
				6253370.08	2338087.74	8.00	0.00
				6253313.70	2338087.26	8.00	0.00
				6253257.38	2338084.45	8.00	0.00
				6253181.00	2338077.50	8.00	0.00
				6253146.62	2338073.34	8.00	0.00
				6253089.33	2338068.14	8.00	0.00
				6253031.90	2338064.78	8.00	0.00
				6252974.40	2338063.27	8.00	0.00
				6252923.70	2338062.92	8.00	0.00
				6252923.44	2338054.27	8.00	0.00
				6252623.46	2338058.81	8.00	0.00
				6252623.50	2338064.23	8.00	0.00
				6252523.51	2338065.69	8.00	0.00
				6252523.30	2338059.74	8.00	0.00
				6252298.30	2338063.56	8.00	0.00

Barrier(s)

Name	Sel.	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
				left	right		horz.	vert.	Begin		End	x	y	z	Ground
						(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
BARRIERPLANNED			0						14.00	a		6254172.16	2338883.30	14.00	0.00
												6254222.08	2338883.30	14.00	0.00
												6254232.93	2339970.54	14.00	0.00

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING			BUILDING00002	x	0		45.00	a	6251073.20	2338592.50	45.00	0.00
									6252041.09	2338577.31	45.00	0.00
									6252036.75	2338212.73	45.00	0.00
									6251887.01	2338214.90	45.00	0.00
									6251887.01	2338271.32	45.00	0.00
									6251214.26	2338280.00	45.00	0.00
									6251218.60	2338223.58	45.00	0.00
									6251071.03	2338221.41	45.00	0.00
BUILDING			BUILDING00003	x	0		45.00	a	6251014.61	2337793.89	45.00	0.00
									6252574.94	2337770.02	45.00	0.00
									6252579.28	2337826.45	45.00	0.00
									6252685.62	2337824.28	45.00	0.00
									6252674.77	2337301.27	45.00	0.00
									6252509.84	2337145.02	45.00	0.00
									6250895.25	2337164.55	45.00	0.00
									6250903.93	2337843.81	45.00	0.00
									6251012.44	2337839.47	45.00	0.00
BUILDING			BUILDING00004	x	0		45.00	a	6253299.77	2340148.49	45.00	0.00
									6254100.55	2340141.98	45.00	0.00
									6254102.72	2340022.63	45.00	0.00
									6254048.47	2340024.80	45.00	0.00
									6254033.27	2338889.81	45.00	0.00
									6254100.55	2338885.47	45.00	0.00
									6254094.04	2338774.80	45.00	0.00
									6253284.58	2338781.31	45.00	0.00
									6253286.75	2338896.32	45.00	0.00
									6253345.34	2338896.32	45.00	0.00
									6253362.70	2340033.48	45.00	0.00
									6253306.28	2340037.82	45.00	0.00
BUILDING			BUILDING00005	x	0		45.00	a	6254374.31	2338765.02	45.00	0.00
									6254417.72	2338766.74	45.00	0.00
									6254418.29	2338721.04	45.00	0.00
									6254374.88	2338727.32	45.00	0.00
BUILDING			BUILDING00006	x	0		45.00	a	6254475.98	2338797.58	45.00	0.00
									6254505.68	2338797.58	45.00	0.00
									6254506.26	2338708.48	45.00	0.00
									6254471.41	2338706.76	45.00	0.00

APPENDIX 10.2:

CADNAA CONCRETE POUR NOISE MODEL INPUTS

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14882 - Gateway South 9 Warehouse

CadnaA Noise Prediction Model: 14882-02_Concrete.cna
Date: 12.12.22
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (#(Unit,LEN))	**2000.01**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (#(Unit,LEN))	**999.99**
Min. Length of Section (#(Unit,LEN))	**1.01**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Reference Time Day (min)	**960.00**
Reference Time Night (min)	**480.00**
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**0.00**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**100.00**
Search Radius Rcvr	**100.00**
Max. Distance Source - Rcvr	**1000.00 1000.00**
Min. Distance Rvcr - Reflector	**1.00 1.00**
Min. Distance Source - Reflector	**0.10**
Industrial (ISO 9613)	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (#(Unit,TEMP))	**10**
rel. Humidity (%)	**70**
Ground Absorption G	**0.50**
Wind Speed for Dir. (#(Unit,SPEED))	**3.0**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
RECEIVERS		R1	44.5	-62.4	41.5	65.0	65.0	0.0				5.00	a	6254357.81	2338712.42	5.00
RECEIVERS		R2	38.8	-67.9	35.8	65.0	65.0	0.0				5.00	a	6254774.25	2339112.05	5.00
RECEIVERS		R3	51.9	-55.1	48.9	65.0	65.0	0.0				5.00	a	6253107.79	2337920.81	5.00
RECEIVERS		R4	34.6	-71.7	31.6	65.0	65.0	0.0				5.00	a	6251115.59	2338688.60	5.00
RECEIVERS		R5	59.9	-47.1	56.9	65.0	65.0	0.0				5.00	a	6253877.42	2338515.59	5.00

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
SITEBOUNDARY		CONCRETE	107.3	0.3	0.3	58.5	-48.4	-48.4	PWL-Pt	100.3					8	a

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
SITEBOUNDARY	CONCRETE	8.00	a			6252301.59	2338586.94	8.00	0.00
						6253207.20	2338572.87	8.00	0.00
						6253227.49	2338573.66	8.00	0.00
						6253878.13	2338599.14	8.00	0.00
						6253874.38	2338158.10	8.00	0.00
						6253704.44	2338042.10	8.00	0.00
						6253649.66	2338055.43	8.00	0.00
						6253594.37	2338066.50	8.00	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
						6253538.67	2338075.27	8.00	0.00
						6253482.66	2338081.74	8.00	0.00
						6253426.43	2338085.90	8.00	0.00
						6253370.08	2338087.74	8.00	0.00
						6253313.70	2338087.26	8.00	0.00
						6253257.38	2338084.45	8.00	0.00
						6253181.00	2338077.50	8.00	0.00
						6253146.62	2338073.34	8.00	0.00
						6253089.33	2338068.14	8.00	0.00
						6253031.90	2338064.78	8.00	0.00
						6252974.40	2338063.27	8.00	0.00
						6252923.70	2338062.92	8.00	0.00
						6252923.44	2338054.27	8.00	0.00
						6252623.46	2338058.81	8.00	0.00
						6252623.50	2338064.23	8.00	0.00
						6252523.51	2338065.69	8.00	0.00
						6252523.30	2338059.74	8.00	0.00
						6252298.30	2338063.56	8.00	0.00

Barrier(s)

Name	Sel.	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
				left	right		horz.	vert.	Begin		End	x	y	z	Ground
						(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
BARRIERPLANNED			0						14.00	a		6254172.16	2338883.30	14.00	0.00
												6254222.08	2338883.30	14.00	0.00
												6254232.93	2339970.54	14.00	0.00

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING			BUILDING00002	x	0		45.00	a	6251073.20	2338592.50	45.00	0.00
									6252041.09	2338577.31	45.00	0.00
									6252036.75	2338212.73	45.00	0.00
									6251887.01	2338214.90	45.00	0.00
									6251887.01	2338271.32	45.00	0.00
									6251214.26	2338280.00	45.00	0.00
									6251218.60	2338223.58	45.00	0.00
									6251071.03	2338221.41	45.00	0.00
BUILDING			BUILDING00003	x	0		45.00	a	6251014.61	2337793.89	45.00	0.00
									6252574.94	2337770.02	45.00	0.00
									6252579.28	2337826.45	45.00	0.00
									6252685.62	2337824.28	45.00	0.00
									6252674.77	2337301.27	45.00	0.00
									6252509.84	2337145.02	45.00	0.00
									6250895.25	2337164.55	45.00	0.00
									6250903.93	2337843.81	45.00	0.00
									6251012.44	2337839.47	45.00	0.00
BUILDING			BUILDING00004	x	0		45.00	a	6253299.77	2340148.49	45.00	0.00
									6254100.55	2340141.98	45.00	0.00
									6254102.72	2340022.63	45.00	0.00
									6254048.47	2340024.80	45.00	0.00
									6254033.27	2338889.81	45.00	0.00
									6254100.55	2338885.47	45.00	0.00
									6254094.04	2338774.80	45.00	0.00
									6253284.58	2338781.31	45.00	0.00
									6253286.75	2338896.32	45.00	0.00
									6253345.34	2338896.32	45.00	0.00
									6253362.70	2340033.48	45.00	0.00
									6253306.28	2340037.82	45.00	0.00
BUILDING			BUILDING00005	x	0		45.00	a	6254374.31	2338765.02	45.00	0.00
									6254417.72	2338766.74	45.00	0.00
									6254418.29	2338721.04	45.00	0.00
									6254374.88	2338727.32	45.00	0.00
BUILDING			BUILDING00006	x	0		45.00	a	6254475.98	2338797.58	45.00	0.00
									6254505.68	2338797.58	45.00	0.00
									6254506.26	2338708.48	45.00	0.00
									6254471.41	2338706.76	45.00	0.00

Appendix K:

Traffic Impact Analysis

GATEWAY SOUTH 9 WAREHOUSE

TRAFFIC IMPACT ANALYSIS

DECEMBER 2, 2022

PREPARED FOR:

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1.0 EXECUTIVE SUMMARY

The following Executive Summary includes a summary of the VMT analyses prepared for the proposed Gateway South 9 warehouse development project. A summary of the LOS for the study intersections is also included.

1.1 Project Generated VMT

Table A below summarizes the project generated baseline and year 2040 Vehicle Miles Traveled (VMT) analyses for the proposed project. As shown in Table A, the baseline plus project VMT per service population is 24.9 miles, which is less than the City's General Plan Buildout VMT per service population of 31.6 miles, therefore, the project does not have an VMT impact under baseline plus project conditions. In addition, the year 2040 plus project VMT per service population is 27.6 miles, which is less than the City's General Plan Buildout VMT per service population of 31.6 miles, and therefore, the project does not have an VMT impact under year 2040 plus project conditions.

Table A: Summary of Project Generated VMT

Baseline	Project
OD VMT per service population	**24.9**
City Threshold**	**31.6**
Impact Less Than Significant?	**Yes**
2040	**Project**
OD VMT per service population	**27.6**
City Threshold**	**31.6**
Impact Less Than Significant?	**Yes**

1.2 Project Effect on VMT

Table B below summarizes the project effect on VMT under baseline and year 2040 conditions for the proposed project. As shown in Table B, the baseline plus project VMT per service population does not increase when compared to the no project condition, therefore, the project does not have an VMT impact under baseline plus project conditions. In addition, the year 2040 plus project VMT per service population does not increase when compared to the no project condition, therefore, the project does not have an VMT impact under year 2040 plus project conditions.

Table B: Summary of Project Effect on VMT

	With Project	Without Project	Difference
Baseline			
VMT per service population	**10.976**	**11.017**	**-0.041**
Year 2040			
VMT per service population	**12.379**	**12.385**	**-0.006**

1.3 LOS Analysis Deficiencies

The deficient intersections at the study are intersections are included below.

Existing Conditions

The following intersections currently operate at deficient LOS under existing conditions:

- Lena Road and Orange Show Road (p.m. peak hour).

A traffic signal is planned to be installed at the intersection of Lena Road and Orange Show Road prior to opening year (2024) conditions. Therefore, a traffic signal at Lena Road and Orange Show Road has been included in the opening year (2024) scenarios. With the implementation of the traffic signal, all intersections are forecast to operate at satisfactory LOS under opening year (2024) conditions.

2.0 INTRODUCTION

This report presents the methodology, findings and conclusions of the Traffic Impact Analysis (TIA) prepared for the proposed Gateway South 9 warehouse development project. The proposed project site is located at the northeast corner of the intersection of Lena Road and Orange Show Road in the City of San Bernardino. The project proposes the construction of approximately 397,400 square feet of High-Cube Transload and Short-Term Storage warehousing.

2.1 Purpose of the Traffic Study and Study Objectives

This report is intended to satisfy the requirements for a TIA established by the City of San Bernardino *Traffic Impact Analysis Guidelines* August 2020 (Guidelines) and the San Bernardino County Congestion Management Program (CMP), adopted November 3, 1993, and last revised in 2016. The San Bernardino County CMP is implemented by the San Bernardino County Transportation Authority (SBCTA, previously San Bernardino Associated Governments). The City has adopted vehicle LOS policies that set standards for which local agency infrastructure will strive to maintain. These policies are contained in the General Plan and apply to discretionary approvals of new land use and transportation projects.

The City guidelines require analysis of off-site intersections potentially affected by the project, which the City defines as intersections at which the project is forecast to add 50 or more peak hour trips (two-way). This report evaluates five intersections and project driveways under four analysis scenarios. The analysis intersections were approved by the City during the scoping process and is included in Appendix A. In addition, this reports also evaluates alternative modes of travel in the vicinity of the project.

2.2 Project Location & Study Area

As stated earlier, the project is located at the northeast corner of the intersection of Lena Road and Orange Show Road in the City of San Bernardino. Figure 1 shows the regional location of the project. The project proposes 397,400 square feet of High-Cube Transload and Short-Term Storage warehousing. The project opening year is anticipated to be 2024. Figure 2 illustrates the site plan of the proposed project.

Based on the trip generation and trip distribution of the proposed project, and based on discussion with City staff, this report analyzes the following intersections for traffic operations:

1. Lena Road and Norman Road.
2. Lena Road and Driveway 1.
3. Lena Road and Orange Show Road.
4. Driveway 2 and Orange Show Road.
5. Driveway 3 and Norman Road.

Figure 3 illustrates the study intersections included in the analysis.

2.3 Analysis Scenarios

Based on the City guidelines, this report analyzes traffic conditions for the following scenarios:

1. Existing Conditions,
2. Opening Year (2024) Base Conditions,
3. Opening Year (2024) Base plus Other Projects Conditions. and
4. Opening Year (2024) Base plus Other Projects plus Project Conditions.



Legend

Project Boundary

City of San Bernardino

FIGURE 1

Gateway South 9 Warehouse
Regional and Project Location

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D:\GIS\Hillwood - GWS9\Reports\Regional Project Location.qgz (11-13-2022)

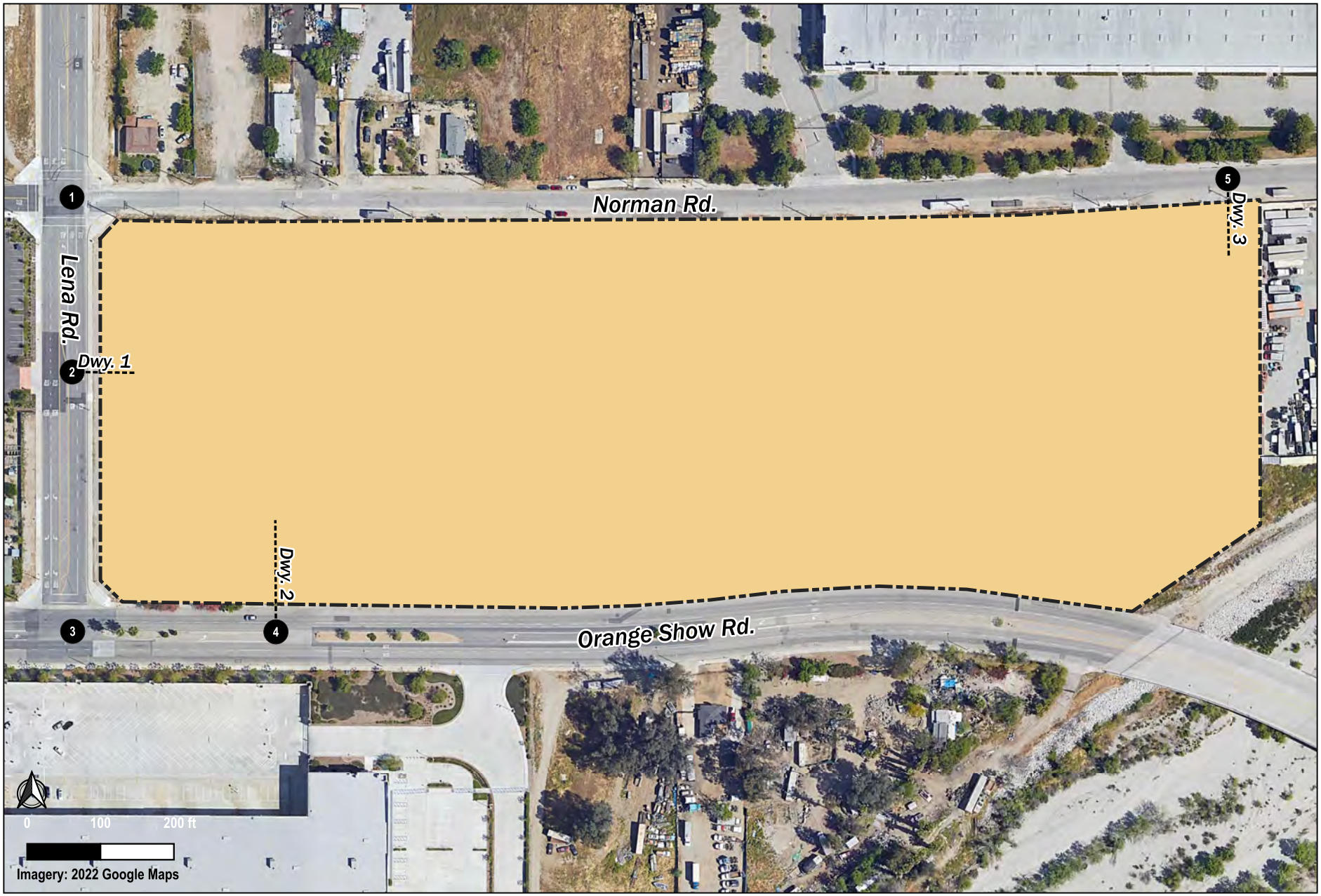


FIGURE 2

Gateway South 9 Warehouse
Site Plan

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D:\Projects\Hillwood - GWS9\scope\Z30 Site Plan Landscape (11/28/2022)



Legend

Project Boundary

Study Area Intersections

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FIGURE 3
Gateway South 9 Warehouse
Study Area Intersections

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Consistent with City guidelines, this report analyzes weekday a.m. and p.m. peak hour conditions. The a.m. peak hour is defined as the one hour of highest traffic volumes occurring between 7:00 and 9:00 a.m. The p.m. peak hour is defined as the one hour of highest traffic volumes occurring between 4:00 and 6:00 p.m.

3.0 PROJECT DESCRIPTION

The project proposes the construction of approximately 397,400 square feet of high-cube warehouse uses on approximately 18.43 acres. Access to the project will be provided via three driveways. Driveway 1 is located on Lena Road and is a right-in/right-out access driveway. Driveway 2 is located on Orange Show Road and will allow left turns in via an existing curb cut with left turn pocket as well as right-in/right-out-access. Driveway 3 is located on Norman Road and is a full-access driveway for autos and trucks.

3.1 Internal Circulation

As stated previously, access to the project will be provided via three driveways, with one driveway on Lena Road, one driveway on Orange Show Road, and one driveway on Norman Road. The following includes a description of the internal circulation at each driveway.

The driveway on Lena Road is 30 feet wide and will provide access for passenger vehicles. Passenger vehicles will have access to parking to the north and south of the driveway aisle and access to the parking along the western portion of the building.

The driveway on Norman Road is 50 feet wide and will provide access for passenger vehicles and trucks. Passenger vehicles will have access to the parking along the eastern portion of the building. Trucks will enter the project on Norman Road and have access to the dock doors and parking without having to wait for any gates to open.

The driveway on Orange Show Road is 50 feet wide and will provide access for passenger vehicles and trucks. Passenger vehicles will have access to parking to the west of the driveway aisle. Trucks will enter the project on Orange Show Road and have access to the dock doors and parking without having to wait for any gates to open.

3.2 Project Trip Generation

Existing Traffic. The project site includes various industrial land uses with multiple driveways on Norman Road and Orange Show Road. However, based on our site visit, there is one trailer parking lot on Norman Road totaling approximately 2 acres that currently generate a significant number of trips. The Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) does not currently have a land use for truck storage facilities. The trip generation for the drop lots have been calculated from the County of San Bernardino guidance on trailer parking trip generation. Table C shows the trip generation of the trailer parking lots. As shown on Table C, the existing trailer parking are anticipated to generate 19 PCE trips during the a.m. peak hour, PCE 22 trips during the p.m. peak hour, and 419 daily PCE trips. The trip rates are included in Appendix B.

Project Traffic. Table D shows the trip generation of the proposed High-Cube Transload and Short-Term Storage use. As shown on Table D, the proposed project is anticipated to generate 46 PCE trips during the a.m. peak hour, 47 PCE trips during the p.m. peak hour, and 708 daily PCE trips. The trips from the existing trailer parking were subtracted from the proposed high-cube warehouse trips to develop the total net project trip generation. Table E includes the total net project trip generation. The total net project trip generation is forecast to be 27 a.m. peak hour PCE trips, 25 p.m. peak hour PCE trips, and 289 daily PCE trips.

3.3 Project Trip Distribution & Assignment

Project trip distribution patterns for the proposed project were developed separately for autos and trucks based on location of local and regional destinations. The project trip generation was applied to the trip distribution patterns for the project to develop trip assignments for new project trips. Figure 4 shows the trip distribution for passenger vehicles and Figure 5 shows the trip distribution for trucks. Figure 6 shows the trip assignment for passenger vehicles and Figure 7 shows the trip assignment for trucks. The total project trip assignment is shown in Figure 8.

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Table C: Existing Trip Generation

Land Use	Units[1]	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Truck Terminal	2.00 Ac.							
Trip Generation Rates[2]		1.936	1.584	3.520	1.950	2.030	3.980	76.840
PCE Inbound/Outbound Splits		55%	45%	100%	49%	51%	100%	50%/50%
Vehicle Mix [3]								
Passenger Cars		13.30%	13.30%	13.30%	13.30%	13.30%	13.30%	13.30%
4-Axle Trucks		86.70%	86.70%	86.70%	86.70%	86.70%	86.70%	86.70%
Total Trips								
Passenger Cars		1	0	1	0	1	1	20
4-Axle+ Trucks		3	3	6	3	4	7	133
Total Vehicle Trips		**4**	**3**	**7**	**3**	**5**	**8**	**153**
Total PCE Trips								
Passenger Cars		1	0	1	0	1	1	20
4-Axle+ Trucks		9	9	18	9	12	21	399
Total Vehicle Trips		**10**	**9**	**19**	**9**	**13**	**22**	**419**

[1] Ac = Acres

[2] Rates provided by County of San Bernardino.

[3] Appendix B includes County of San Bernardino rates.

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Table D: Project Trip Generation (High-Cube Warehouse)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.062	0.018	0.080	0.028	0.072	0.100	1.400
PCE Inbound/Outbound Splits		69%	31%	100%	31%	69%	100%	100%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		84.09%	44.57%	75.00%	83.21%	92.64%	90.00%	84.29%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.052	0.008	0.060	0.023	0.067	0.090	1.180
2-Axle Trucks								
Recommended Mix (%)[2]		2.69%	9.39%	4.23%	2.84%	1.25%	1.69%	2.66%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.003	0.003	0.007	0.002	0.002	0.003	0.075
3-Axle Trucks								
Recommended Mix (%)[2]		3.61%	12.59%	5.68%	3.81%	1.67%	2.27%	3.57%
PCE Factor[3]		2.5	2.5	2.5	2.5	2.5	2.5	2.5
PCE Rates		0.006	0.006	0.011	0.003	0.003	0.006	0.125
4-Axle Trucks								
Recommended Mix (%)[2]		9.60%	33.46%	15.09%	10.13%	4.44%	6.04%	9.48%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.018	0.018	0.036	0.009	0.010	0.018	0.398
Warehouse Net PCE Rate		**0.078**	**0.036**	**0.114**	**0.036**	**0.081**	**0.117**	**1.778**
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	397.400 TSF							
Passenger Cars		**21**	**3**	**24**	**9**	**27**	**36**	**469**
2-Axle Trucks		0	1	1	1	0	1	15
3-Axle Trucks		1	1	2	1	0	1	20
4+ Axle Trucks		3	2	5	1	1	2	53
All Trucks		**4**	**4**	**8**	**3**	**1**	**4**	**88**
Total Vehicles		**25**	**7**	**32**	**12**	**28**	**40**	**557**
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		**21**	**3**	**24**	**9**	**27**	**36**	**469**
Truck PCE								
2-Axle Trucks		0	2	2	2	0	2	30
3-Axle Trucks		2	3	5	3	0	3	50
4+ Axle Trucks		9	6	15	3	3	6	159
Total Truck PCE		**11**	**11**	**22**	**8**	**3**	**11**	**239**
Total PCE		**32**	**14**	**46**	**17**	**30**	**47**	**708**

[1] Rates based on Land Use 154 - "High-Cube Transload and Short-Term Storage Warehouse" from Institute of Transportation Engineers (ITE) Trip Generation (11th Edition).

[2] Recommended Truck Mix Percentages per ITE 11th Ed. Sub types based on Fontana Study.

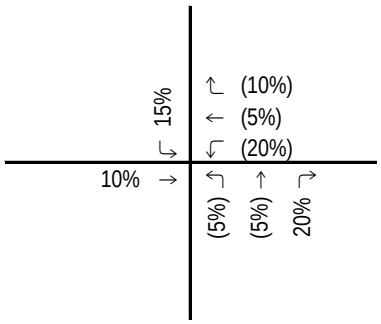
[3] Recommended PCE Factor per City of San Bernardino Traffic Impact Study Guidelines, 2004

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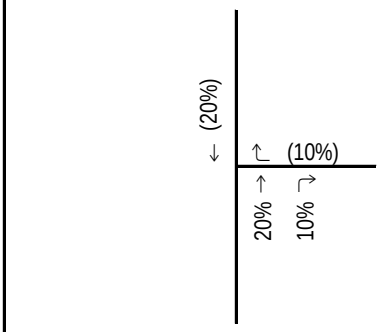
Table E: Net New Trip Generation

Land Use	Units[1]	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Proposed PCE Trips								
Passenger Cars		21	3	24	9	27	36	469
Truck PCE		11	11	22	8	3	11	239
Total Vehicle Trips		**32**	**14**	**46**	**17**	**30**	**47**	**708**
Existing PCE Trips								
Passenger Cars		1	0	1	0	1	1	20
Truck PCE		9	9	18	9	12	21	399
Total Vehicle Trips		**10**	**9**	**19**	**9**	**13**	**22**	**419**
Net New PCE Trips								
Passenger Cars		20	3	23	9	26	35	449
Truck PCE		2	2	4	-1	-9	-10	-160
Total PCE Trips		**22**	**5**	**27**	**8**	**17**	**25**	**289**

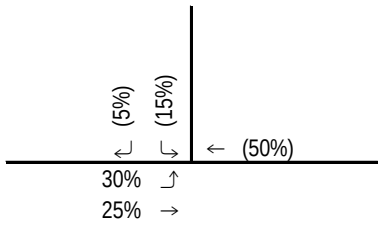




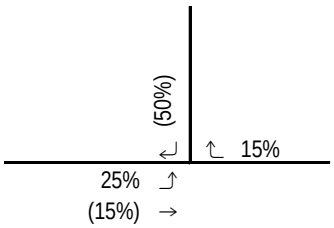
1 Lena Rd/Norman Rd



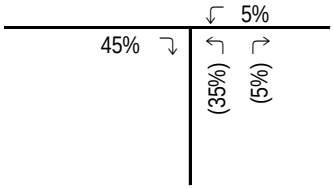
2 Lena Rd/Dwy 1



3 Lena Rd/Orange Show Rd



4 Dwy 2/Orange Show Rd



5 Dwy 3/Norman Rd

FIGURE 4

XXX%(YYY%) Inbound%(Outbound%) Percent

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Gateway South 9 Warehouse
Project Trip Distribution (Autos)



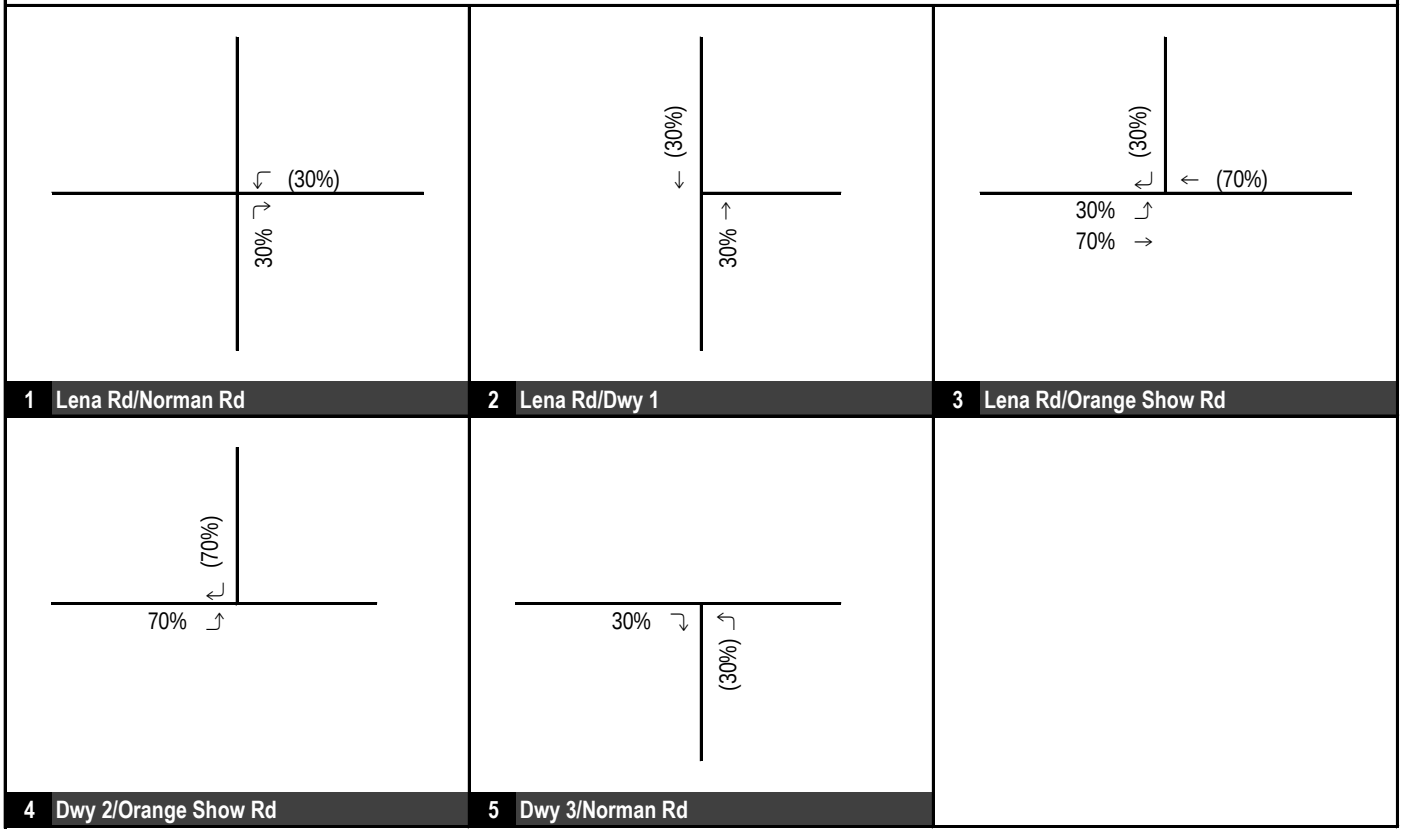
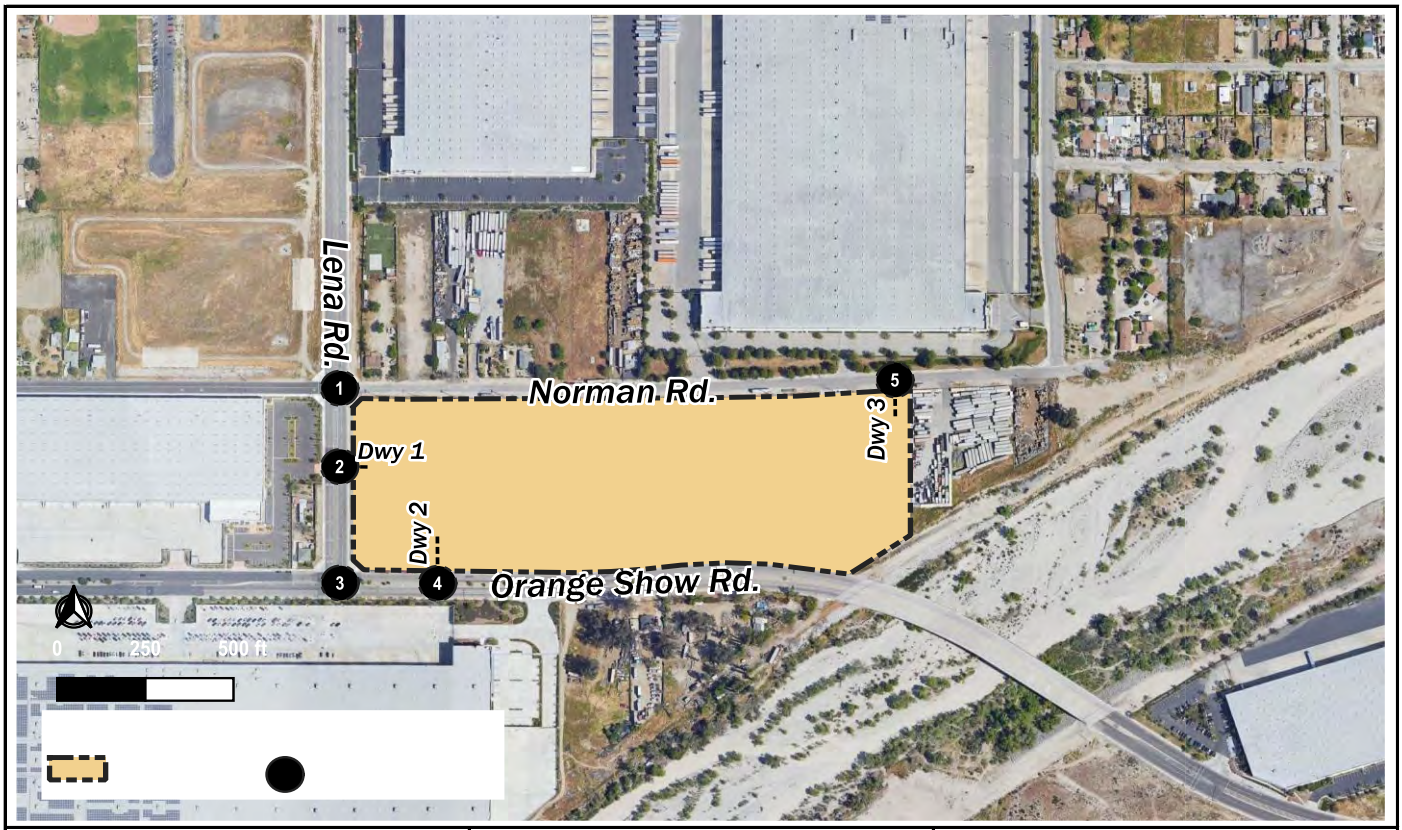


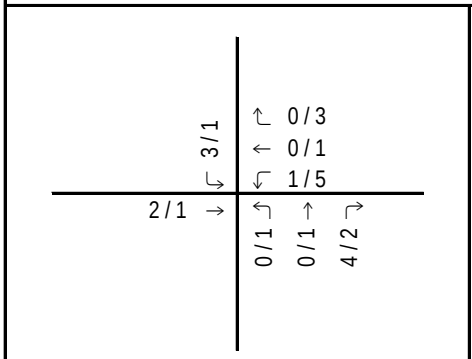
FIGURE 5

XXX%(YYY%) Inbound%(Outbound%) Percent

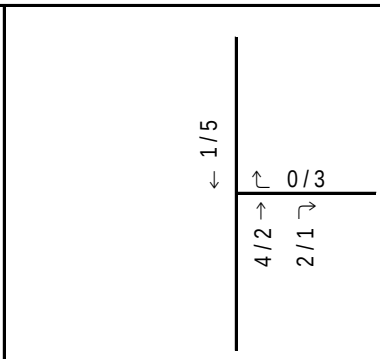
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Gateway South 9 Warehouse
Project Trip Distribution (Trucks)

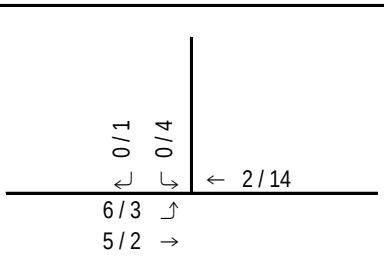




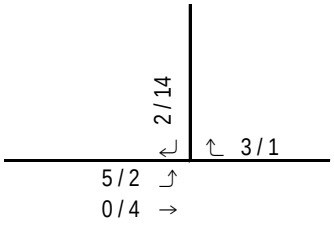
1 Lena Rd/Norman Rd



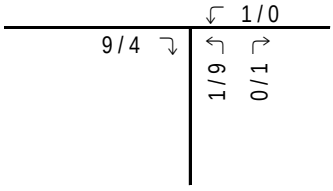
2 Lena Rd/Dwy 1



3 Lena Rd/Orange Show Rd



4 Dwy 2/Orange Show Rd



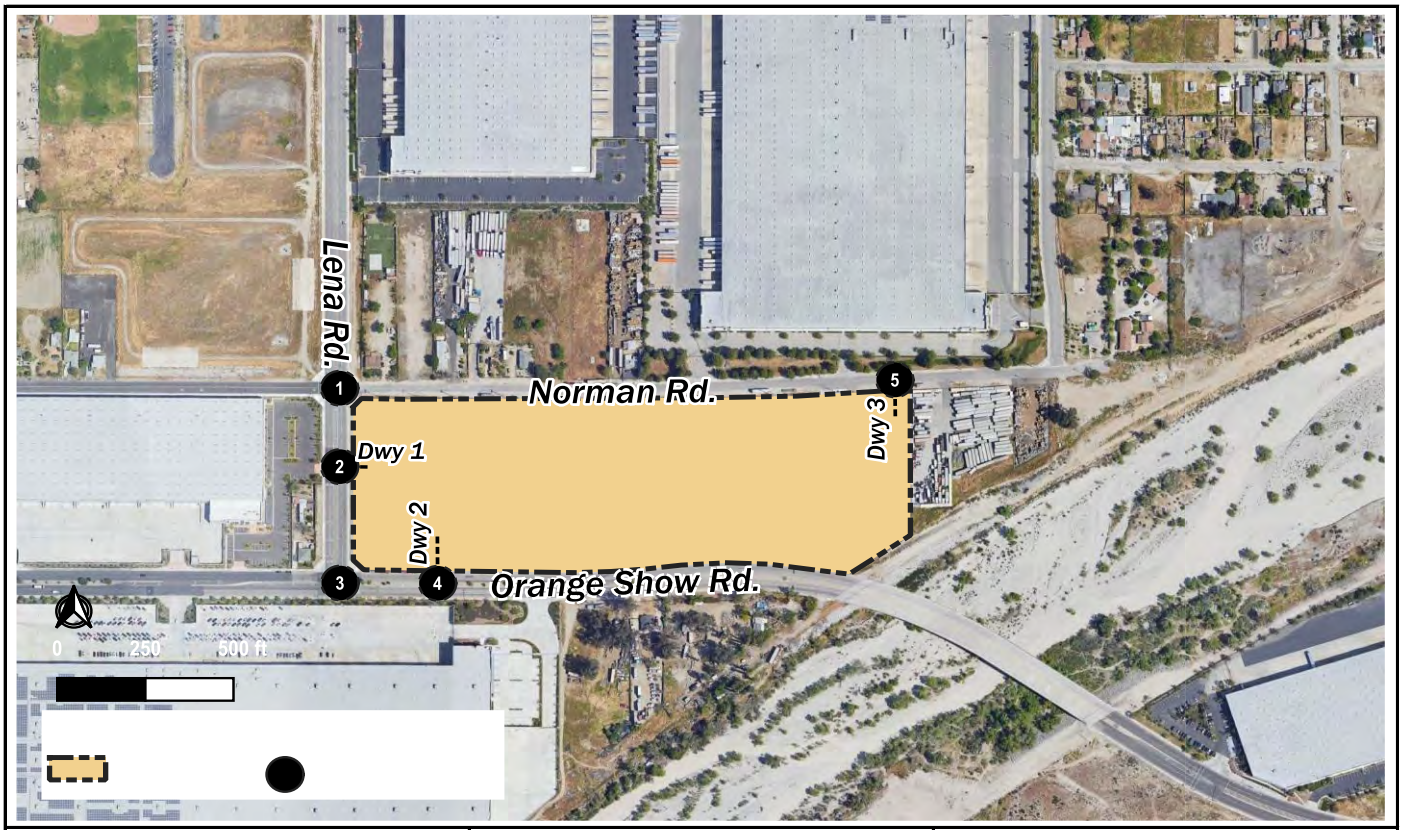
5 Dwy 3/Norman Rd

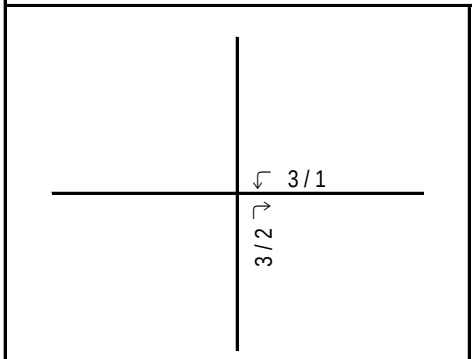
FIGURE 6

XXX / YYY AM / PM Peak Hour Trips

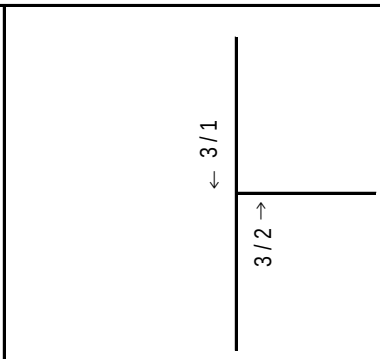
Gateway South 9 Warehouse
Project Trip Assignment (Autos)

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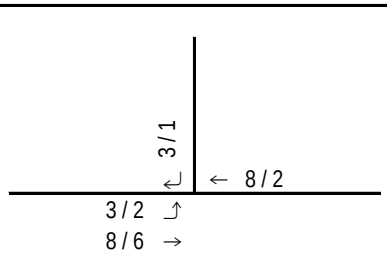




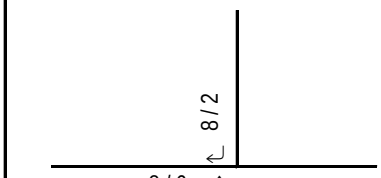
1 Lena Rd/Norman Rd



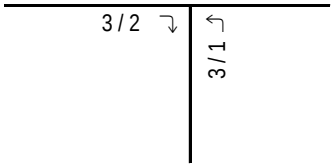
2 Lena Rd/Dwy 1



3 Lena Rd/Orange Show Rd



4 Dwy 2/Orange Show Rd



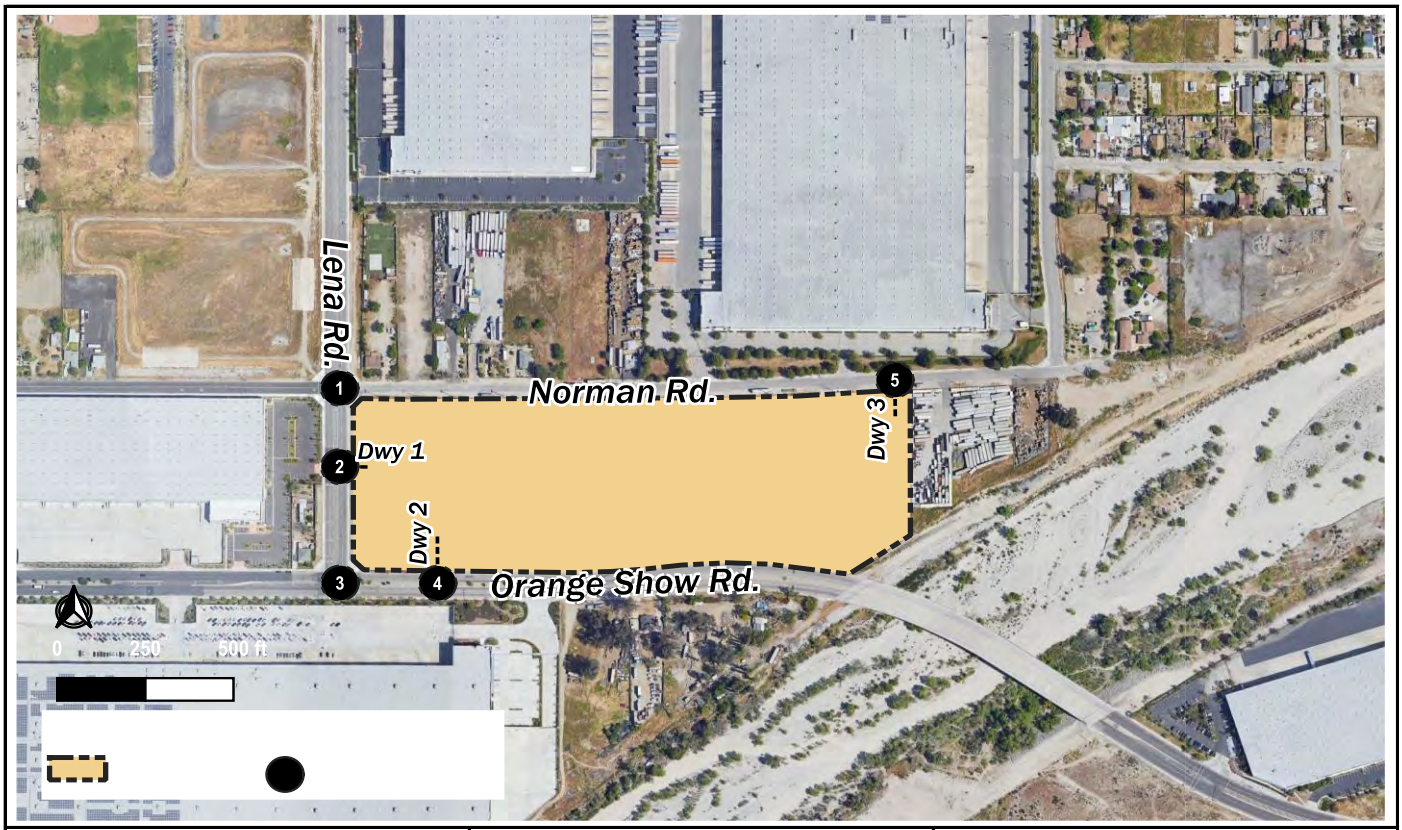
5 Dwy 3/Norman Rd

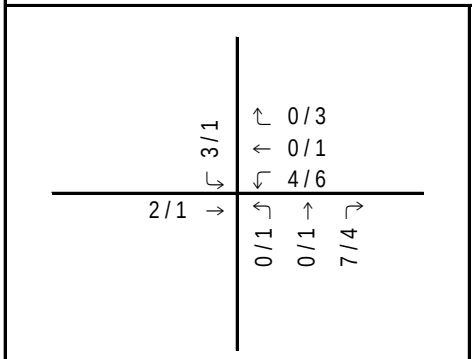
FIGURE 7

XXX / YYY AM / PM Peak Hour Trips

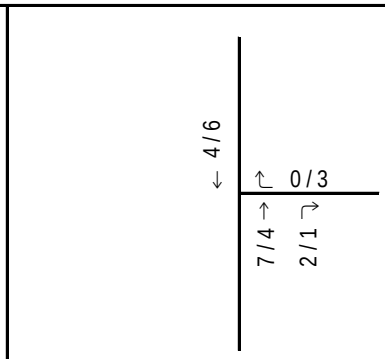
Gateway South 9 Warehouse
Project Trip Assignment (Trucks)

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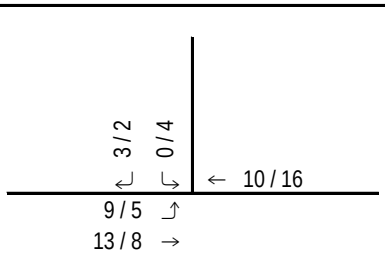




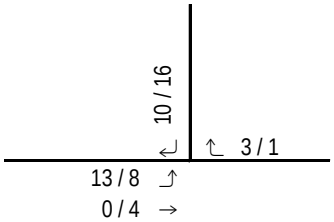
1 Lena Rd/Norman Rd



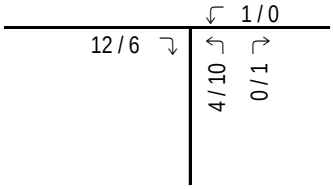
2 Lena Rd/Dwy 1



3 Lena Rd/Orange Show Rd



4 Dwy 2/Orange Show Rd



5 Dwy 3/Norman Rd

FIGURE 8

XXX / YYY AM / PM Peak Hour Trips

Gateway South 9 Warehouse
Total Project Trip Assignment

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4.0 LOS DEFINITIONS, PROCEDURES, AND THRESHOLDS

Level of service (LOS) is a measure of the quality of operational conditions within a traffic stream and is generally expressed in terms of such measures as speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience. Levels range from A to F, with LOS A representing excellent (free-flow) conditions and LOS F representing extreme congestion. Consistent to the guidelines, the Highway Capacity Manual (HCM) procedures have been used to evaluate levels of service. This section discusses the LOS definitions, procedures, and thresholds used in this report.

4.1 Intersection Levels of Service

The analysis of traffic operations at intersections was conducted according to the Highway Capacity Manual 6th Edition (HCM) delay methodologies, which is described in the Highway Capacity Manual (Transportation Research Board, Washington, D.C., November 2016). Under the HCM methodology, LOS for signalized intersections is based on the average delay experienced by vehicles traveling through an intersection, whereas for unsignalized intersections, the LOS is based on the worst approach where the minor leg has a shared lane and on the worst movement where the minor leg has dedicated turn lanes. Table F presents a brief description of each level of service letter grade, as well as the range of delays associated with each grade.

4.2 Levels of Service Thresholds

The City of San Bernardino uses LOS D as the minimum level of service standard for intersection operations. Therefore, study intersections operating at LOS E, or F are required to be mitigated to provide LOS conformity with the City's General Plan goals.

4.3 Project Deficiencies

The City Guidelines include project deficiencies for intersection operations. Based on the guidelines, intersections are considered to be deficient when any of the following changes in the volume to capacity ratios occur between the without and with project conditions:

- LOS C: > 0.04
- LOS D: > 0.02
- LOS E, F: > 0.01

5.0 VOLUME DEVELOPMENT METHODOLOGY

Forecast traffic volumes at study intersections were developed based on discussion with City staff. This section discusses the volume development methodology used to forecast future traffic volumes.

5.1 Existing (2022) Traffic Volumes

Existing peak hour traffic volumes are based on peak hour intersection turn movement counts collected by Counts Unlimited Inc. in June 2021. The counts are included in Appendix B. Vehicle classification counts (e.g., passenger vehicle, 2-axle truck, 3-axle truck, and 4 or more axle truck), were conducted at all existing study area intersections. Consistent with the City guidelines, PCE volumes at these intersections were calculated using a PCE factor of 2.0 for 2-axle trucks, 2.5 for 3-axle trucks, and 3.0 for trucks with 4 or more axles. To develop existing (2022) peak hour traffic volumes, an ambient growth rate of 3 percent per annum (2021 to 2022) was applied to the existing counts at each study intersection. Detailed volume development worksheets are included in Appendix C.

5.2 Opening Year (2024) Base Traffic Volumes

Opening year (2024) base peak hour traffic volumes were developed by applying an annual growth rate of 3 percent per year (2022 to 2024) to the existing traffic volumes at each study intersection. Detailed volume development worksheets are included in Appendix C.

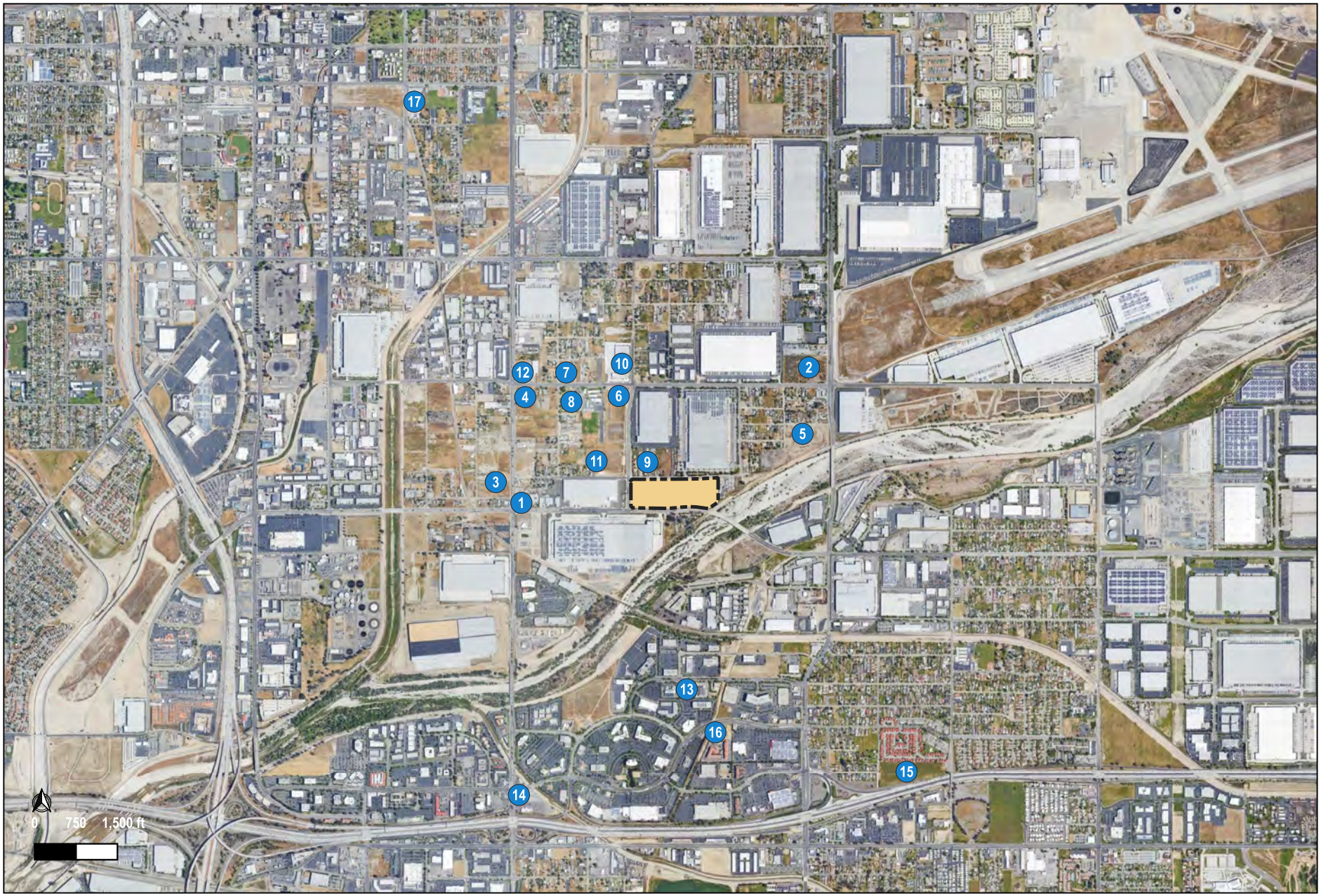
5.3 Opening Year (2024) Base plus Other Proposed Projects Traffic Volumes

Opening year (2024) base plus other proposed projects peak hour traffic volumes were developed by adding project trips from other proposed projects to the opening year (2024) base traffic volumes. Figure 9 shows the locations of the other

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Table F: Intersection Level of Service Criteria

LOS	Description of Drivers' Perception and Traffic Operation	Intersection Delay in Seconds	
		Unsignalized	Signalized
A	This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable, or the cycle length is very short. If it is due to favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.	≤ 10	≤ 10
B	This level is assigned when the volume-to-capacity ratio is low and either progression is highly favorable, or the cycle length is short. More vehicles stop than with LOS A.	> 10 and ≤ 15	> 10 and ≤ 20
C	This level is typically assigned when progression is favorable, or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.	> 15 and ≤ 25	> 20 and ≤ 35
D	This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective, or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.	> 25 and ≤ 35	> 35 and ≤ 55
E	This level is typically assigned when the volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.	> 35 and ≤ 50	> 55 and ≤ 80
F	This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.	> 50	> 80



Legend

Project Boundary

Other Projects Locations

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FIGURE 9

Gateway South 9 Warehouse
Other Proposed Project Locations

D:\GIS\Hillwood - GWS9\Reports\Other Proposed Project Locations.qgz (11-28-2022)

proposed projects. Table G lists the other proposed projects included in the analysis. The other proposed projects are anticipated to generate 874 a.m. peak hour trips, 929 p.m. peak hour trips, and 17,496 daily trips. Detailed volume development worksheets are included in Appendix C.

5.4 Opening Year (2024) Base plus Other Proposed Projects plus Project Traffic Volumes

Traffic volumes for opening year (2024) base plus Other Proposed Projects plus Project were developed by adding the trip assignment to the opening year (2024) base plus Other Proposed Projects peak hour traffic volumes. In addition, the opening year background traffic was adjusted to account for the trip generation for the existing drop lots on the project site.

6.0 EXISTING CONDITIONS

This section discusses the existing transportation conditions in the study area.

6.1 Existing Roadway Conditions

Regional access to the project site is provided by Interstate 10 to the south and west, and State Route 210 to the north and Interstate 15 to the east. Local access is provided by the following roadways:

- **Lena Road** is oriented in the north-south direction and is a four-lane roadway. There is a two-way left-turn lane on Lena Road from Norman Road to Orange Show Road. On-street parking is prohibited. There are no existing bike lanes on Lena Road. There is no posted speed limit on Lena Road. Lena Road is classified as a Major Arterial in the City's General Plan.
- **Orange Show Road** is oriented in the east-west direction and is a four-lane roadway. There is a raised median on Orange Show Road from Lena Road to Waterman Avenue. On-street parking is permitted. The speed limit on Orange Show Road is 50 miles per hour. There are no existing bike lanes on Orange Show Road. Orange Show Road is classified as a Major Arterial in the City's General Plan.
- **Norman Road** is oriented in the east-west direction and is a two-lane roadway. There are no raised medians or two-left-tur lanes on Norman Road. On-street parking is prohibited. There is no posted speed limit on Norman Road. There are no existing bike lanes on Norman Road. Norman Road is classified as Local in the City's General Plan.

The City's functional classification of roadways is illustrated in Figure 10. The City's typical street sections are illustrated in Figure 11.

6.2 Existing Transit Service

Public transportation services within the City of San Bernardino and near the proposed project include bus transit service (Omnitrans) and commuter rail transportation (Metrolink). These services are further described below.

Bus Service. Public transportation in the City of San Bernardino is provided by Omnitrans, which is the regional transit operator in San Bernardino County. The following transit routes operate near the project:

- **Route 8** provides service near the project site. Route 8 connects the project area to Redlands, Loma Linda, and the San Bernardino Transfer Center. Near the study area, Route 8 travels along Tippecanoe Avenue and Mill Street. Route 8 operates at 60-minute headways during the week. The nearest stop is located near the intersection of Tippecanoe Waterman Avenue and Orange Show Road.
- **Route 305** serves the City of San Bernardino and Grand Terrace, connecting with the San Bernardino Transit Center, the Montecito Memorial Park, and the Grand Terrace Civic Center. Headways are 60-minutes on
- weekdays and weekends. The nearest stop is near the intersection of Waterman Avenue and Orange Show Road.

Commuter Rail Service. Commuter rail service is provided by Metrolink, which is operated by the Southern California Regional Rail Authority (SCRRA). Metrolink train service is available between the counties of Ventura, Los Angeles, San Bernardino, Orange, Riverside, and north San Diego. The area is served by the San Bernardino Line, which runs east-west between the San Bernardino Station and the Los Angeles Union Station. The San Bernardino Station is the nearest

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Table G: Other Proposed Projects Trip Generation

Project Number	Location	Land Use	Quantity	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
1	1195 S. Waterman Ave	Gasoiline Station w/Convenience Market [1]									
		Trip Generation Rates	18	FP	8.03	8.03	16.06	9.21	9.21	18.42	265.12
		Trip Generation			145	145	289	166	166	332	4,772
		Pass-By Trips			(110)	(110)	(220)	(124)	(124)	(249)	(468)
		Total Net Trip Generation			35	35	69	41	41	83	4,304
2	NWC Central Ave/Tippecanoe Ave	Gasoiline Station w/Convenience Market [1]									
		Trip Generation Rates	8	FP	8.03	8.03	16.06	9.21	9.21	18.42	265.12
		Trip Generation			64	64	128	74	74	147	2,121
		Pass-By Trips			(39)	(39)	(77)	(41)	(41)	(83)	(160)
		Total Net Trip Generation			26	26	51	32	32	65	1,961
		Fast-Food Restaurant [2]									
		Trip Generation Rates	7	TSF	25.04	18.14	43.18	16.61	16.61	33.21	450.49
		Trip Generation			173	125	298	115	115	229	3,108
		Pass-By Trips			(74)	(74)	(149)	(63)	(63)	(126)	(275)
		Total Net Trip Generation			98	51	149	52	52	103	2,833
3	NWC of Waterman Ave/Ennis St	Warehousing [3]									
		Trip Generation (Passenger Cars)	343	TSF	18	3	21	8	23	31	405
		Trip Generation (Truck PCEs)			8	11	19	16	26	42	207
4	SEC Waterman Ave/Central Ave	Warehousing [4]									
		Trip Generation (Passenger Cars)	198	TSF	24	6	30	7	23	30	225
		Trip Generation (Truck PCEs)			8	3	11	8	9	17	324
5	SEC Benedict Rd/Sunnyside Ave	Warehousing [4]									
		Trip Generation (Passenger Cars)	173	TSF	21	5	26	6	20	26	197
		Trip Generation (Truck PCEs)			8	3	11	5	9	14	285
6	SWC Central Ave/Lena Rd	Warehousing [5]									
		Trip Generation (Passenger Cars)	135	TSF	14	5	19	6	15	21	188
		Trip Generation (Truck PCEs)			8	8	16	5	14	19	136
7	NEC Foisy St/Central Ave	Warehousing [4]									
		Trip Generation (Passenger Cars)	3	TSF	0	0	0	0	0	0	4
		Trip Generation (Truck PCEs)			0	0	0	0	0	0	3
8	SEC Foisy St/Central Ave	Warehousing [6]									
		Trip Generation (Passenger Cars)	447	TSF	49	14	63	19	52	71	647
		Trip Generation (Truck PCEs)			34	10	44	14	36	50	451
9	NEC Lena Rd/Norman Rd	Warehousing [7]									
		Trip Generation (Passenger Cars)	231	TSF	12	3	15	5	14	19	272
		Trip Generation (Truck PCEs)			7	3	10	2	8	10	131
10	NWC Lena Rd/Central Ave	Warehousing [4]									
		Trip Generation (Passenger Cars)	155	TSF	18	5	23	5	18	23	176
		Trip Generation (Truck PCEs)			8	3	11	8	6	14	253
11	NWC Lena Rd/Norman Rd	Warehousing [6]									
		Trip Generation (Passenger Cars)	305	TSF	11	-1	10	1	12	13	284
		Trip Generation (Truck PCEs)			8	9	17	3	6	9	269
12	791 Waterman Ave	Warehousing [4]									
		Trip Generation (Passenger Cars)	89	TSF	10	3	13	3	10	13	102
		Trip Generation (Truck PCEs)			0	3	3	6	3	9	144
13	South of Brier Dr	Hotel									
		Trip Generation Rates [9]	113	Rooms	0.26	0.20	0.46	0.30	0.29	0.59	7.99
		Trip Generation			29	23	52	34	33	67	903
14	SEC Waterman Ave/Hospitality Ln	Fast-Food With Drive-Thru									
		Trip Generation Rates [10]	2	TSF	22.75	21.86	44.61	17.18	15.85	33.03	467.18
		Trip Generation			47	45	91	35	33	68	958
		Pass-By Trips			(23)	(23)	(46)	(19)	(19)	(37)	(83)
		Total Net Trip Generation			24	22	46	17	14	30	875

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Table G: Other Proposed Projects Trip Generation

Project Number	Location	Land Use	Quantity	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
15	East of Ferree St, West of Richardson St, North of I-10	Single-Family Detached Housing									
		Trip Generation Rates [11]	96	DU	0.18	0.52	0.70	0.59	0.35	0.94	9.43
		Trip Generation			17	50	67	57	33	90	905
16	South of Hospitality Ln, West of Tippecanoe Ave	Coffee Shop									
		Trip Generation Rates [12]	1	TSF	43.80	42.08	85.88	19.50	19.50	38.99	533.57
		Trip Generation			42	40	82	19	19	37	507
		Pass-By Trips			(34)	(34)	(68)	(15)	(15)	(31)	(98)
		Total Net Trip Generation			8	6	14	3	3	6	408
17	East side of Sierra Way, 200 feet south of Rialto Ave	Office Park [13]									
		Trip Generation Rates	31	TSF	1.34	0.18	1.52	0.24	1.20	1.44	10.84
		Trip Generation			41	6	47	8	37	44	334
Total Trip Generation					**552**	**322**	**874**	**374**	**555**	**929**	**17,496**

Notes: TSF = Thousand Square Feet, FP = Fueling Positions

[1] Trip generation based on rates for Land Use 945 - "Gasoline/Service Station With Convenience Market" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

[2] Trip generation based on rates for Land Use 933 - "Fast-Food Restaurant without Drive-Through Window" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

[3] Rates based on Land Use 154 - "High-Cube Transload and Short-Term Storage Warehouse" from Institute of Transportation Engineers (ITE) Trip Generation (11th Ed.).

[4] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (11th Ed.).

[5] Trip Generation from "Valley View Warehouse TIA" from Translutions (May, 2018.)

[6] Trip Generation from "Foisy East Warehouse Traffic Impact Study" from Kimley Horn (June, 2020.)

[7] Trip Generation from "Gateway South 7 Warehouse TIA" from Translutions (September, 2021.)

[8] Trip Generation from "Gateway South 8 Warehouse TIA" from Translutions (July, 2022.)

[9] Trip generation based on rates for Land Use 310 - "Hotel" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

[10] Trip generation based on rates for Land Use 934 - "Fast-Food Restaurant with Drive-Through" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

[11] Trip generation based on rates for Land Use 210 - "Single-Family Detached Housing" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

[12] Trip generation based on rates for Land Use 937 - "Coffee/Donut Shop with Drive-Through Window" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

[13] Trip generation based on rates for Land Use 710 - "General Office Building" from Institute of Transportation Engineers' (ITE) *Trip Generation* (11th Edition).

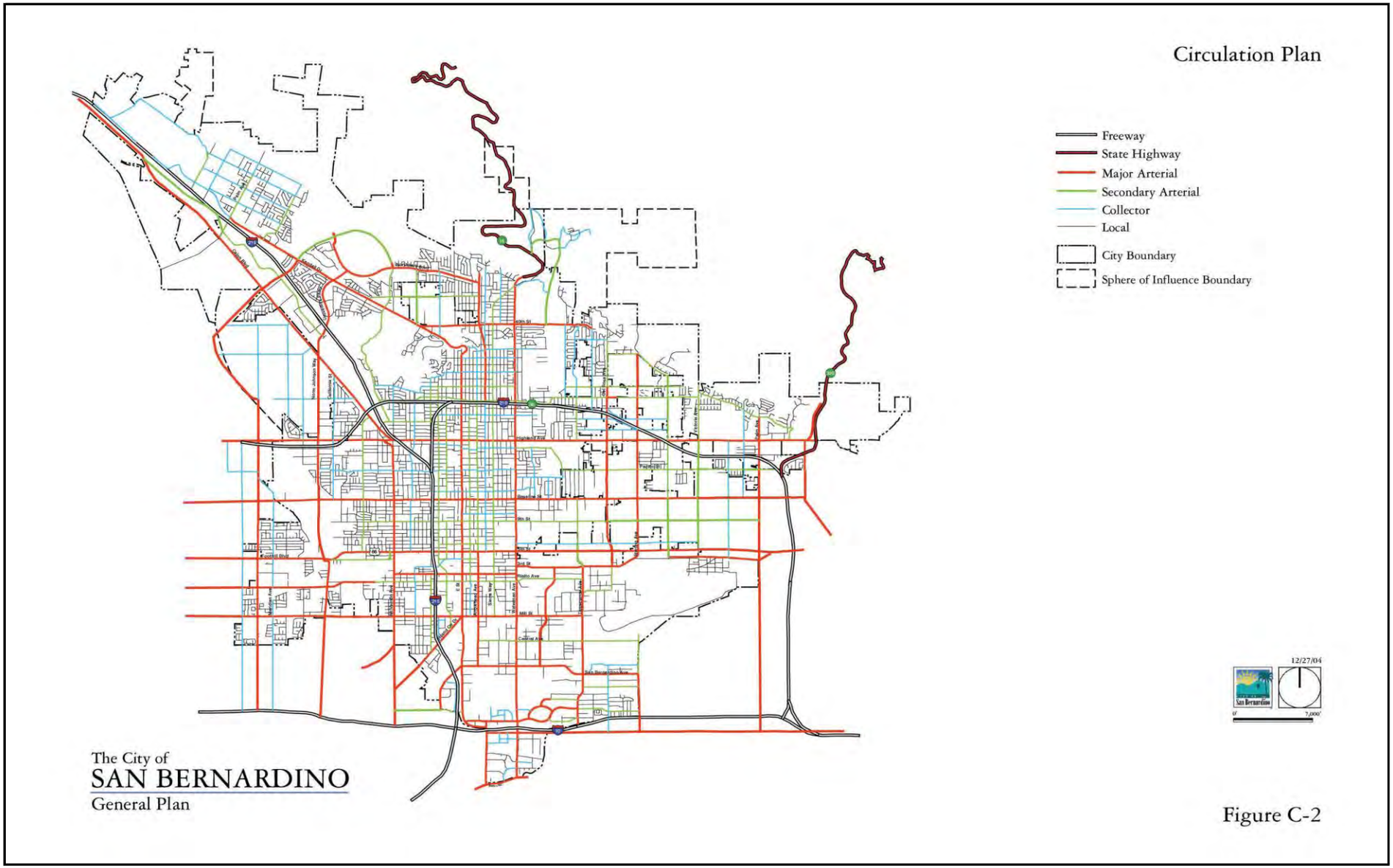


FIGURE 10

Gateway South 9 Warehouse
City of San Bernardino Circulation Plan

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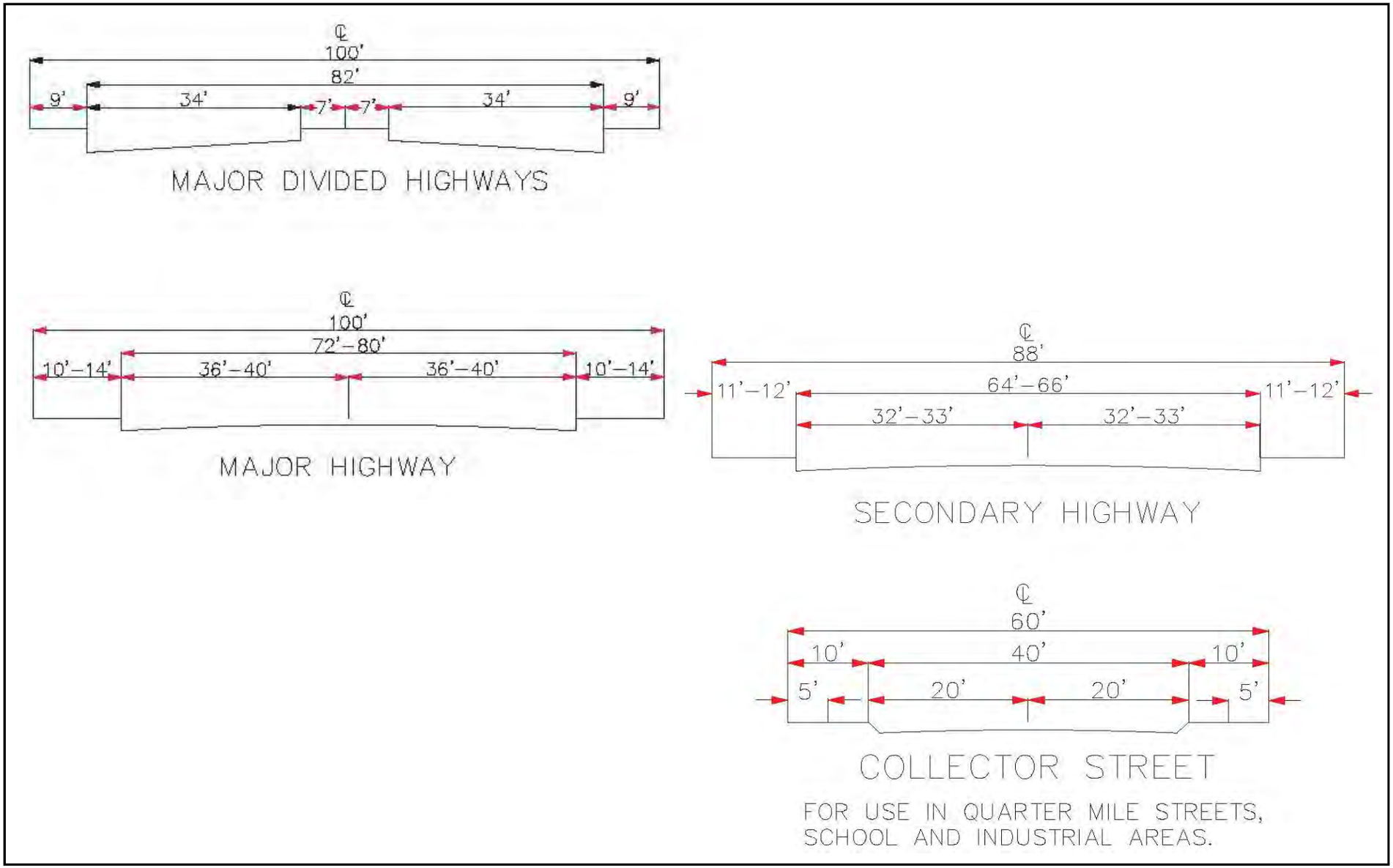


FIGURE 11

Gateway South 9 Warehouse
City of San Bernardino Roadway Cross-Sections

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D:\Projects\Hillwood - GWS9\Analysis\Z30 City Cross-Sections (11/28/2022)

Metrolink station to the project site and is approximately 2 miles from the project area. Figure 12 illustrates the transit lines within the project area.

6.3 Existing Bicycle & Pedestrian Facilities

The City's bikeway network includes three types of facilities and are discussed below:

- **Class I Bikeways** A Class I bikeway is a dedicated travel-way for bicyclists. The most common applications for these facilities are along rivers, canals, and utility rights-of-way, within college campuses, or within and between parks.
- **Class II Bikeways** Class II bikeways delineate the right-of-way assigned to bicyclists along roadways. Bike lane signs and pavement markings help define these bike lanes.
- **Class III Bikeways** Class III bikeways are shared facilities that serve either to provide continuity to other bicycle facilities or designate preferred routes through high demand corridors. These facilities are normally shared with motor vehicles on the street, or with pedestrians on sidewalks.

Figure 13 illustrates the existing bike lanes within the project area. As shown in Figure 13, there are no existing bike lanes on Lena Road, Norman Road, and Orange Show Road within the project area. Figure 14 illustrates the existing pedestrian facilities near the project. As illustrated in Figure 14, there are no sidewalks adjacent to the project on Norman Road. Lena Road has continuous sidewalks adjacent to the project and sidewalks are continuous on Orange Show Road.

6.4 Existing Intersection Levels of Service

An intersection level of service analysis was conducted for existing conditions to determine current circulation system performance. Figure 15 shows the existing lane geometrics and stop controls at the study intersections. Existing traffic volumes at study intersections are shown in Figure 16. Detailed volume development worksheets are included in Appendix C. The existing levels of service for the study area intersections are summarized in Table H. Level of service calculation worksheets are contained in Appendix D. As shown in Table H, all study area intersections are currently operating at satisfactory levels of service with the exception of the following:

- Lena Road and Orange Show Road (p.m. peak hour).

7.0 OPENING YEAR (2024) CONDITIONS

This section discusses opening year transportation conditions in the study area. It is anticipated that the project will open in 2024.

7.1 Opening Year (2024) Roadway Conditions

Opening year roadway conditions are assumed to be the same as those under existing conditions. However, it should be noted that a traffic signal is planned to be installed at the intersection of Lena Road and Orange Show Road prior to opening year (2024). Therefore, a traffic signal at Lena Road and Orange Show Road has been included in the opening year (2024) scenarios. Figure 17 illustrates the intersection geometrics and stop control for opening year (2024) conditions.

7.2 Opening Year (2024) Transit Service

Transit service under opening year conditions is anticipated to remain the same as under existing conditions.

7.3 Opening Year (2024) Pedestrian & Bicycle Facilities

Pedestrian and bicycle facilities under opening year conditions are anticipated to remain the same as under existing conditions. It should be noted that the City is proposing Class II bike lanes on Orange Show Road. Previously referenced Figure 13 illustrates the proposed bike lanes.

7.4 Opening Year (2024) Base Intersection Levels of Service

An intersection level of service analysis was conducted for opening year (2024) base conditions to determine circulation system performance. Opening year (2024) base traffic volumes at study intersections are shown in Figure 18. Detailed volume development worksheets are included in Appendix C. Opening year (2024) base levels of service for the study



Legend

Project Boundary — Route 305 — Route 8

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FIGURE 12
Gateway South 9 Warehouse
Transit Facilities

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Legend

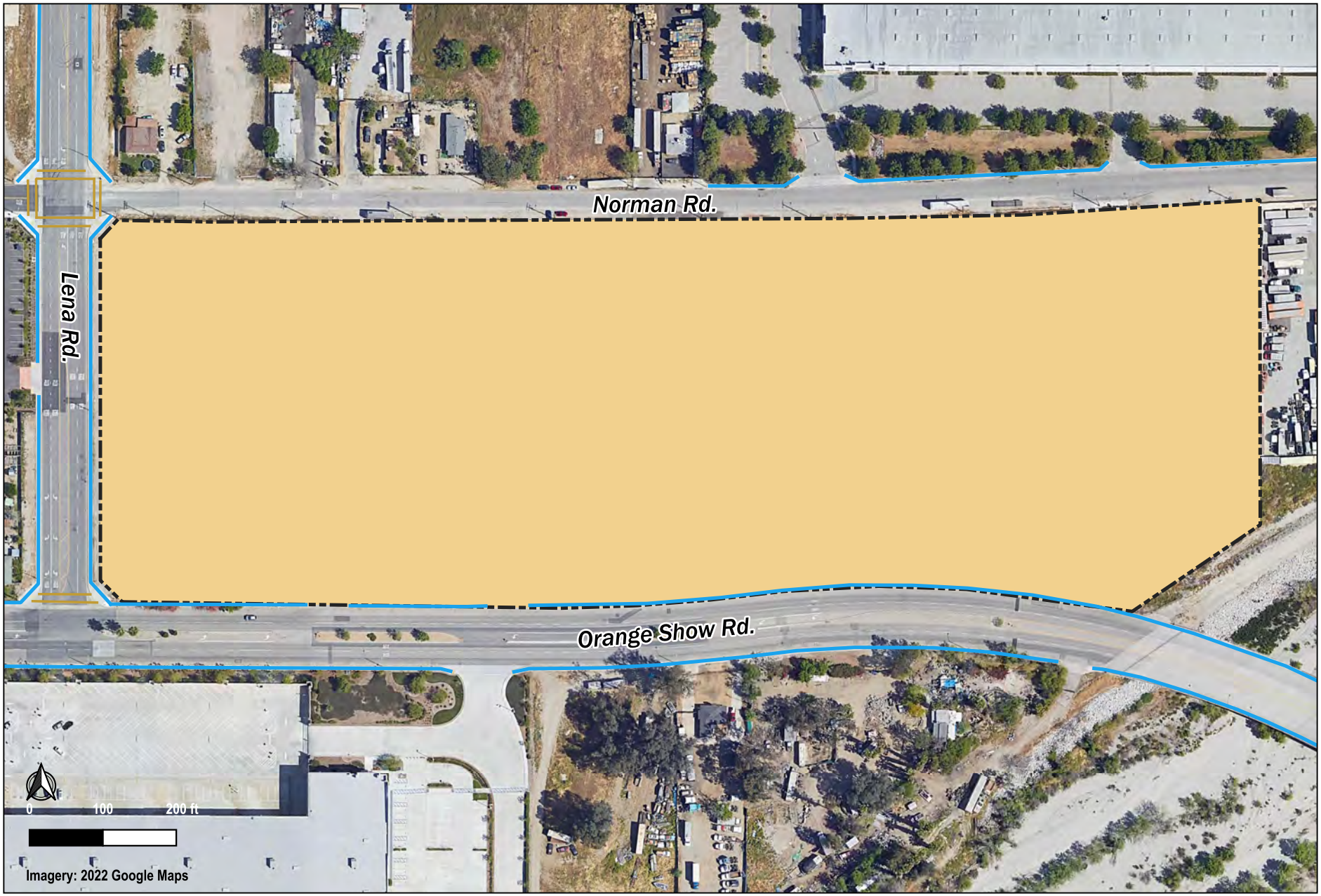
Project Boundary Proposed Class II Exist Class II

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FIGURE 13

Gateway South 9 Warehouse
City of San Bernardino Existing and Proposed Bike Lanes

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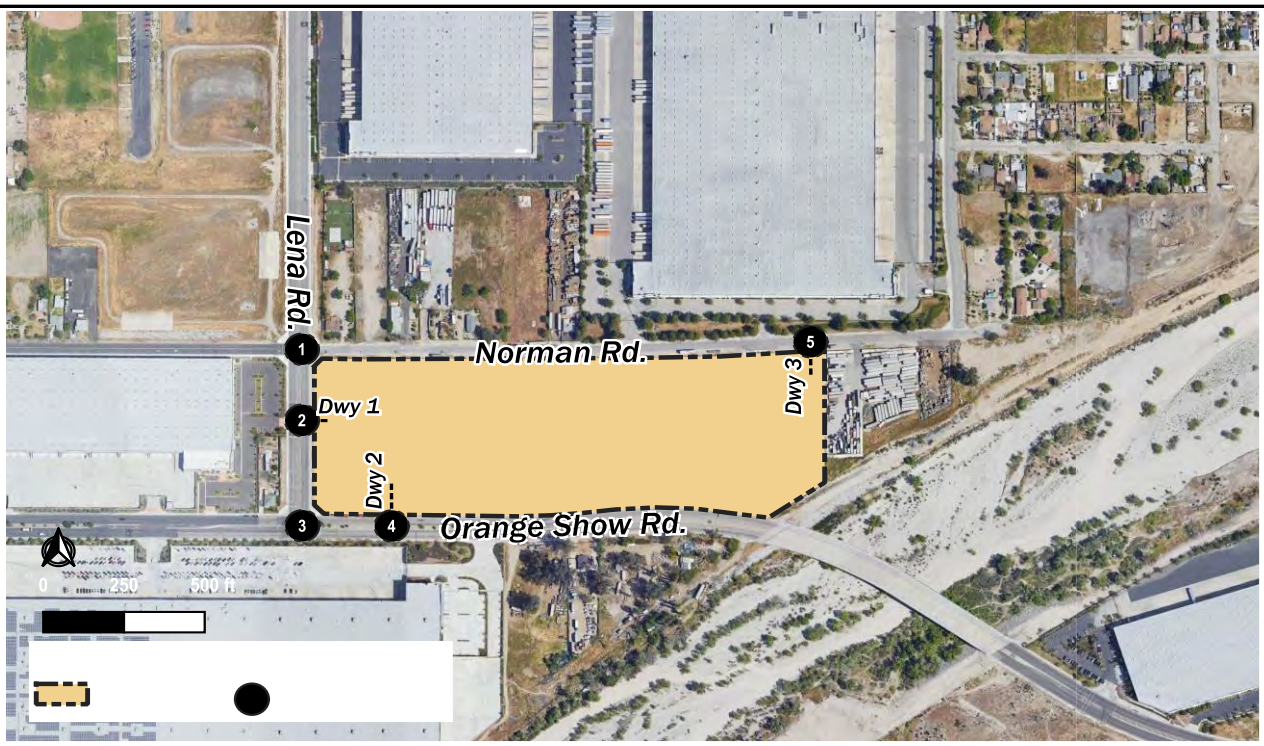
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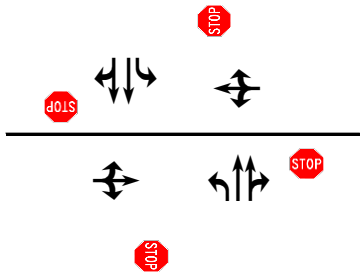
Project Boundary — Sidewalks — Crosswalks

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FIGURE 14
Gateway South 9 Warehouse
Pedestrian Facilities

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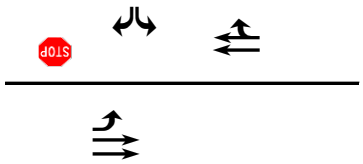




1 Lena Road/Norman Road

Future Intersection

2 Lena Road/Driveway 1



3 Lena Road/Orange Show Road

Future Intersection

4 Driveway 2/Orange Show Road

Future Intersection

5 Driveway 3/Norman Road

FIGURE 15

Legend

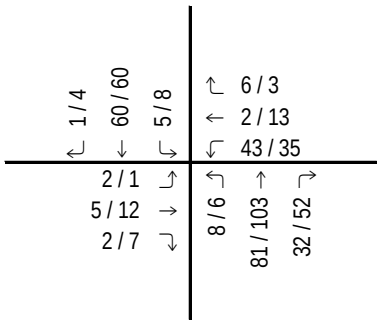
Signal

STOP Stop Sign

Gateway South 9 Warehouse
Existing Intersection Lane Geometrics and Stop Control

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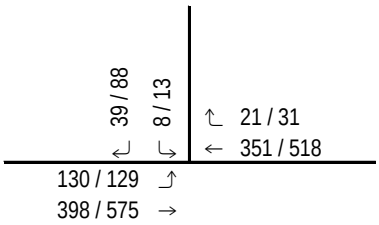




1 Lena Road/Norman Road

Future Intersection

2 Lena Road/Driveway 1



3 Lena Road/Orange Show Road

Future Intersection

4 Driveway 2/Orange Show Road

Future Intersection

5 Driveway 3/Norman Road

FIGURE 16

XXX / YYY AM / PM PCE Volumes

Gateway South 9 Warehouse
Existing Peak Hour Traffic Volumes (PCEs)

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Table H: Existing Levels of Service

Intersection	Jurisdiction	LOS Standard	Control	Without Project						
				AM Peak Hour			PM Peak Hour			
				Delay	V/C	LOS	Delay	V/C	LOS	
1 . Lena Road/Norman Road	San Bernardino	D	AWSC	8.1	-	A	8.1	-	A	
2 . Lena Road/Driveway 1	San Bernardino	D	TWSC	*Future Intersection*						
3 . Lena Road/Orange Show Road	San Bernardino	D	TWSC	21.2	0.04	C	38.6	0.13	E	*
4 . Driveway 2/Orange Show Road	San Bernardino	D	TWSC	*Future Intersection*						
5 . Driveway 3/Norman Road	San Bernardino	D	TWSC	*Future Intersection*						

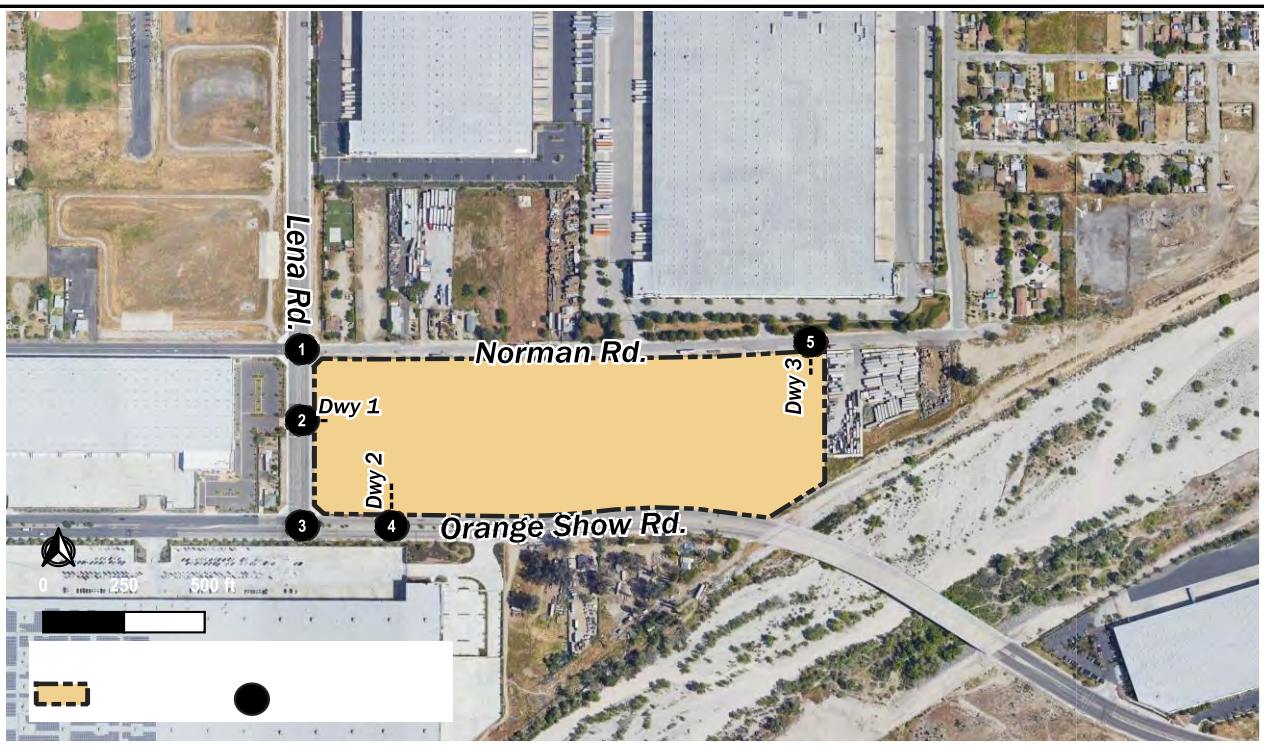
Notes:

* Exceeds LOS Standard

LOS = Level of Service

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case movement.

operating at LOS C or worse are reported from HCM 6th Edition movement that defines LOS.



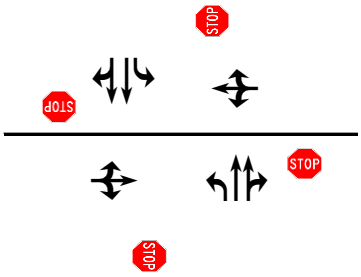
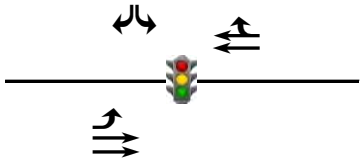
	Future Intersection	
1 Lena Road/Norman Road	2 Lena Road/Driveway 1	3 Lena Road/Orange Show Road
Future Intersection	Future Intersection	
4 Driveway 2/Orange Show Road	5 Driveway 3/Norman Road	

FIGURE 17

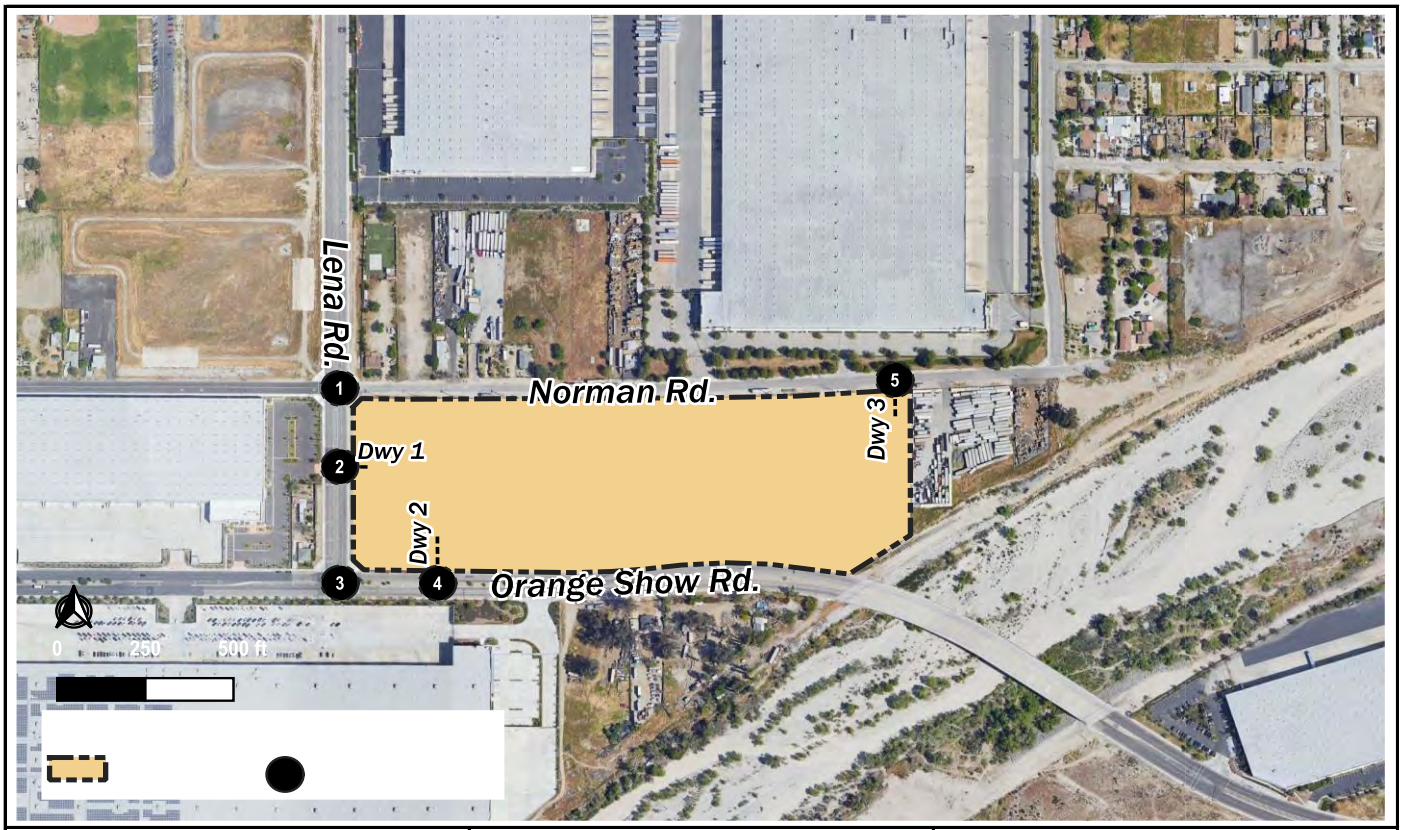
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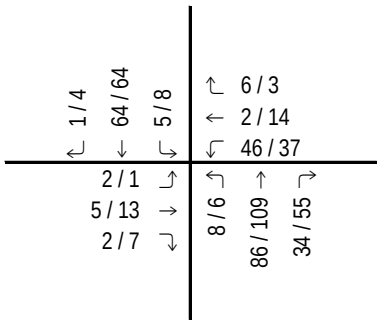
Signal

Stop Sign

Gateway South 9 Warehouse
Opening Year (2024) Base Intersection Lane Geometrics and Stop Control

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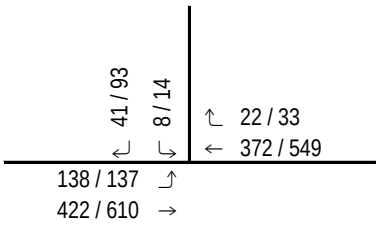




1 Lena Road/Norman Road

Future Intersection

2 Lena Road/Driveway 1



3 Lena Road/Orange Show Road

Future Intersection

4 Driveway 2/Orange Show Road

Future Intersection

5 Driveway 3/Norman Road

FIGURE 18

XXX / YYY AM / PM PCE Volumes

Gateway South 9 Warehouse
Opening Year (2024) Base Peak Hour Traffic Volumes (PCEs)

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area intersections are summarized in Table I. Level of service calculation worksheets are contained in Appendix D. As shown in Table I, all study area intersections are forecast to operate at satisfactory levels of service.

7.5 Opening Year (2024) Base plus Other Proposed Projects Intersection Levels of Service

An intersection level of service analysis was conducted for opening year (2024) base plus other proposed projects to determine circulation system performance. Opening year (2024) base plus other proposed projects traffic volumes at study intersections are shown in Figure 19. The opening year base plus other proposed projects levels of service for the study area intersections are summarized in Table J. Level of service calculation worksheets are contained in Appendix D. As shown in Table J, all study area intersections are forecast to operate at satisfactory levels of service.

7.6 Opening Year (2024) Base plus Other Proposed Projects plus Project Intersection Levels of Service

An intersection level of service analysis was conducted for opening year (2024) base plus other proposed projects plus project to determine circulation system performance. Opening year (2024) base plus other proposed projects plus project traffic volumes at study intersections are shown in Figure 20. The opening year base plus other proposed projects plus project levels of service for the study area intersections are summarized in Table J. Level of service calculation worksheets are contained in Appendix D. As shown in Table J, all study area intersections are forecast to operate at satisfactory levels of service.

8.0 VMT ANALYSIS

Based on the City guidelines, there are three types of screening criteria that lead agencies can apply to screen projects from a project-level VMT assessment. These screening steps include Transit Priority Area Screening, Low VMT Area Screening, Project Type Screening. The SBCTA low VMT area screening tool is included in Appendix E. The project does not screen out from any of the steps mentioned above and therefore, a complete VMT analysis and forecasting through the SBTAM model was conducted to determine if the project may have a significant VMT impact. The VMT analysis included below analyzes the project generated VMT and project effect on VMT consistent with the City guidelines. Based on the City guidelines, this report analyzes the project generated VMT and project effect on VMT for the following scenarios:

1. Baseline conditions.
2. Baseline plus project conditions.
3. Year 2040 without project conditions; and
4. Year 2040 plus project conditions.

CEQA VMT Impact Thresholds

The City guidelines have established thresholds of significance for project generated VMT for use as part of the environmental review process under CEQA. The following would result in a significant project generated VMT:

The baseline plus project generated VMT per service population exceeds the City of San Bernardino General Plan Buildout VMT per service population, or

1. The cumulative (2040) plus project generated VMT per service population exceeds the City of San Bernardino General Plan Buildout VMT per service population.

The project's effect on VMT would be considered significant if it resulted in the cumulative link-level boundary VMT per service population within the City of San Bernardino to increase under the plus project condition to the no project condition.

Project Generated VMT

The project generated VMT per service population is compared back to the appropriate benchmark noted in the Impact thresholds section above under baseline and year 2040 conditions.

Table I: Opening Year (2024) Base Levels of Service

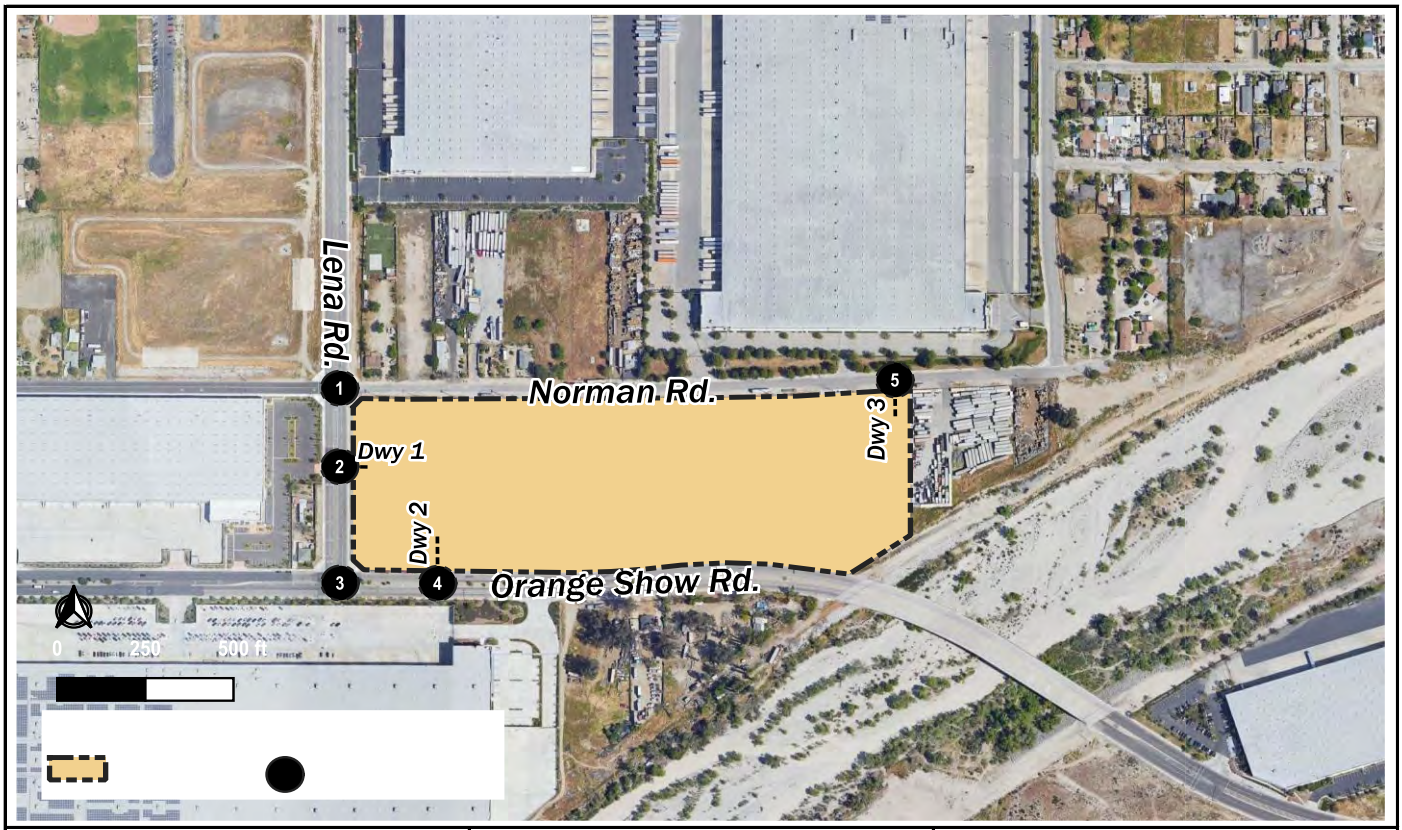
Intersection	Jurisdiction	LOS Standard	Control	Without Project					
				AM Peak Hour			PM Peak Hour		
				Delay	V/C	LOS	Delay	V/C	LOS
1 . Lena Road/Norman Road	San Bernardino	D	AWSC	8.1	-	A	8.2	-	A
2 . Lena Road/Driveway 1	San Bernardino	D	TWSC	*Future Intersection*					
3 . Lena Road/Orange Show Road	San Bernardino	D	Signal	20.5	-	C	22.2	-	C
4 . Driveway 2/Orange Show Road	San Bernardino	D	TWSC	*Future Intersection*					
5 . Driveway 3/Norman Road	San Bernardino	D	TWSC	*Future Intersection*					

Notes:

* Exceeds LOS Standard

LOS = Level of Service

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case movement.



1 Lena Road/Norman Road	2 Lena Road/Driveway 1	3 Lena Road/Orange Show Road
8 / 10 ↲ 80 / 98 ↓ 6 / 8 ↳ | 6 / 4 ↰ 3 / 15 ← 46 / 39 ↶ | 9 / 8 ↴ 6 / 14 → 3 / 12 ↲ | 12 / 7 ↰ 119 / 129 ↑ 36 / 56 ↱	*Future Intersection*	51 / 115 ↲ 14 / 33 ↳ | 37 / 42 ↰ 385 / 565 ← | 158 / 149 ↴ 434 / 629 →
4 Driveway 2/Orange Show Road	**5 Driveway 3/Norman Road**	
Future Intersection	*Future Intersection*	

FIGURE 19

XXX / YYY AM / PM PCE Volumes

Gateway South 9 Warehouse
Opening Year (2024) Base Plus Other Approved Projects
Peak Hour Traffic Volumes (PCEs)

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Table J: Opening Year Base Plus Other Projects Levels of Service

Intersection	Jurisdiction	LOS Standard	Control	Without Project						With Project						V/C Change	
				AM Peak Hour			PM Peak Hour			AM Peak Hour			PM Peak Hour			AM	PM
				Delay	V/C	LOS	Delay	V/C	LOS	Delay	V/C	LOS	Delay	V/C	LOS		
1 . Lena Road/Norman Road	San Bernardino	D	AWSC	8.4	-	A	8.5	-	A	8.4	-	A	8.4	-	A	-	-
2 . Lena Road/Driveway 1	San Bernardino	D	TWSC	*Future Intersection*						0.01	-	A	8.9	-	A	-	-
3 . Lena Road/Orange Show Road	San Bernardino	D	Signal	23.7	0.34	C	24	0.49	C	23.9	0.34	C	24.4	0.49	C	0	0
4 . Driveway 2/Orange Show Road	San Bernardino	D	TWSC	*Future Intersection*						9.7	-	A	10.5	-	B	-	-
5 . Driveway 3/Norman Road	San Bernardino	D	TWSC	*Future Intersection*						9.1	-	A	9.3	-	A	-	-

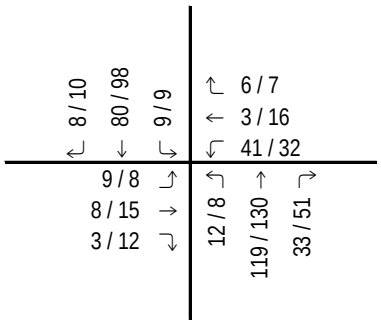
Notes:

* Exceeds LOS Standard

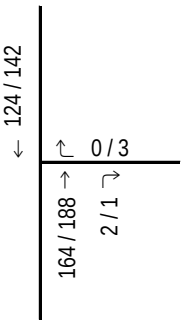
LOS = Level of Service

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case movement.

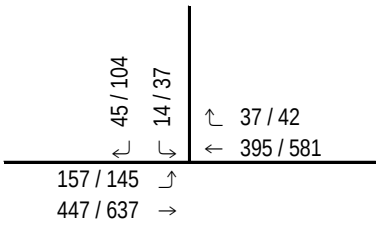




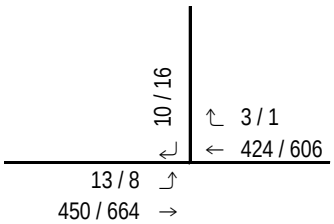
1 Lena Road/Norman Road



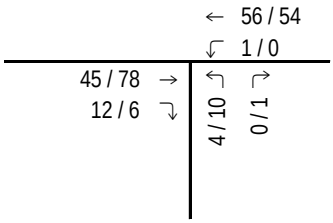
2 Lena Road/Driveway 1



3 Lena Road/Orange Show Road



4 Driveway 2/Orange Show Road



5 Driveway 3/Norman Road

FIGURE 20

XXX / YYY AM / PM PCE Volumes

Gateway South 9 Warehouse
Opening Year (2024) Base Plus Other Approved Projects Plus Project Peak Hour Traffic Volumes (PCEs)

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Baseline Conditions

The baseline VMT conditions is derived from the SBCTA Screening tool. The baseline VMT per service population from the screening tool is 29.6 miles.

Baseline Plus Project Conditions

The baseline plus project conditions was derived from a SBTAM model run by adding the project related Socio-Economic Data (SED), which is based on SCAG's employee forecast data to Traffic Analysis Zone (TAZ) 53806201 and moving the baseline no project SED data to an adjacent TAZ. The project was coded using a service population of 260. The project generated VMT was extracted from the model using the origin-destination trip matrix. Table K shows the baseline plus project VMT per service population. As shown in Table K, the baseline plus project VMT per service population is 24.9 miles. Based on the City thresholds, a project would have a significant VMT impact if the baseline plus project generated VMT per service population exceeds the City's General Plan Buildout VMT per service population of 31.6 miles. The baseline plus project VMT per service population is 24.9 miles, which is less than the City's General Plan Buildout VMT per service population of 31.6 miles, therefore, the project does not have an VMT impact under baseline plus project conditions.

Table K: Project Generated VMT

Baseline	Project
Population	-
Employment	260
Service Population	260
Homebased Work (HBW) VMT*	4,410
OD VMT*	6,469
HBW VMT per employee	17.0
OD VMT per service population	**24.9**
City Threshold**	**31.6**
Impact Less Than Significant?	**Yes**
2040	**Project**
Population	-
Employment	260
Service Population	260
Homebased Work (HBW) VMT*	4,346
OD VMT*	7,166
HBW VMT per employee	16.7
OD VMT per service population	**27.6**
City Threshold**	**31.6**
Impact Less Than Significant?	**Yes**

**: Derived from a SBTAM model run by adding project related SED, based on SCAG's employee forecast data. .*

***: Obtained from SBCTA SB743 screening tool (https://www.gosbcta.com/vmtscreening)*

Year 2040 Conditions

The year 2040 VMT per service population is derived from the SBCTA Screening tool. the year 2040 VMT per service population from the screening tool is 31.6 miles.

Year 2040 Plus Project Conditions

The year 2040 plus project conditions was derived from a SBTAM model run by adding the project related Socio-Economic Data (SED), which is based on SCAG's employee forecast data to Traffic Analysis Zone (TAZ) 53806201 and moving the year 2040 no project SED data to an adjacent TAZ. The project was coded using a service population of 260. The project generated VMT was extracted from the model using the origin-destination trip matrix. Table K shows the year 2040 plus project VMT per service population. As shown in Table K, the year 2040 plus project VMT per service population is 27.6 miles. The year 2040 VMT per service population for the City is 31.6 miles. Based on the City thresholds, a project would have a significant VMT impact if the year 2040 plus project generated VMT per service population exceeds the City's General Plan Buildout VMT per service population. The year 2040 plus project VMT per service population is 27.6 miles, which is less than the City's General Plan Buildout VMT per service population of 31.6 miles, and therefore, the project does not have an VMT impact under year 2040 plus project conditions.

Project Effect on VMT

The project effect on VMT compares how the project changes VMT on the Citywide network and compares it to the no project condition under baseline and year 2040 conditions. The project effect on VMT was estimated using the SBTAM using the City of San Bernardino boundary and extracting the total link-level VMT for both the without and with project conditions consistent with the City guidelines.

Baseline Plus Project Conditions

Table L below shows the baseline plus project effect on VMT per service population. As shown in Table L, the baseline plus project VMT per service population is 10.976 miles. The baseline no project VMT per service population for the City is 11.017 miles. Based on the City thresholds, a project would have a significant VMT impact if the baseline VMT per service population within the City increases under the plus project condition compared to the no project condition. The baseline plus project VMT per service population does not increase when compared to the no project condition, therefore, the project does not have an VMT impact under baseline plus project conditions.

Year 2040 Plus Project Conditions

Table L below shows the year 2040 plus project VMT per service population. As shown in Table L, the year 2040 plus project VMT per service population is 12.379 miles. The year 2040 no project VMT per service population for the City is 12.385 miles. Based on the City thresholds, a project would have a significant VMT impact if the year 2040 VMT per service population within the City increases under the plus project condition compared to the no project condition. The year 2040 plus project VMT per service population does not increase when compared to the no project condition, therefore, the project does not have an VMT impact under year 2040 plus project conditions.

Table L: Project Effect on VMT

	With Project	Without Project	Difference
Baseline			
Roadway VMT	3,555,963	3,566,315	-
Service Population	323,982	323,722	-
VMT per service population	**10.976**	**11.017**	**-0.041**
Year 2040			
Roadway VMT	4,665,050	4,664,057	-
Service Population	376,857	376,597	-
VMT per service population	**12.379**	**12.385**	**-0.006**

9.0 SUMMARY & CONCLUSIONS

The project proposes the construction of approximately 397,400 square feet of high-cube warehousing uses. Access to the project will be provided via three driveways. Driveway 1 is located on Lena Road and is a right-in/right-out access driveway. Driveway 2 is located on Orange Show Road and will allow left turns in via an existing curb cut with left turn pocket as well as right-in/right-out-access. Driveway 3 is located on Norman Road and is a full-access driveway for autos and trucks. Under existing conditions, the intersection of Lena Road and Orange Show Road is forecast to operate at unsatisfactory LOS. A traffic signal is planned to be installed at the intersection of Lena Road and Orange Show Road prior to opening year (2024). Therefore, a traffic signal at Lena Road and Orange Show Road has been included in the opening year (2024) scenarios. Under opening year (2024) conditions, all intersections are forecast to operate at satisfactory LOS under with and without project conditions.

APPENDIX A:
APPROVED SCOPING AGREEMENT

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

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

Project Name: Project	Gateway South 9 Warehouse
Address: Project	GWS9 Warehouse
Description:	Southeast corner of Lena Road/Norman Road
Developer's Name:	397,700 SF High-Cube Transload and Short-Term Storage
Address:	Hillwood Investment Properties
Telephone No.	901 Via Piemonte, Suite 175 Ontario, CA 91764
Email address:	909-256-5911 Jason.Huber@hillwood.com

Trip Generation Rates from ITE Latest Edition

	Land Use (1)	Land Use (2)
Land Use (1) / (2)	High-Cube Transload and Short-Term Storage Warehouse	
Development Sq Ft	397,400 SF	
ITE Land Use Code	154	
Daily Trips	708	
AM Peak Hour Trips		
Inbound	32	
Outbound	14	
Total	46	
PM Peak Hour Trips		
Inbound	17	
Outbound	30	
Total	47	(Please see attached Trip Generation Table A)

(Use Additional Sheet(s), if necessary)

Pass-by Trips (%), if applicable: _____ %

	Land Use (1)	Land Use (2)
Land Use (1) / (2)	Existing Use - Drop Lot	Total Net Trips (Proposed - Existing)
ITE Land Use Code	San Bernardino County Rates	
Daily Trips	419	289
AM Peak Hour Trips		
Inbound	10	22
Outbound	9	5
Total	19	27
PM Peak Hour Trips:		
Inbound	9	8
Outbound	13	17
Total	22	25

Project Opening Year: 2024 **Build-out Year:** _____

Study Intersections:

1. Lena Road/Norman Road
2. Lena Road/Driveway 1
3. Lena Road/Orange Show Road
4. Driveway 2/Orange Show
5. Road Driveway 3/Norman Road
6. _____
7. _____
8. _____
9. _____
10. _____

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

City of San Bernardino Public Works / Traffic Engineering Department
Traffic Scope Approval Form
To be completed by applicant consultant and approved by Public Works prior to start of study

Study Roadway Segments: 1 _____ 2 _____
3 _____ 4 _____
5 _____ 6 _____

Proposed Development Use: ☐ Residential ☐ Commercial ☐ Mixed Use ☒ Other

Software Methodology: ☒ Synchro ☐ HCS

Additional issues to be considered:
☐ Traffic calming measures ☐ Queuing Analysis
☐ Bike/Ped Accommodations ☐ Merge Analysis ☐ Gap Analysis
☐ Actuation/Coordination ☐ Safety Analysis ☐ Sight Distance Analysis

Is the project screened from VMT assessment? ☐ Yes ☒ No

VMT Screening Justification: Please see Attachment 1 for VMT analysis.

Ambient Growth Rate: 3 %

Please see Attachment for Trip Distribution and Trip Assignment.

Trip Distribution: East _____% West _____% North _____% South _____%

Consultant Preparer's Name: Translutions

Address: 17632 Irvine Boulevard Suite 200, Tustin, CA 92780

Telephone No. (949) 656-3131 **PE / TE License #:** T2847, C81872

Email Address: sandipan@translutions.com

Signature: Sandipan Bhattacharjee **Date:** 11/4/2022

Approved By (Public Works Department):

Signature: _____ **Date:** 11/14/2022

Name: Azzam Jabsheh **Title:** Traffic Engineer

prepare a TIA
prepare a VMT detailed analysis.

PROJECT DESCRIPTION: The project site is located at the southeast corner of Lena Road and Norman Road in the City of San Bernardino, California. The project includes the construction of 397,400 square feet of High-Cube Transload and Short-Term Storage warehousing. The project includes four project driveways. Driveway 1 is located on Lena Road and is a right-in/right-out access driveway. Driveway 2 is located on Orange Show Road and will allow left turns in via an existing curb cut with left turn pocket as well as right-in/right-out-access. Driveway 3 is located on Norman Road and is a full-access driveway for autos and trucks.

SITE PLAN: Attached Figure 1

PROJECT TRIP GENERATION

Existing Traffic. The project site includes various industrial land uses with multiple driveways on Norman Road and Orange Show Road. However, based on our site visit, there is one trailer parking lot on Norman Road totaling approximately 2 acres that currently generate a significant number of trips. The Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) does not currently have a land use for truck storage facilities. The trip generation for the drop lots have been calculated from the County of San Bernardino guidance on trailer parking trip generation. Table A shows the trip generation of the trailer parking lots. As shown on Table A, the existing trailer parking are anticipated to generate 19 PCE trips during the a.m. peak hour, PCE 22 trips during the p.m. peak hour, and 419 daily PCE trips. The trip rates are included in Appendix A.

Project Traffic. Table B shows the trip generation of the proposed High-Cube Transload and Short-Term Storage use. As shown on Table B, the proposed project is anticipated to generate 46 PCE trips during the a.m. peak hour, 47 PCE trips during the p.m. peak hour, and 708 daily PCE trips. Figures 2 through 5 show the distribution and assignment of truck and auto trips for the proposed project.

The trips from the existing trailer parking were subtracted from the proposed high-cube warehouse trips to develop the total net project trip generation. Table C includes the total net project trip generation. The total net project trip generation is forecast to be 27 a.m. peak hour PCE trips, 25 p.m. peak hour PCE trips, and 289 daily PCE trips. The City guidelines require a traffic impact analysis with a Level of Service analysis for projects that generate 250 or more daily two-way trips. Since the project generates more than 250 daily trips, a traffic impact analysis with Level of Service analysis will be prepared and submitted to the City.

LOS ANALYSIS EVALUATION:

A focused traffic analysis will be conducted at the study area intersections listed below:

1. Lena Road/Norman Road
2. Lena Road/Driveway 2
3. Lena Road/Orange Show Road
4. Driveway 4/Orange Show Road
5. Driveway 5/Norman Road

The LOS analysis will be conducted for the following scenarios:

- Existing Year Traffic Conditions.
- Project Opening Year Base Traffic Conditions.
- Project Opening Year Base Plus Other Proposed Projects Traffic Conditions.
- Project Opening Year Base Plus Other Proposed Projects Plus Project Conditions.

With Project Adjustment to Existing Volumes. As stated previously, the project site includes an existing trailer parking facility that will be removed when the project is completed. To account for the existing trailer parking trips

already on the roadway network, the existing volumes will be adjusted by removing the trip assignment for the existing parking facility and adding the proposed project trips under the with project scenarios.

VMT SCREENING ANALYSIS: The City VMT guidelines include three types of screening that lead agencies can apply to effectively screen projects from project-level assessment. The screening steps are Transit Priority Area Screening, Low VMT Area Screening, and Project Type Screening. Based on an initial assessment of the screening steps, the project does not meet any of the screening requirements and a project-level VMT assessment will be conducted.

VMT ANALYSIS: The SBTAM will be modified to include the project socio-economic data. A model run will be conducted to calculate project VMT. The analysis will include project generated VMT and the project effect on VMT estimates for the project TAZ under baseline and year 2040 conditions. The VMT data extraction will be conducted based on the "Detailed VMT Forecasting Information" included in the City's Guidelines.



FIGURE 1

Gateway South 9 Warehouse
Site Plan

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D:\Projects\Hillwood - GWS9\scope\Z30 Site Plan Landscape (10/5/2022)

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Table A - Existing Trip Generation

Land Use	Units[1]	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Truck Terminal	2.00 Ac.							
Trip Generation Rates[2]		1.936	1.584	3.520	1.950	2.030	3.980	76.840
PCE Inbound/Outbound Splits		55%	45%	100%	49%	51%	100%	50%/50%
Vehicle Mix[3]								
Passenger Cars		13.30%	13.30%	13.30%	13.30%	13.30%	13.30%	13.30%
4-Axle Trucks		86.70%	86.70%	86.70%	86.70%	86.70%	86.70%	86.70%
Total Trips								
Passenger Cars		1	0	1	0	1	1	20
4-Axle+ Trucks		3	3	6	3	4	7	133
Total Vehicle Trips		**4**	**3**	**7**	**3**	**5**	**8**	**153**
Total PCE Trips								
Passenger Cars		1	0	1	0	1	1	20
4-Axle+ Trucks		9	9	18	9	12	21	399
Total Vehicle Trips		**10**	**9**	**19**	**9**	**13**	**22**	**419**

[1] Ac = Acres

[2] Rates provided by County of San Bernardino.

[3] Appendix A includes County of San Bernardino rates.

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Table B: Project Trip Generation (HCW)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.062	0.018	0.080	0.028	0.072	0.100	1.400
PCE Inbound/Outbound Splits		69%	31%	100%	31%	69%	100%	100%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		84.09%	44.57%	75.00%	83.21%	92.64%	90.00%	84.29%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.052	0.008	0.060	0.023	0.067	0.090	1.180
2-Axle Trucks								
Recommended Mix (%)[2]		2.69%	9.39%	4.23%	2.84%	1.25%	1.69%	2.66%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.003	0.003	0.007	0.002	0.002	0.003	0.075
3-Axle Trucks								
Recommended Mix (%)[2]		3.61%	12.59%	5.68%	3.81%	1.67%	2.27%	3.57%
PCE Factor[3]		2.5	2.5	2.5	2.5	2.5	2.5	2.5
PCE Rates		0.006	0.006	0.011	0.003	0.003	0.006	0.125
4-Axle Trucks								
Recommended Mix (%)[2]		9.60%	33.46%	15.09%	10.13%	4.44%	6.04%	9.48%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.018	0.018	0.036	0.009	0.010	0.018	0.398
Warehouse Net PCE Rate		**0.078**	**0.036**	**0.114**	**0.036**	**0.081**	**0.117**	**1.778**
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	397.400 TSF							
Passenger Cars		**21**	**3**	**24**	**9**	**27**	**36**	**469**
2-Axle Trucks		0	1	1	1	0	1	15
3-Axle Trucks		1	1	2	1	0	1	20
4+ Axle Trucks		3	2	5	1	1	2	53
All Trucks		**4**	**4**	**8**	**3**	**1**	**4**	**88**
Total Vehicles		**25**	**7**	**32**	**12**	**28**	**40**	**557**
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		**21**	**3**	**24**	**9**	**27**	**36**	**469**
Truck PCE								
2-Axle Trucks		0	2	2	2	0	2	30
3-Axle Trucks		2	3	5	3	0	3	50
4+ Axle Trucks		9	6	15	3	3	6	159
Total Truck PCE		**11**	**11**	**22**	**8**	**3**	**11**	**239**
Total PCE		**32**	**14**	**46**	**17**	**30**	**47**	**708**

[1] Rates based on Land Use 154 - "High-Cube Transload and Short-Term Storage Warehouse" from Institute of Transportation Engineers (ITE) Trip Generation (11th Edition).

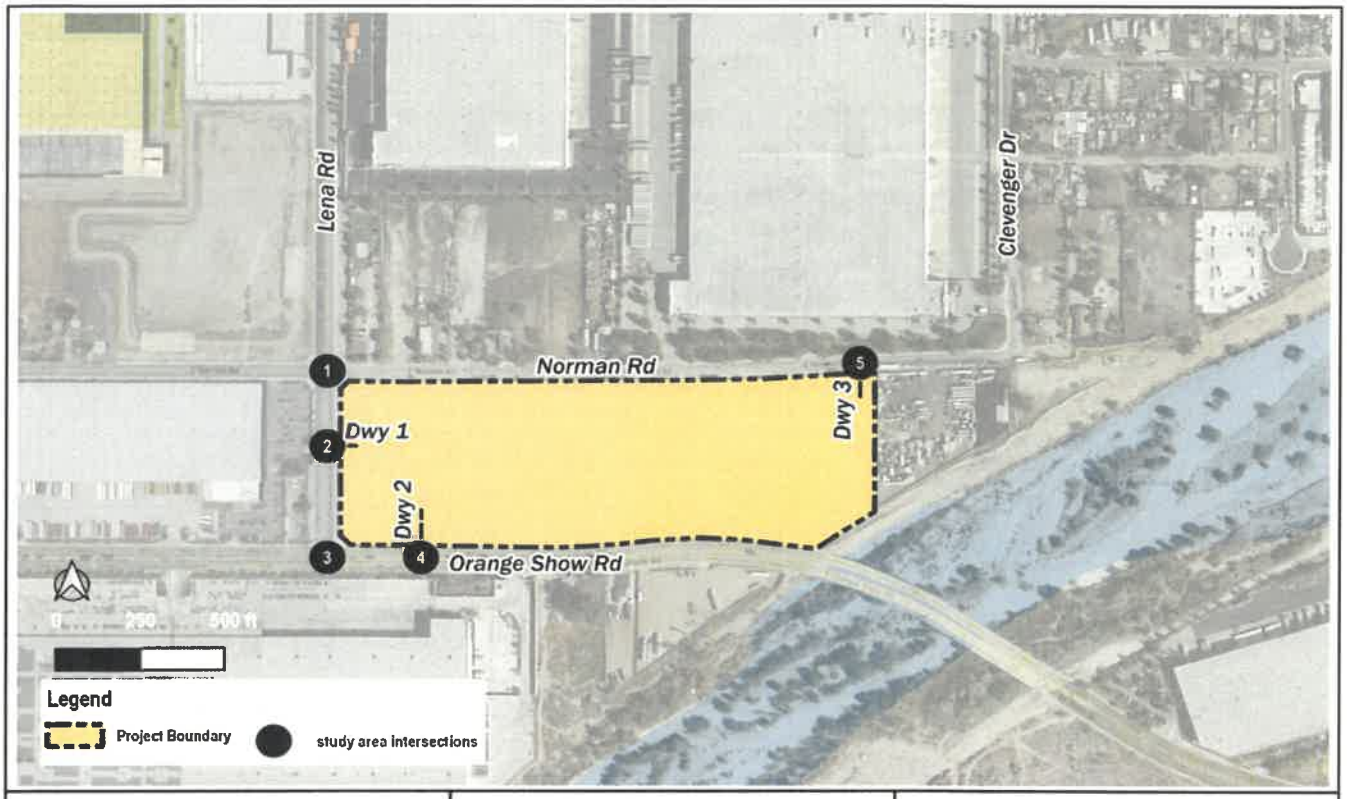
[2] Recommended Truck Mix Percentages per ITE 11th Ed. Sub types based on Fontana Study.

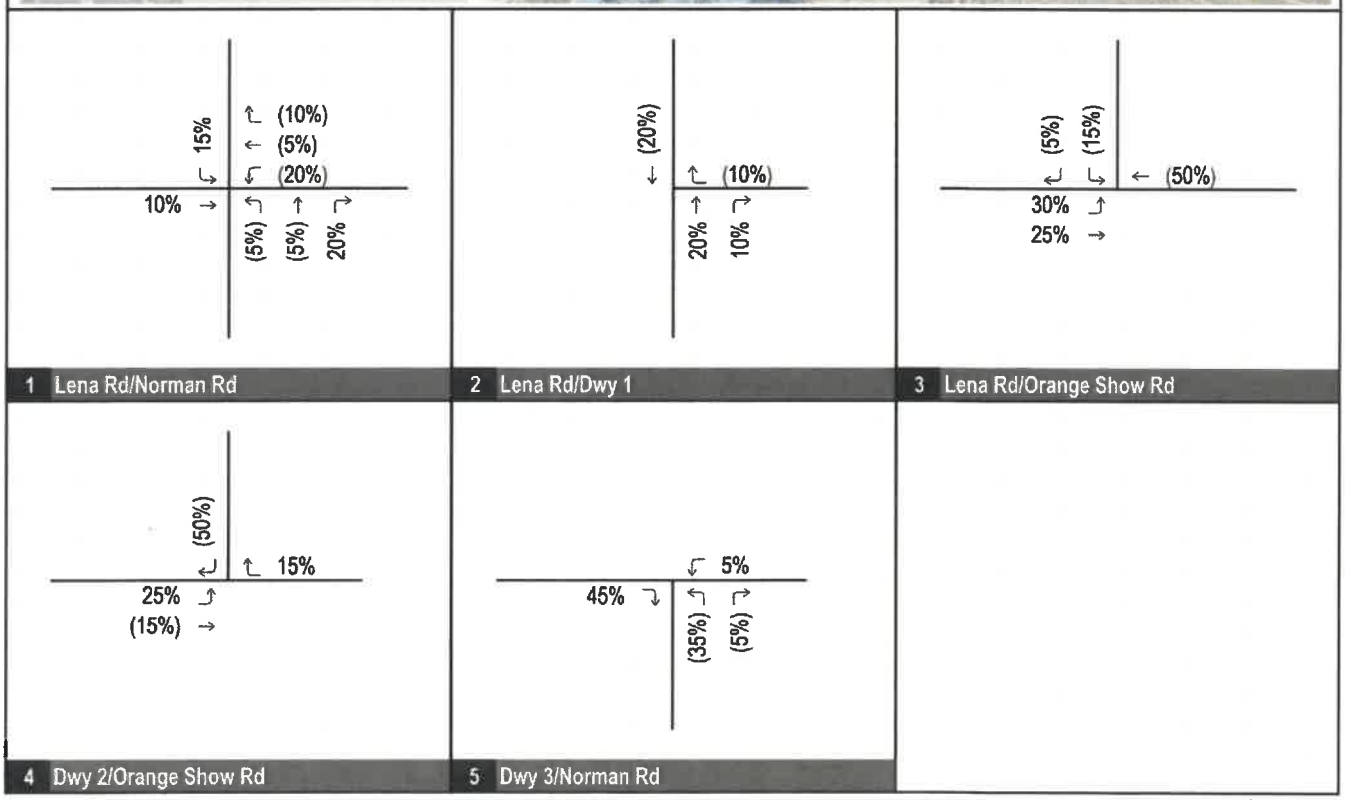
[3] Recommended PCE Factor per City of San Bernardino Traffic Impact Study Guidelines, 2004

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Table C - Net New Trip Generation

Land Use	Units[1]	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Proposed PCE Trips								
Passenger Cars		21	3	24	9	27	36	469
Truck PCE		11	11	22	8	3	11	239
Total Vehicle Trips		**32**	**14**	**46**	**17**	**30**	**47**	**708**
Existing PCE Trips								
Passenger Cars		1	0	1	0	1	1	20
Truck PCE		9	9	18	9	12	21	399
Total Vehicle Trips		**10**	**9**	**19**	**9**	**13**	**22**	**419**
Net New PCE Trips								
Passenger Cars		20	3	23	9	26	35	449
Truck PCE		2	2	4	-1	-9	-10	-160
Total PCE Trips		**22**	**5**	**27**	**8**	**17**	**25**	**289**





1 Lena Rd/Norman Rd

2 Lena Rd/Dwy 1

3 Lena Rd/Orange Show Rd

4 Dwy 2/Orange Show Rd

5 Dwy 3/Norman Rd

FIGURE 2

XXX%(YYY%) Inbound%(Outbound%) Percent

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Gateway South 9 Warehouse
Project Trip Distribution (Autos)

D:\Projects\Hillwood - GWS9\scope\Z Auto Dist 10/7/2022



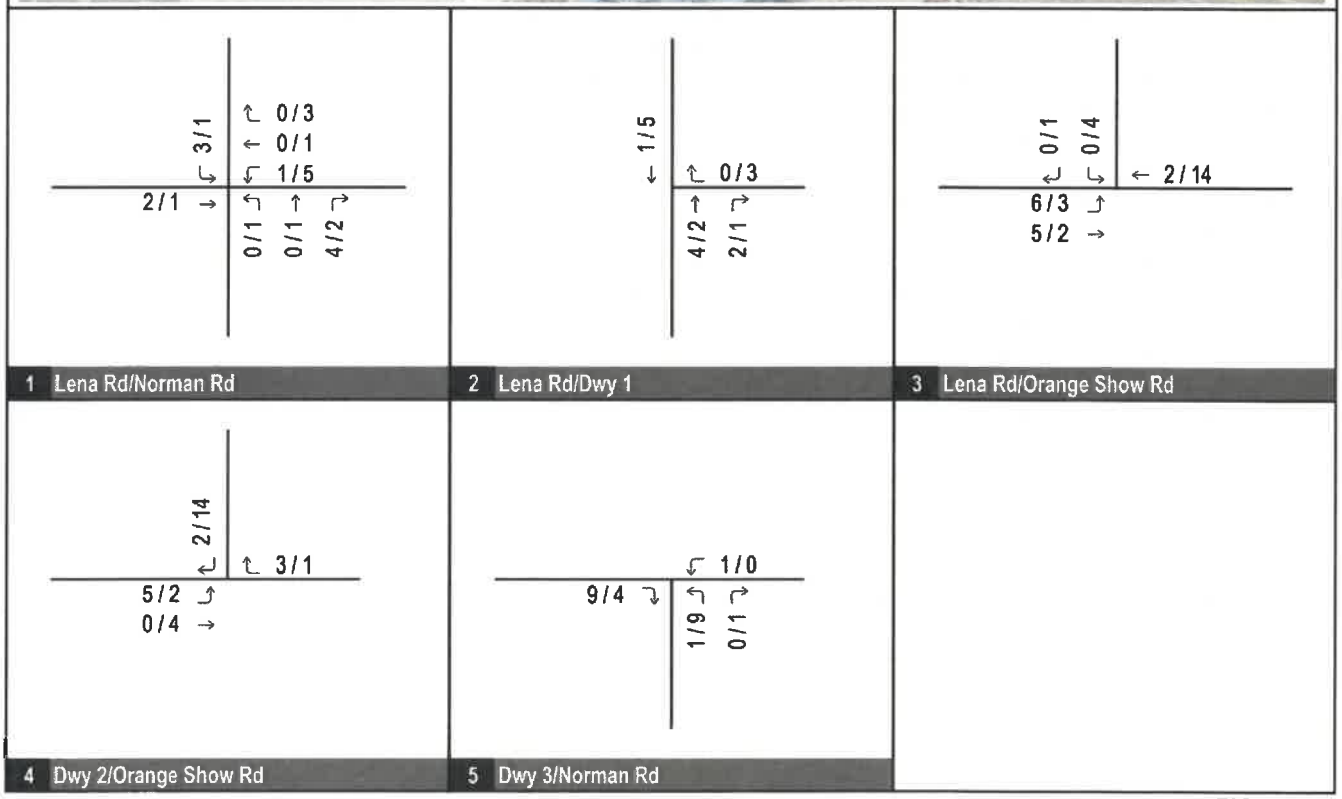


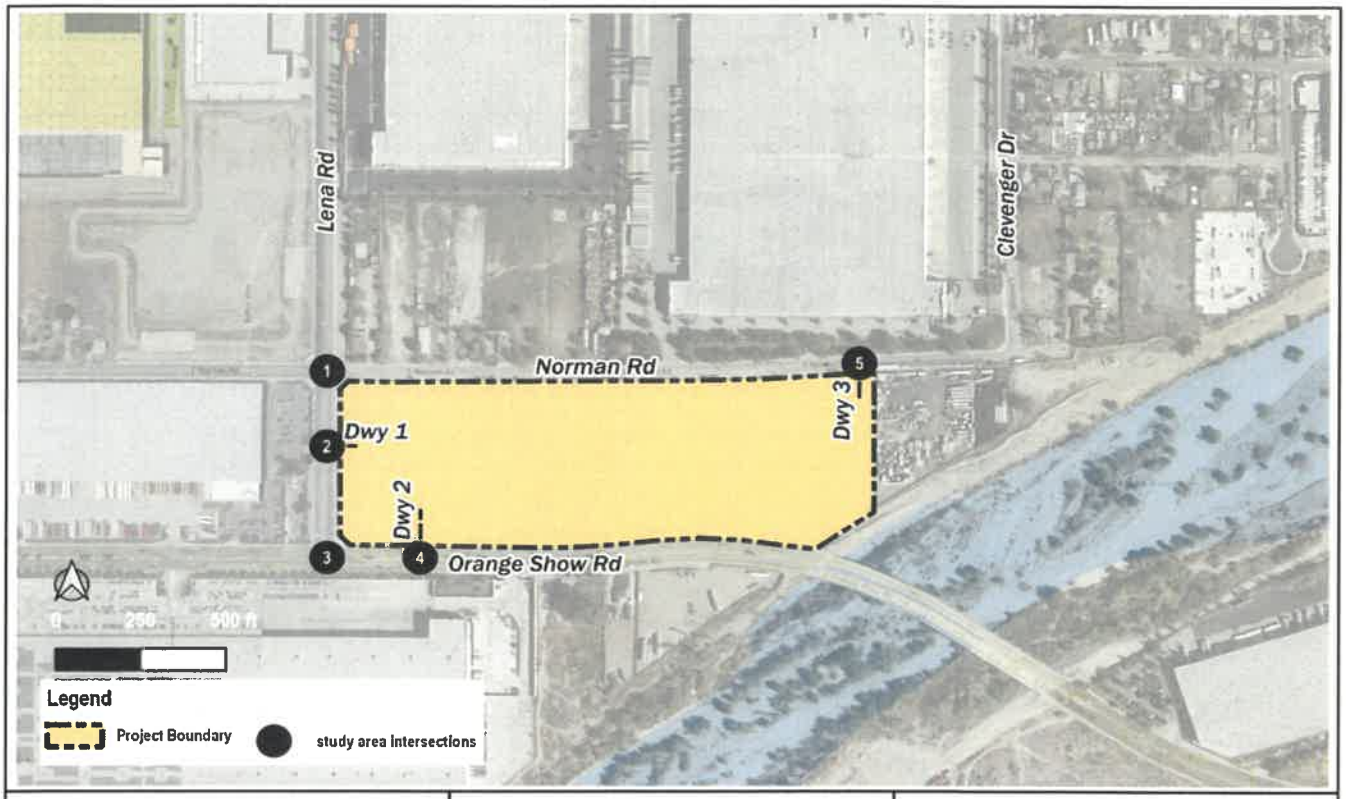
FIGURE 3

XXX / YYY AM / PM Peak Hour Trips

Gateway South 9 Warehouse
Project Trip Assignment (Autos)

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D:\Projects\Hillwood - GWS9\scope\Z Auto Trips 11/4/2022



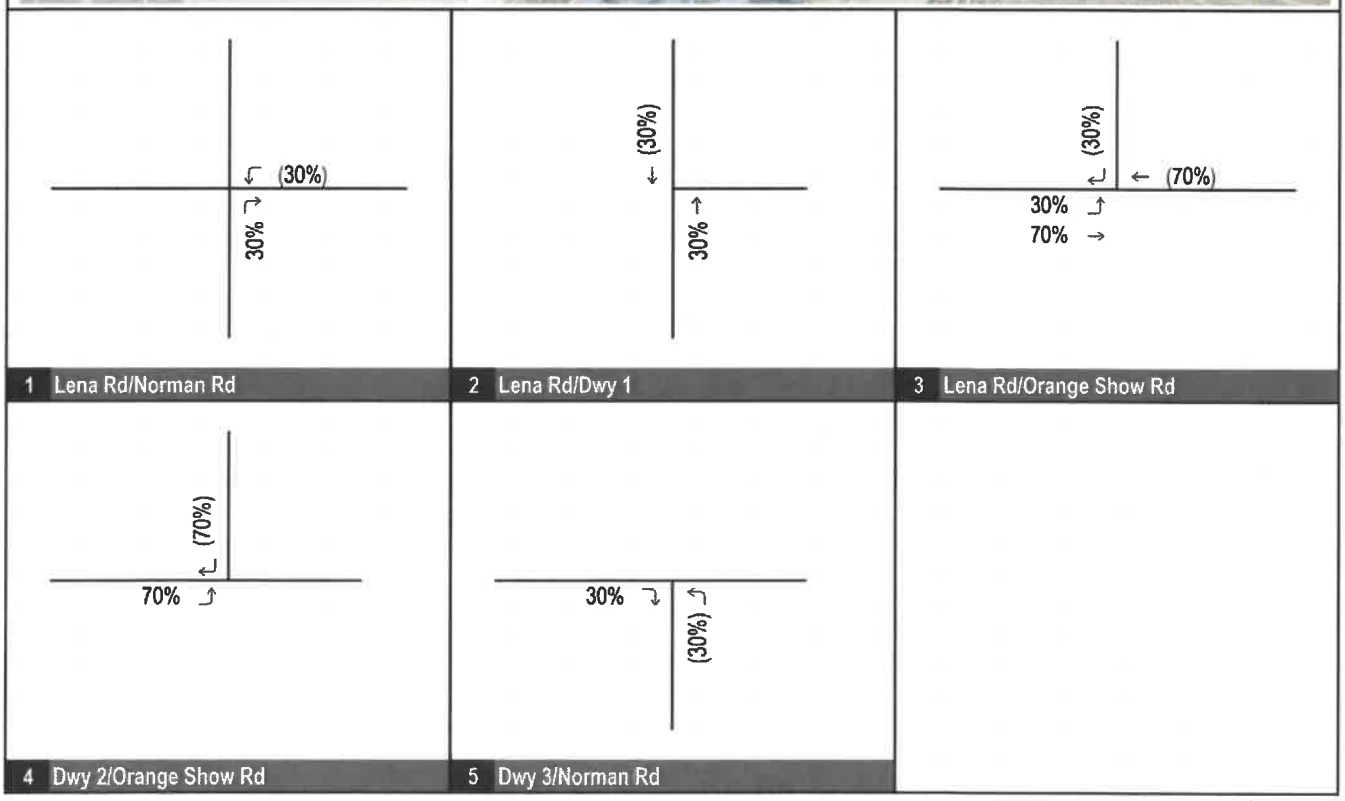


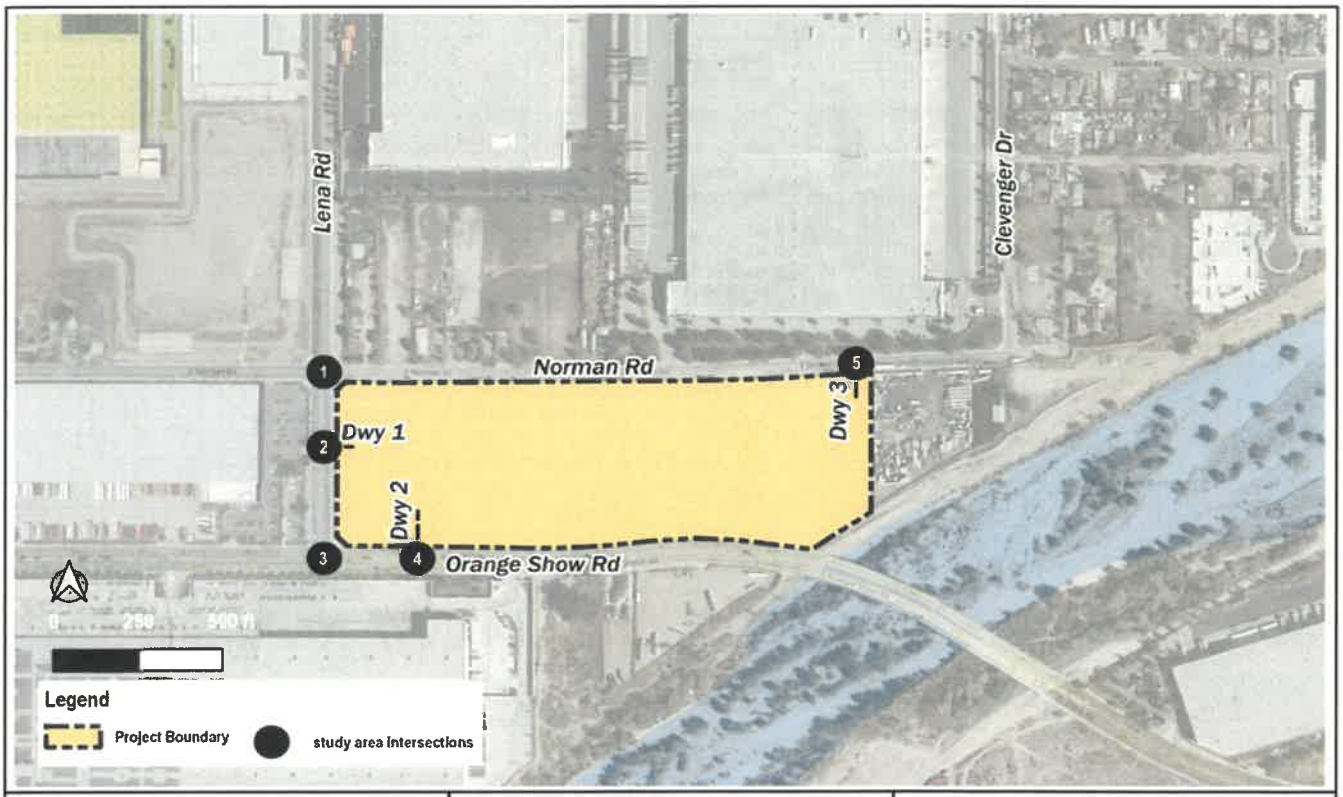
FIGURE 4

XXX%(YYY%) Inbound%(Outbound%) Percent

Gateway South 9 Warehouse
Project Trip Distribution (Trucks)

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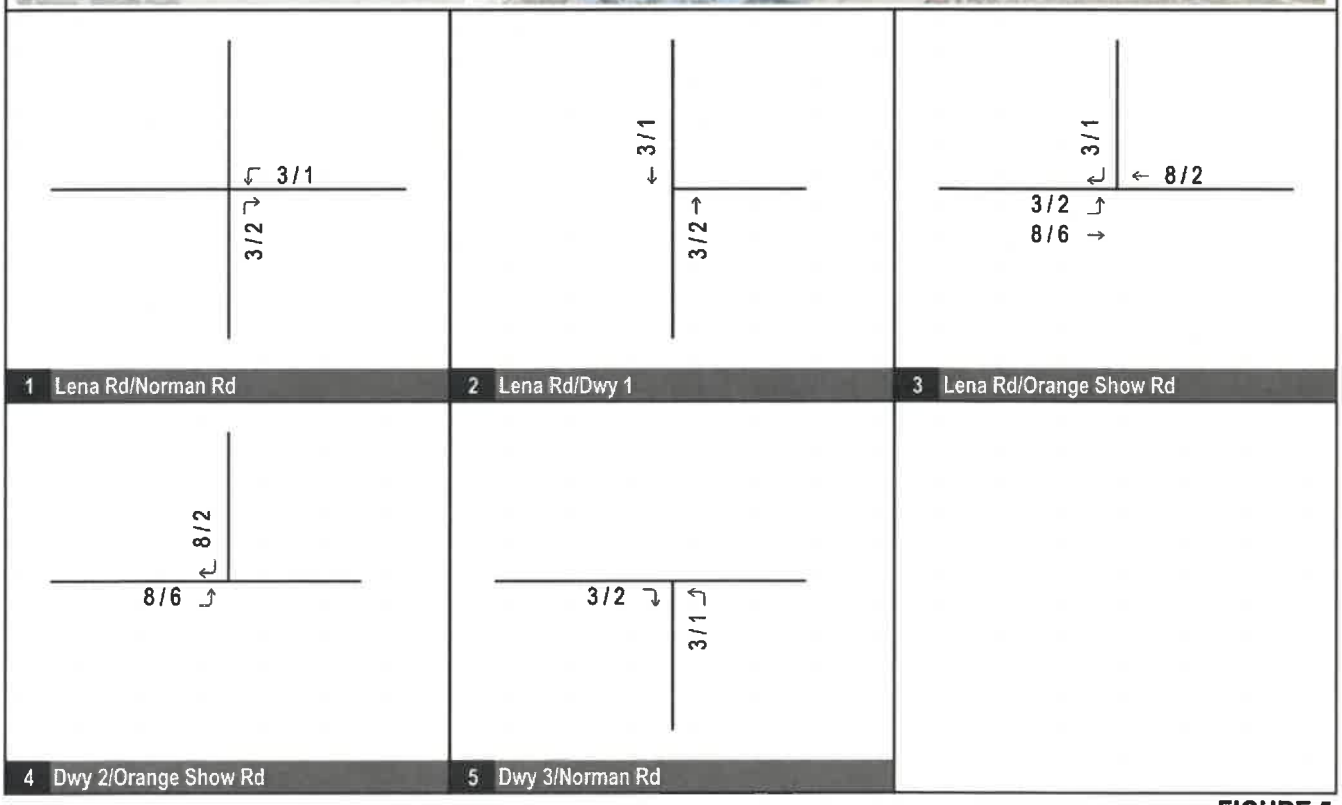


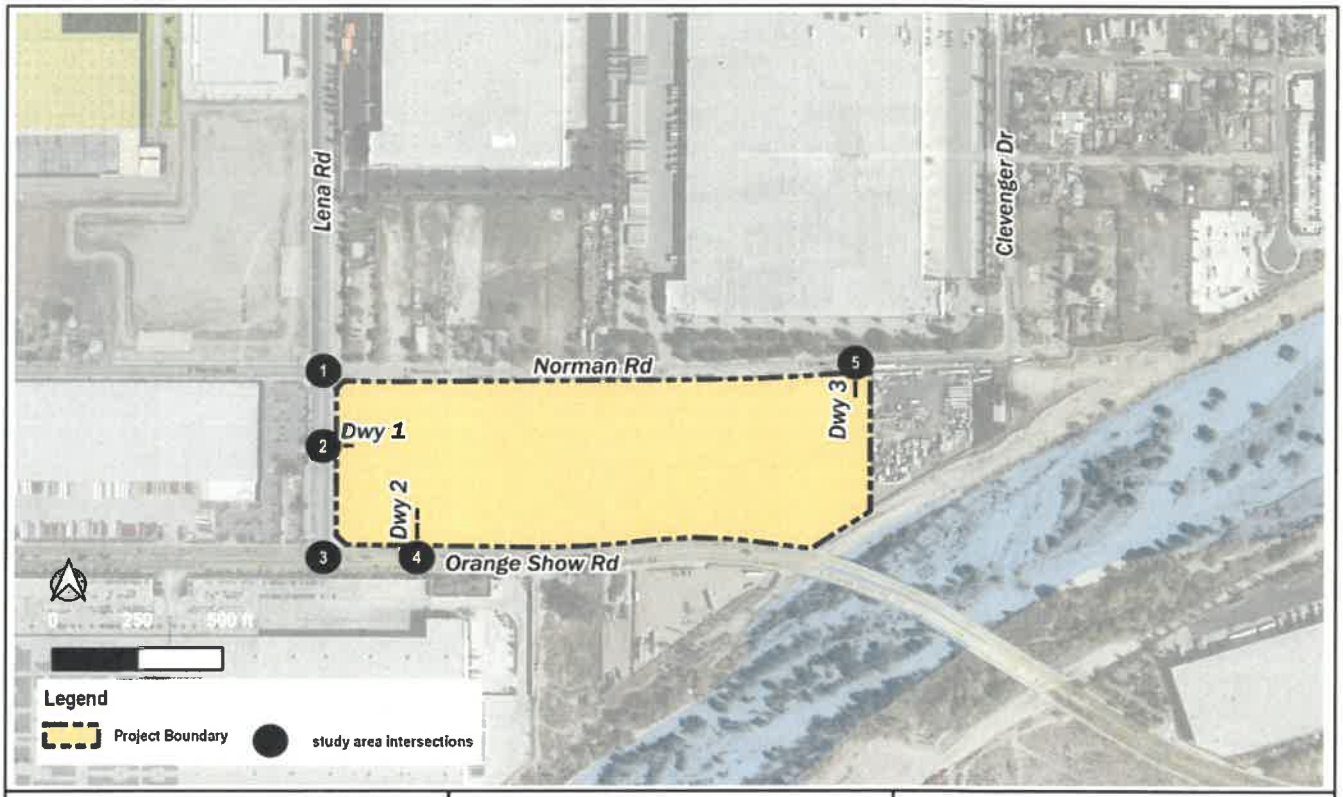
FIGURE 5

XXX / YYY AM / PM Peak Hour Trips

Gateway South 9 Warehouse
Project Trip Assignment (Trucks)

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D:\Projects\Hillwood - GWS9\scope\Z Truck Trips 11/4/2022



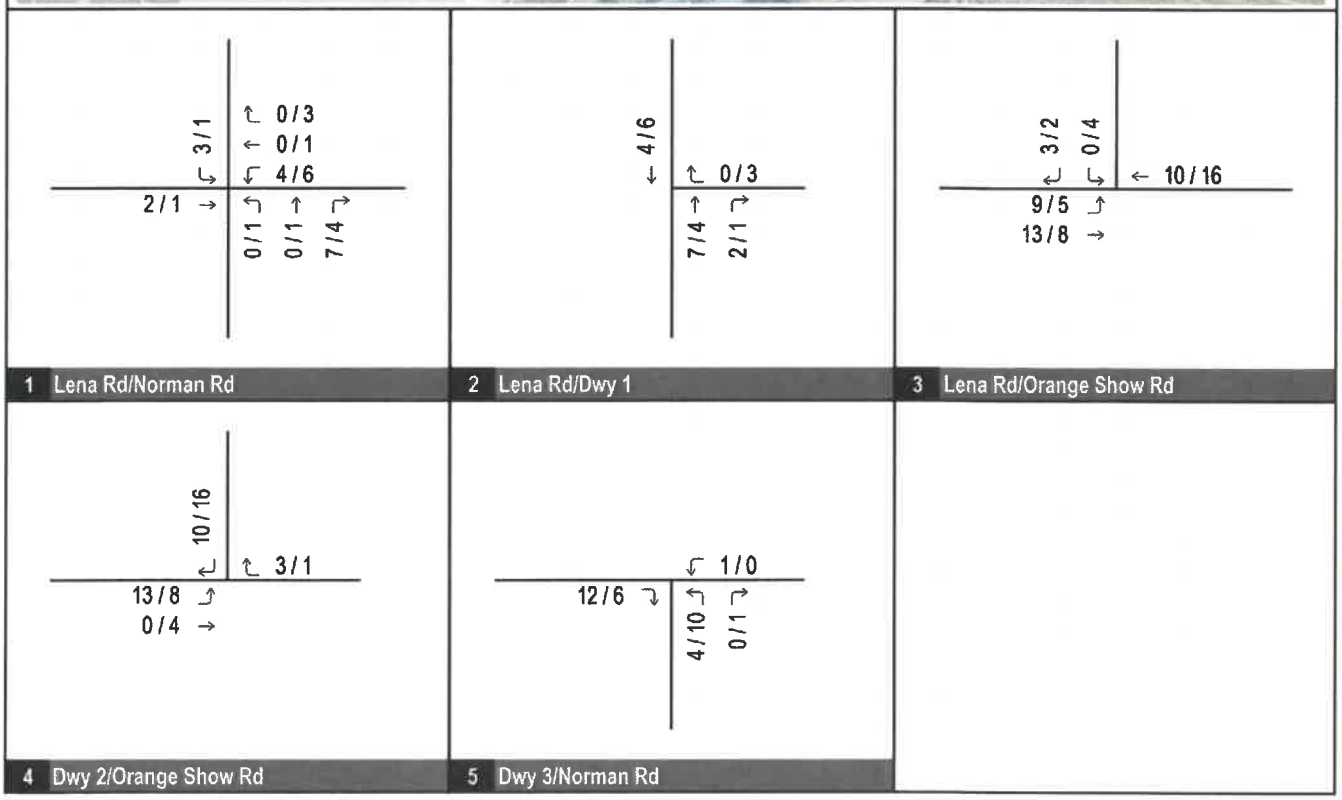


FIGURE 6

XXX / YYY AM / PM Peak Hour Trips

Gateway South 9 Warehouse
Total Project Trip Assignment

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D:\Projects\Hillwood - GWS9\scope\Z Total Trips 11/4/2022

Appendix A: County of San Bernardino Trailer Parking Rates

Sandipan Bhattacharjee

From: Shanabo, Eanas - DPW <Eanas.Shanabo@dpw.sbcounty.gov>
Sent: Wednesday, November 6, 2019 9:47 AM
To: Sandipan Bhattacharjee
Cc: Pham, Anthony - DPW; Johnson, Jeremy - DPW; Mitri, Marc - DPW
Subject: P201800024; Palm ave. Truck Terminal; APN: 0266-021-53

Sandi,

- The vehicle mix should be consistent with the types of parking stalls
- Please use the following rates per acre for the project trips

	Daily			am peak			pm peak	
Rate per Acre	In	Out	Rate per Acre	In	Out	Rate per Acre	In	Out
76.84	51	49	3.52	55	45	3.98	49	51

If you have any question please let me know

Thank you

Eanas Shanabo
Department of Public Works
Phone: 909-387-8186
Fax: 909-387-7809
825 E. Third Street
San Bernardino, CA 92415

SAN BERNARDINO COUNTY

Our job is to create a county in which those who reside and invest can prosper and achieve well-being.

www.SBCounty.gov

County of San Bernardino Confidentiality Notice: This communication contains confidential information sent solely for the use of the intended recipient. If you are not the intended recipient of this communication, you are not authorized to use it in any manner, except to immediately destroy it and notify the sender.

APPENDIX B:
TRAFFIC COUNTS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

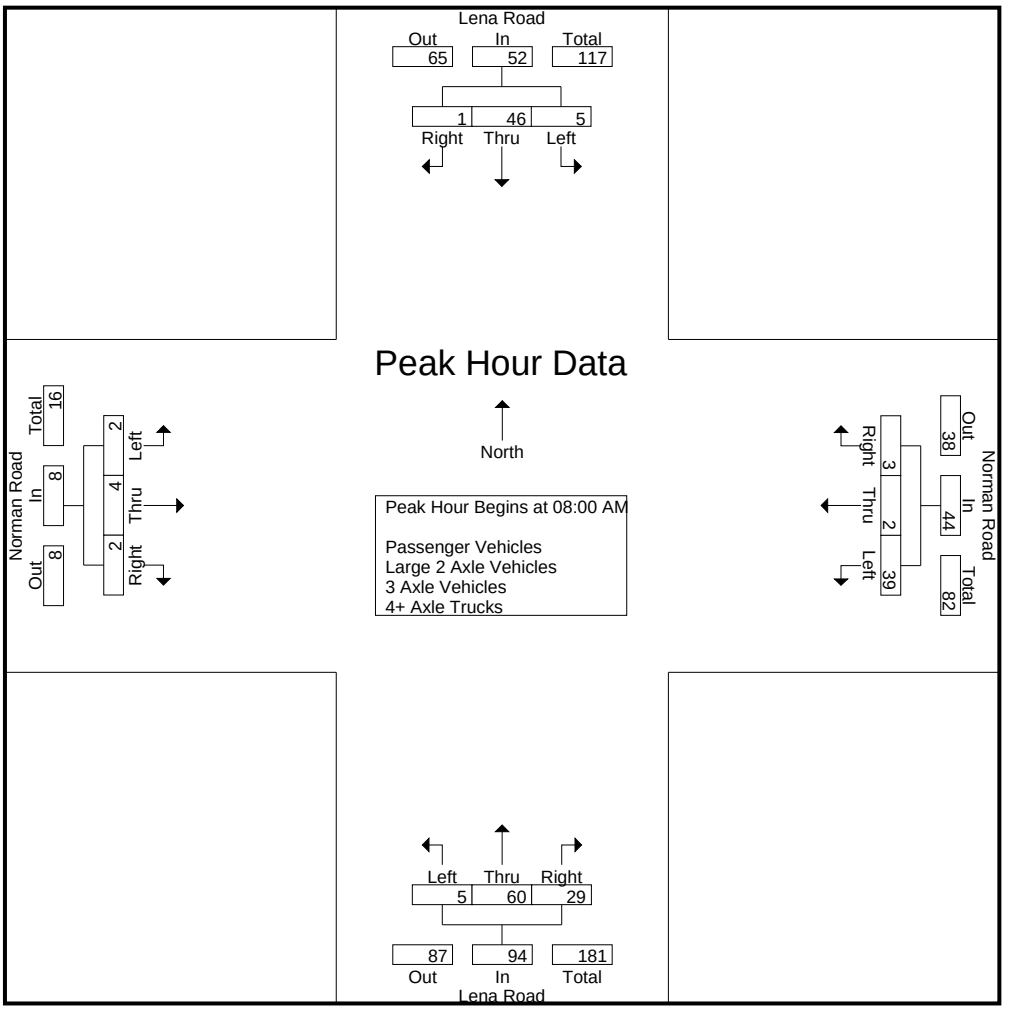
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	9	1	11	3	0	0	3	3	21	3	27	0	0	2	2	43
07:15 AM	0	5	0	5	1	1	1	3	0	19	3	22	0	0	0	0	30
07:30 AM	1	6	1	8	2	2	0	4	1	22	6	29	0	0	1	1	42
07:45 AM	0	8	0	8	3	1	1	5	1	35	6	42	1	0	0	1	56
Total	2	28	2	32	9	4	2	15	5	97	18	120	1	0	3	4	171
08:00 AM	1	8	1	10	3	0	2	5	1	20	7	28	1	2	1	4	47
08:15 AM	0	10	0	10	2	1	0	3	1	14	9	24	1	1	0	2	39
08:30 AM	1	12	0	13	6	0	0	6	2	17	4	23	0	1	0	1	43
08:45 AM	3	16	0	19	28	1	1	30	1	9	9	19	0	0	1	1	69
Total	5	46	1	52	39	2	3	44	5	60	29	94	2	4	2	8	198
Grand Total	7	74	3	84	48	6	5	59	10	157	47	214	3	4	5	12	369
Apprch %	8.3	88.1	3.6		81.4	10.2	8.5		4.7	73.4	22		25	33.3	41.7		
Total %	1.9	20.1	0.8	22.8	13	1.6	1.4	16	2.7	42.5	12.7	58	0.8	1.1	1.4	3.3	
Passenger Vehicles	7	68	3	78	45	6	3	54	8	135	45	188	3	3	5	11	331
% Passenger Vehicles	100	91.9	100	92.9	93.8	100	60	91.5	80	86	95.7	87.9	100	75	100	91.7	89.7
Large 2 Axle Vehicles	0	0	0	0	1	0	1	2	0	3	1	4	0	1	0	1	7
% Large 2 Axle Vehicles	0	0	0	0	2.1	0	20	3.4	0	1.9	2.1	1.9	0	25	0	8.3	1.9
3 Axle Vehicles	0	1	0	1	1	0	0	1	2	8	1	11	0	0	0	0	13
% 3 Axle Vehicles	0	1.4	0	1.2	2.1	0	0	1.7	20	5.1	2.1	5.1	0	0	0	0	3.5
4+ Axle Trucks	0	5	0	5	1	0	1	2	0	11	0	11	0	0	0	0	18
% 4+ Axle Trucks	0	6.8	0	6	2.1	0	20	3.4	0	7	0	5.1	0	0	0	0	4.9

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	1	8	**1**	10	3	0	**2**	5	1	**20**	7	**28**	**1**	**2**	**1**	**4**	47
08:15 AM	0	10	0	10	2	**1**	0	3	1	14	**9**	24	1	1	0	2	39
08:30 AM	1	12	0	13	6	0	0	6	**2**	17	4	23	0	1	0	1	43
08:45 AM	**3**	**16**	0	**19**	**28**	1	1	**30**	1	9	9	19	0	0	1	1	**69**
Total Volume	5	46	1	52	39	2	3	44	5	60	29	94	2	4	2	8	198
% App. Total	9.6	88.5	1.9		88.6	4.5	6.8		5.3	63.8	30.9		25	50	25		
PHF	.417	.719	.250	.684	.348	.500	.375	.367	.625	.750	.806	.839	.500	.500	.500	.500	.717

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				07:30 AM				07:30 AM			
+0 mins.	1	8	**1**	10	3	0	**2**	5	**1**	22	6	29	0	0	**1**	1
+15 mins.	0	10	0	10	2	**1**	0	3	1	**35**	6	**42**	**1**	0	0	1
+30 mins.	1	12	0	13	6	0	0	6	1	20	7	28	1	**2**	1	**4**
+45 mins.	**3**	**16**	0	**19**	**28**	1	1	**30**	1	14	**9**	24	1	1	0	2
Total Volume	5	46	1	52	39	2	3	44	4	91	28	123	3	3	2	8
% App. Total	9.6	88.5	1.9		88.6	4.5	6.8		3.3	74	22.8		37.5	37.5	25	
PHF	.417	.719	.250	.684	.348	.500	.375	.367	1.000	.650	.778	.732	.750	.375	.500	.500

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Passenger Vehicles

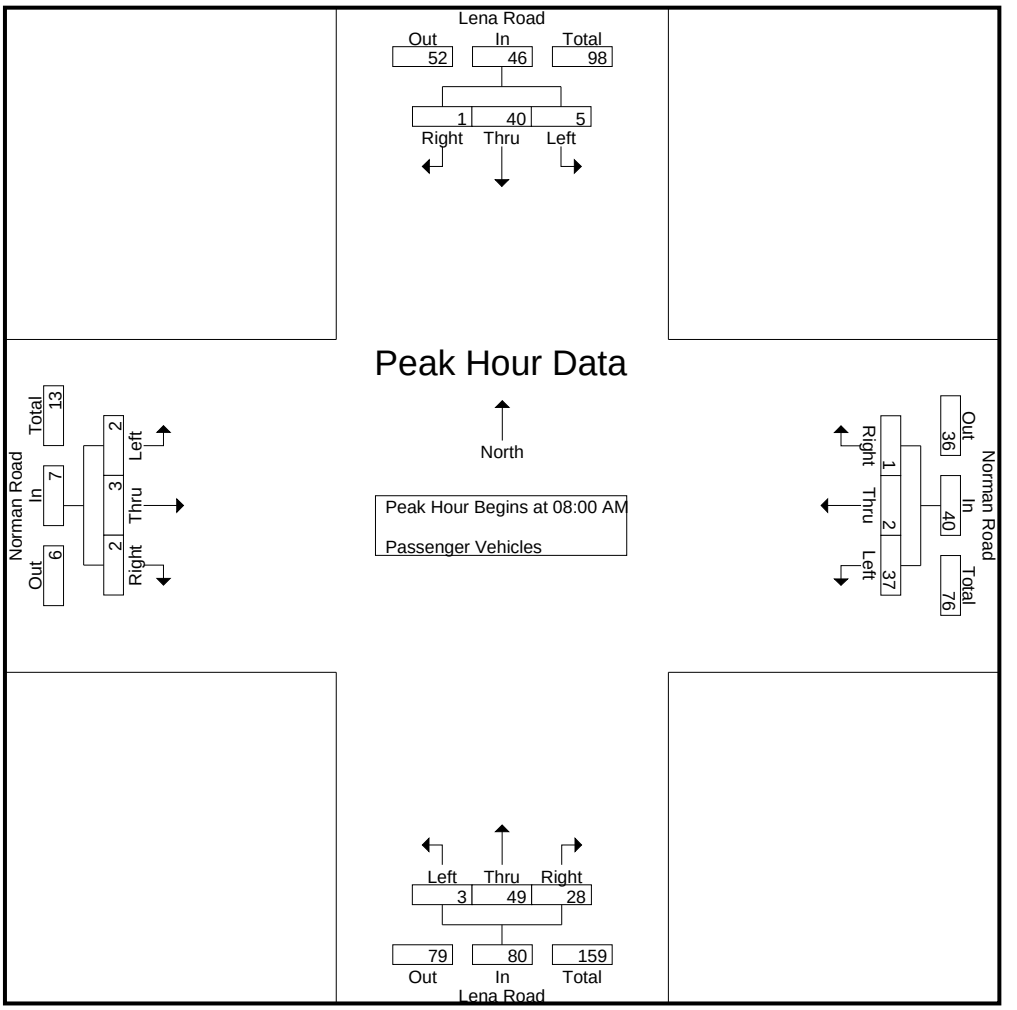
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	9	1	11	2	0	0	2	3	18	3	24	0	0	2	2	39
07:15 AM	0	5	0	5	1	1	1	3	0	18	2	20	0	0	0	0	28
07:30 AM	1	6	1	8	2	2	0	4	1	19	6	26	0	0	1	1	39
07:45 AM	0	8	0	8	3	1	1	5	1	31	6	38	1	0	0	1	52
Total	2	28	2	32	8	4	2	14	5	86	17	108	1	0	3	4	158
08:00 AM	1	7	1	9	3	0	1	4	1	17	7	25	1	1	1	3	41
08:15 AM	0	9	0	9	2	1	0	3	0	12	8	20	1	1	0	2	34
08:30 AM	1	12	0	13	5	0	0	5	1	12	4	17	0	1	0	1	36
08:45 AM	3	12	0	15	27	1	0	28	1	8	9	18	0	0	1	1	62
Total	5	40	1	46	37	2	1	40	3	49	28	80	2	3	2	7	173
Grand Total	7	68	3	78	45	6	3	54	8	135	45	188	3	3	5	11	331
Apprch %	9	87.2	3.8		83.3	11.1	5.6		4.3	71.8	23.9		27.3	27.3	45.5		
Total %	2.1	20.5	0.9	23.6	13.6	1.8	0.9	16.3	2.4	40.8	13.6	56.8	0.9	0.9	1.5	3.3	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	1	7	**1**	9	3	0	**1**	4	**1**	**17**	7	**25**	**1**	**1**	**1**	**3**	41
08:15 AM	0	9	0	9	2	**1**	0	3	0	12	8	20	1	1	0	2	34
08:30 AM	1	**12**	0	13	5	0	0	5	1	12	4	17	0	1	0	1	36
08:45 AM	**3**	12	0	**15**	**27**	1	0	**28**	1	8	**9**	18	0	0	1	1	**62**
Total Volume	5	40	1	46	37	2	1	40	3	49	28	80	2	3	2	7	173
% App. Total	10.9	87	2.2		92.5	5	2.5		3.8	61.2	35		28.6	42.9	28.6		
PHF	.417	.833	.250	.767	.343	.500	.250	.357	.750	.721	.778	.800	.500	.750	.500	.583	.698

Counts Unlimited, Inc.
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Corona, CA 92878
(951)268-6268

City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	1	7	**1**	9	3	0	**1**	4	**1**	**17**	7	**25**	**1**	**1**	**1**	**3**
+15 mins.	0	9	0	9	2	**1**	0	3	0	12	8	20	1	1	0	2
+30 mins.	1	**12**	0	13	5	0	0	5	1	12	4	17	0	1	0	1
+45 mins.	**3**	12	0	**15**	**27**	1	0	**28**	1	8	**9**	18	0	0	1	1
Total Volume	5	40	1	46	37	2	1	40	3	49	28	80	2	3	2	7
% App. Total	10.9	87	2.2		92.5	5	2.5		3.8	61.2	35		28.6	42.9	28.6	
PHF	.417	.833	.250	.767	.343	.500	.250	.357	.750	.721	.778	.800	.500	.750	.500	.583

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021

Groups Printed- Large 2 Axle Vehicles

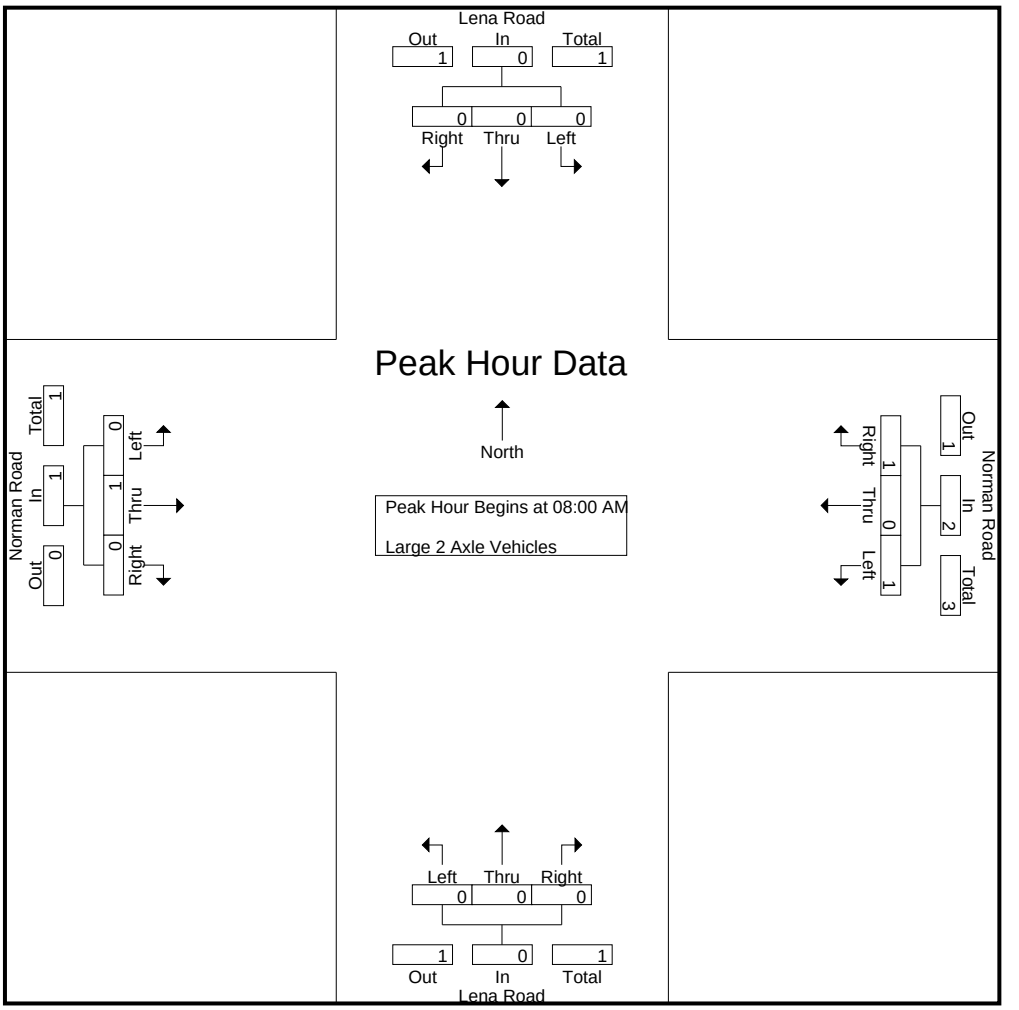
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	2
07:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	3	1	4	0	0	0	0	4
08:00 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	1	2	0	0	0	0	0	1	0	1	3
Grand Total	0	0	0	0	1	0	1	2	0	3	1	4	0	1	0	1	7
Apprch %	0	0	0		50	0	50		0	75	25		0	100	0		
Total %	0	0	0	0	14.3	0	14.3	28.6	0	42.9	14.3	57.1	0	14.3	0	14.3	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	0	0	0	0	0	**1**	**1**	0	0	0	0	0	**1**	0	**1**	**2**
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	0	1	2	0	0	0	0	0	1	0	1	3
% App. Total	0	0	0		50	0	50		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.250	.000	.250	.500	.000	.000	.000	.000	.000	.250	.000	.250	.375

Counts Unlimited, Inc.
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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	0	0	0	0	0	**1**	**1**	0	0	0	0	0	**1**	0	**1**
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	0	1	2	0	0	0	0	0	1	0	1
% App. Total	0	0	0		50	0	50		0	0	0		0	100	0	
PHF	.000	.000	.000	.000	.250	.000	.250	.500	.000	.000	.000	.000	.000	.250	.000	.250

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021

Groups Printed- 3 Axle Vehicles

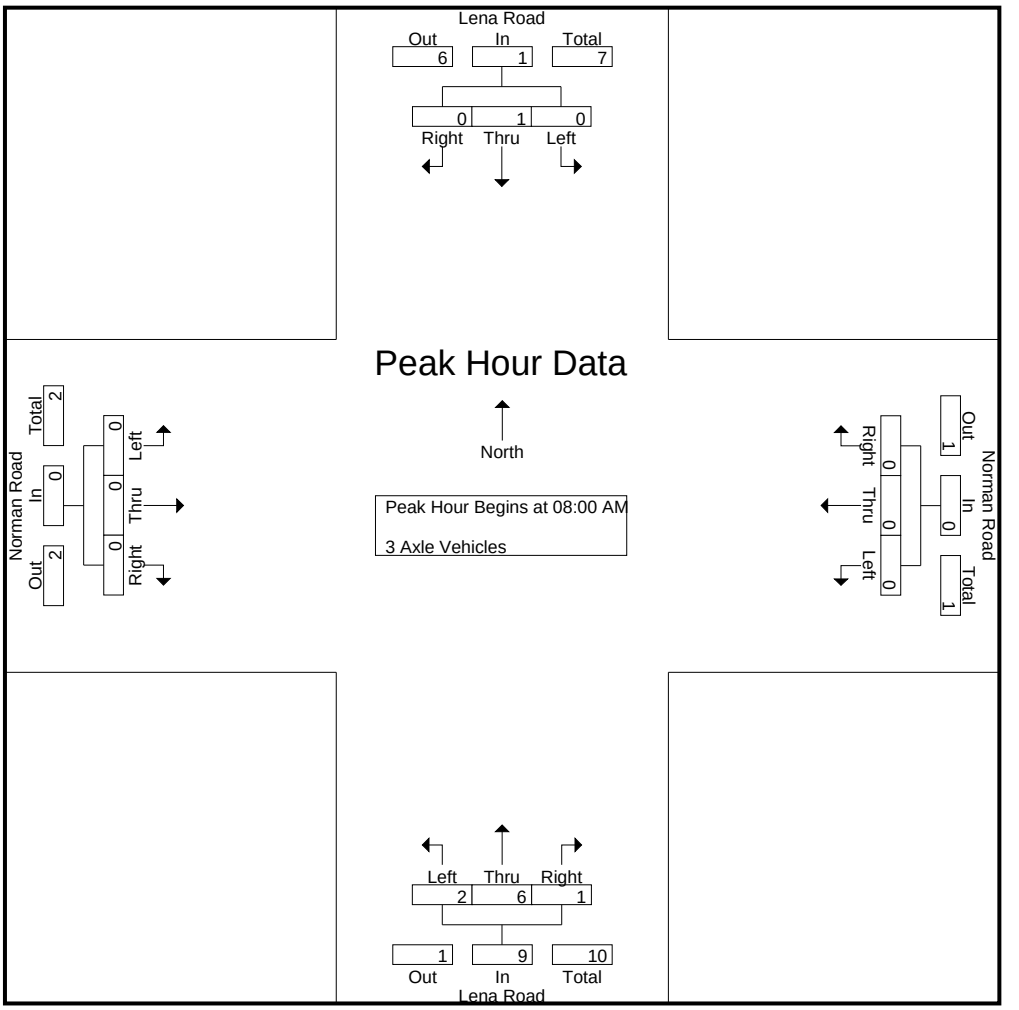
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	2
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	0	0	0	0	1	0	0	1	0	2	0	2	0	0	0	0	3
08:00 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
08:15 AM	0	0	0	0	0	0	0	0	1	2	1	4	0	0	0	0	4
08:30 AM	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	3
08:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	1	0	0	0	0	2	6	1	9	0	0	0	0	10
Grand Total	0	1	0	1	1	0	0	1	2	8	1	11	0	0	0	0	13
Apprch %	0	100	0		100	0	0		18.2	72.7	9.1		0	0	0		
Total %	0	7.7	0	7.7	7.7	0	0	7.7	15.4	61.5	7.7	84.6	0	0	0	0	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	0	0	0	0	0	0	0	0	**2**	0	2	0	0	0	0	2
08:15 AM	0	0	0	0	0	0	0	0	**1**	2	**1**	**4**	0	0	0	0	**4**
08:30 AM	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	3
08:45 AM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	1	0	1	0	0	0	0	2	6	1	9	0	0	0	0	10
% App. Total	0	100	0		0	0	0		22.2	66.7	11.1		0	0	0		
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.500	.750	.250	.563	.000	.000	.000	.000	.625

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	**2**	0	2	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	**1**	2	**1**	**4**	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0
+45 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	1	0	0	0	0	2	6	1	9	0	0	0	0
% App. Total	0	100	0		0	0	0		22.2	66.7	11.1		0	0	0	
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.500	.750	.250	.563	.000	.000	.000	.000

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- 4+ Axle Trucks

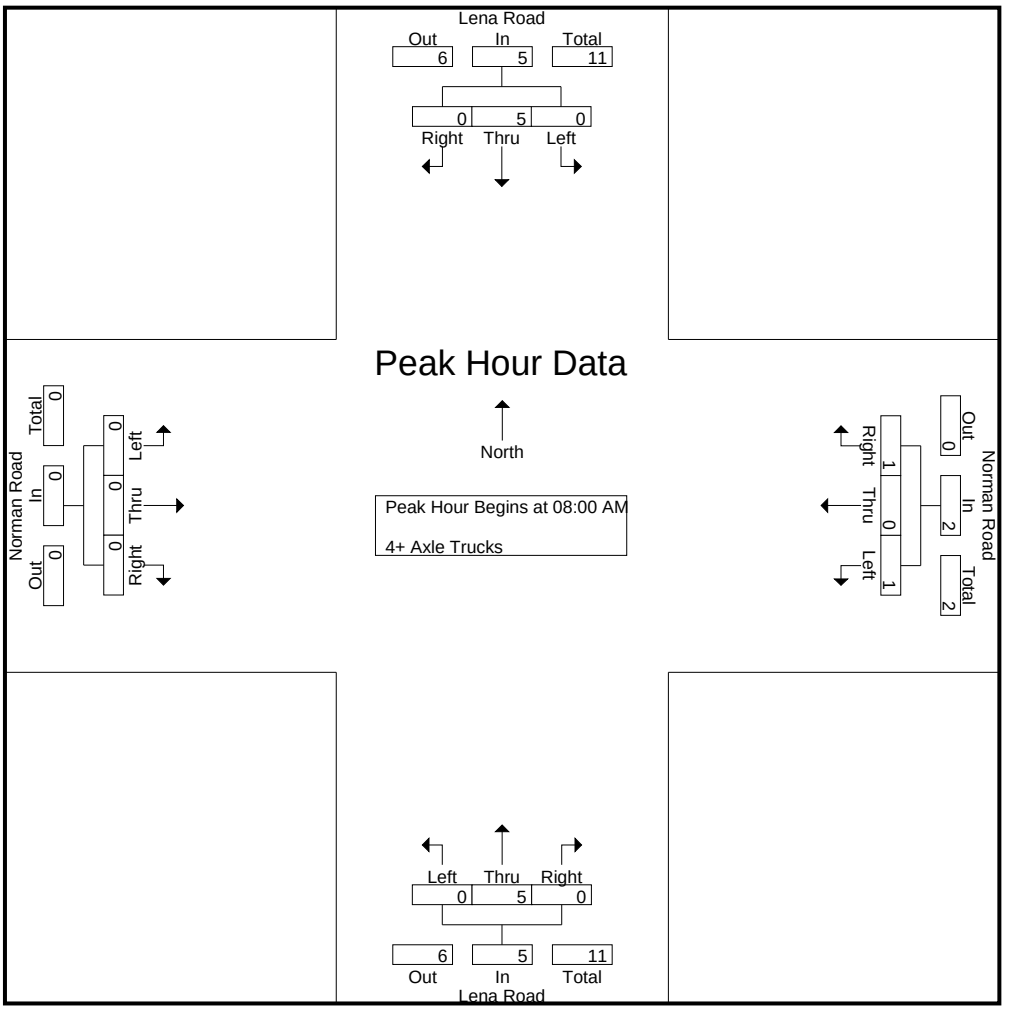
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
Total	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0	0	6
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
08:45 AM	0	3	0	3	1	0	1	2	0	1	0	1	0	0	0	0	6
Total	0	5	0	5	1	0	1	2	0	5	0	5	0	0	0	0	12
Grand Total	0	5	0	5	1	0	1	2	0	11	0	11	0	0	0	0	18
Apprch %	0	100	0		50	0	50		0	100	0		0	0	0		
Total %	0	27.8	0	27.8	5.6	0	5.6	11.1	0	61.1	0	61.1	0	0	0	0	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	**3**	0	**3**	0	0	0	0	3
08:45 AM	0	**3**	0	**3**	**1**	0	**1**	**2**	0	1	0	1	0	0	0	0	**6**
Total Volume	0	5	0	5	1	0	1	2	0	5	0	5	0	0	0	0	12
% App. Total	0	100	0		50	0	50		0	100	0		0	0	0		
PHF	.000	.417	.000	.417	.250	.000	.250	.250	.000	.417	.000	.417	.000	.000	.000	.000	.500

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman AM
Site Code : 99921278
Start Date : 6/15/2021



Peak Hour Analysis From 08:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0
+15 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	**3**	0	**3**	0	0	0	0
+45 mins.	0	**3**	0	**3**	**1**	0	**1**	**2**	0	1	0	1	0	0	0	0
Total Volume	0	5	0	5	1	0	1	2	0	5	0	5	0	0	0	0
% App. Total	0	100	0		50	0	50		0	100	0		0	0	0	
PHF	.000	.417	.000	.417	.250	.000	.250	.250	.000	.417	.000	.417	.000	.000	.000	.000

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

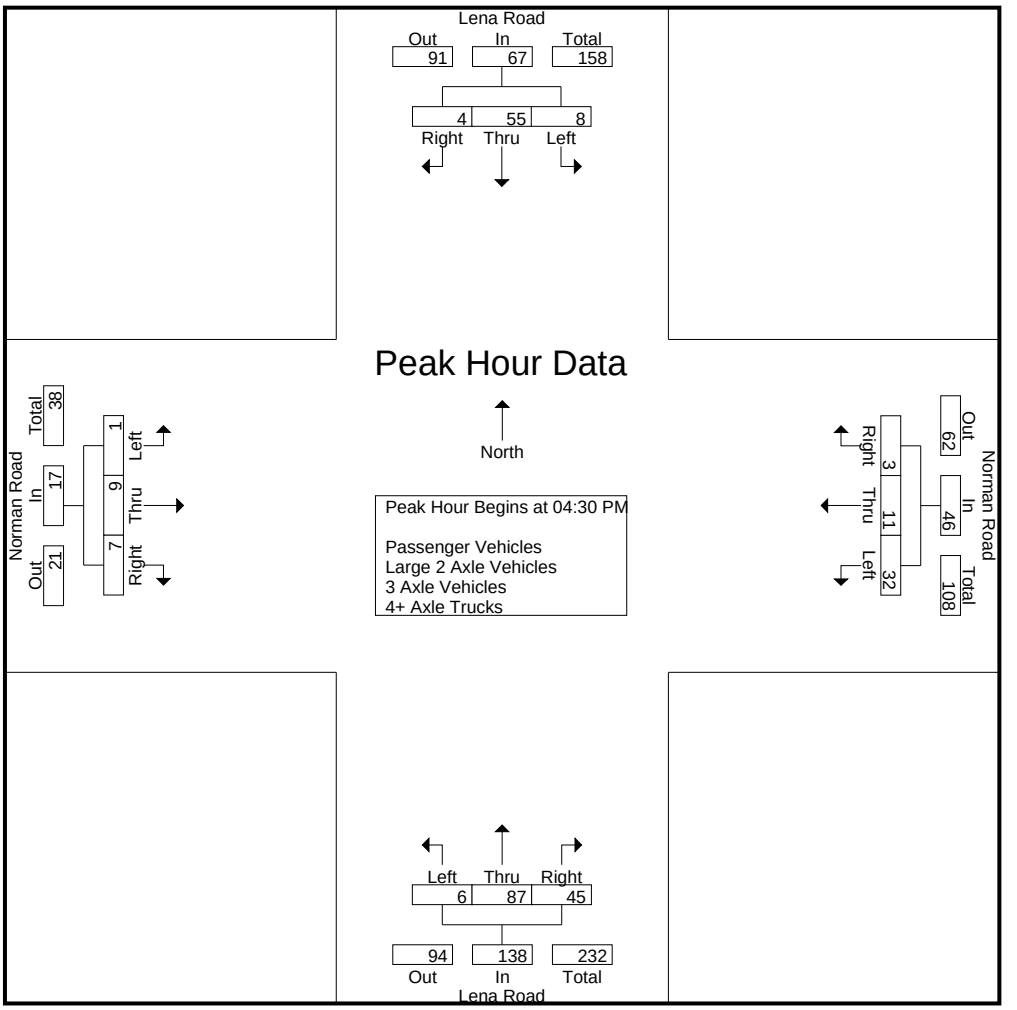
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	8	1	10	8	2	0	10	2	20	10	32	0	2	2	4	56
04:15 PM	1	10	1	12	4	1	0	5	1	12	13	26	0	1	1	2	45
04:30 PM	4	23	1	28	15	1	0	16	2	22	15	39	0	0	3	3	86
04:45 PM	1	4	2	7	12	4	2	18	3	23	16	42	0	0	0	0	67
Total	7	45	5	57	39	8	2	49	8	77	54	139	0	3	6	9	254
05:00 PM	1	20	1	22	2	1	1	4	1	19	6	26	1	4	1	6	58
05:15 PM	2	8	0	10	3	5	0	8	0	23	8	31	0	5	3	8	57
05:30 PM	1	14	0	15	4	3	2	9	1	18	5	24	0	2	1	3	51
05:45 PM	0	8	1	9	5	2	1	8	2	17	9	28	2	5	0	7	52
Total	4	50	2	56	14	11	4	29	4	77	28	109	3	16	5	24	218
Grand Total	11	95	7	113	53	19	6	78	12	154	82	248	3	19	11	33	472
Apprch %	9.7	84.1	6.2		67.9	24.4	7.7		4.8	62.1	33.1		9.1	57.6	33.3		
Total %	2.3	20.1	1.5	23.9	11.2	4	1.3	16.5	2.5	32.6	17.4	52.5	0.6	4	2.3	7	
Passenger Vehicles	11	89	7	107	52	16	6	74	12	130	76	218	2	14	10	26	425
% Passenger Vehicles	100	93.7	100	94.7	98.1	84.2	100	94.9	100	84.4	92.7	87.9	66.7	73.7	90.9	78.8	90
Large 2 Axle Vehicles	0	2	0	2	0	0	0	0	0	6	1	7	1	1	0	2	11
% Large 2 Axle Vehicles	0	2.1	0	1.8	0	0	0	0	0	3.9	1.2	2.8	33.3	5.3	0	6.1	2.3
3 Axle Vehicles	0	2	0	2	0	3	0	3	0	10	2	12	0	0	1	1	18
% 3 Axle Vehicles	0	2.1	0	1.8	0	15.8	0	3.8	0	6.5	2.4	4.8	0	0	9.1	3	3.8
4+ Axle Trucks	0	2	0	2	1	0	0	1	0	8	3	11	0	4	0	4	18
% 4+ Axle Trucks	0	2.1	0	1.8	1.9	0	0	1.3	0	5.2	3.7	4.4	0	21.1	0	12.1	3.8

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**4**	**23**	1	**28**	**15**	1	0	16	2	22	15	39	0	0	**3**	3	**86**
04:45 PM	1	4	**2**	7	12	4	**2**	**18**	**3**	**23**	**16**	**42**	0	0	0	0	67
05:00 PM	1	20	1	22	2	1	1	4	1	19	6	26	**1**	4	1	6	58
05:15 PM	2	8	0	10	3	**5**	0	8	0	23	8	31	0	**5**	3	**8**	57
Total Volume	8	55	4	67	32	11	3	46	6	87	45	138	1	9	7	17	268
% App. Total	11.9	82.1	6		69.6	23.9	6.5		4.3	63	32.6		5.9	52.9	41.2		
PHF	.500	.598	.500	.598	.533	.550	.375	.639	.500	.946	.703	.821	.250	.450	.583	.531	.779

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File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:00 PM				04:00 PM				05:00 PM			
+0 mins.	1	10	1	12	8	2	0	10	2	20	10	32	1	4	1	6
+15 mins.	**4**	**23**	1	**28**	4	1	0	5	1	12	13	26	0	**5**	**3**	**8**
+30 mins.	1	4	**2**	7	**15**	1	0	16	2	22	15	39	0	2	1	3
+45 mins.	1	20	1	22	12	**4**	**2**	**18**	**3**	**23**	**16**	**42**	**2**	5	0	7
Total Volume	7	57	5	69	39	8	2	49	8	77	54	139	3	16	5	24
% App. Total	10.1	82.6	7.2		79.6	16.3	4.1		5.8	55.4	38.8		12.5	66.7	20.8	
PHF	.438	.620	.625	.616	.650	.500	.250	.681	.667	.837	.844	.827	.375	.800	.417	.750

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City of San Bernardino
N/S: Lena Road
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File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Passenger Vehicles

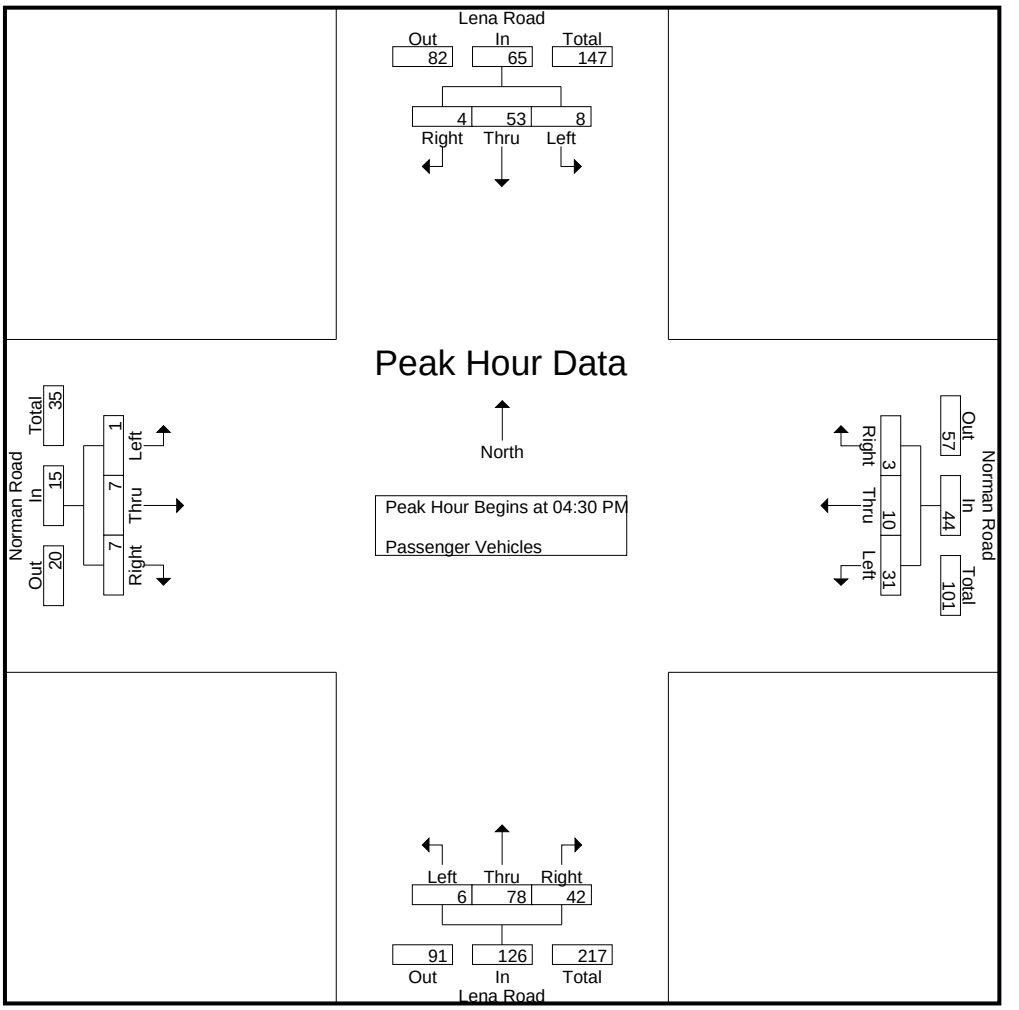
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	7	1	9	8	1	0	9	2	15	10	27	0	2	2	4	49
04:15 PM	1	10	1	12	4	1	0	5	1	10	12	23	0	1	1	2	42
04:30 PM	4	22	1	27	15	1	0	16	2	20	14	36	0	0	3	3	82
04:45 PM	1	4	2	7	11	4	2	17	3	19	15	37	0	0	0	0	61
Total	7	43	5	55	38	7	2	47	8	64	51	123	0	3	6	9	234
05:00 PM	1	19	1	21	2	1	1	4	1	18	6	25	1	4	1	6	56
05:15 PM	2	8	0	10	3	4	0	7	0	21	7	28	0	3	3	6	51
05:30 PM	1	12	0	13	4	2	2	8	1	12	3	16	0	1	0	1	38
05:45 PM	0	7	1	8	5	2	1	8	2	15	9	26	1	3	0	4	46
Total	4	46	2	52	14	9	4	27	4	66	25	95	2	11	4	17	191
Grand Total	11	89	7	107	52	16	6	74	12	130	76	218	2	14	10	26	425
Apprch %	10.3	83.2	6.5		70.3	21.6	8.1		5.5	59.6	34.9		7.7	53.8	38.5		
Total %	2.6	20.9	1.6	25.2	12.2	3.8	1.4	17.4	2.8	30.6	17.9	51.3	0.5	3.3	2.4	6.1	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**4**	**22**	1	**27**	**15**	1	0	16	2	20	14	36	0	0	**3**	3	**82**
04:45 PM	1	4	**2**	7	11	**4**	**2**	**17**	**3**	19	**15**	**37**	0	0	0	0	61
05:00 PM	1	19	1	21	2	1	1	4	1	18	6	25	**1**	**4**	1	**6**	56
05:15 PM	2	8	0	10	3	4	0	7	0	**21**	7	28	0	3	3	6	51
Total Volume	8	53	4	65	31	10	3	44	6	78	42	126	1	7	7	15	250
% App. Total	12.3	81.5	6.2		70.5	22.7	6.8		4.8	61.9	33.3		6.7	46.7	46.7		
PHF	.500	.602	.500	.602	.517	.625	.375	.647	.500	.929	.700	.851	.250	.438	.583	.625	.762

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Site Code : 99921278
Start Date : 6/15/2021



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**4**	**22**	1	**27**	**15**	1	0	16	2	20	14	36	0	0	**3**	3
+15 mins.	1	4	**2**	7	11	**4**	**2**	**17**	**3**	19	**15**	**37**	0	0	0	0
+30 mins.	1	19	1	21	2	1	1	4	1	18	6	25	**1**	**4**	1	**6**
+45 mins.	2	8	0	10	3	4	0	7	0	**21**	7	28	0	3	3	6
Total Volume	8	53	4	65	31	10	3	44	6	78	42	126	1	7	7	15
% App. Total	12.3	81.5	6.2		70.5	22.7	6.8		4.8	61.9	33.3		6.7	46.7	46.7	
PHF	.500	.602	.500	.602	.517	.625	.375	.647	.500	.929	.700	.851	.250	.438	.583	.625

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Large 2 Axle Vehicles

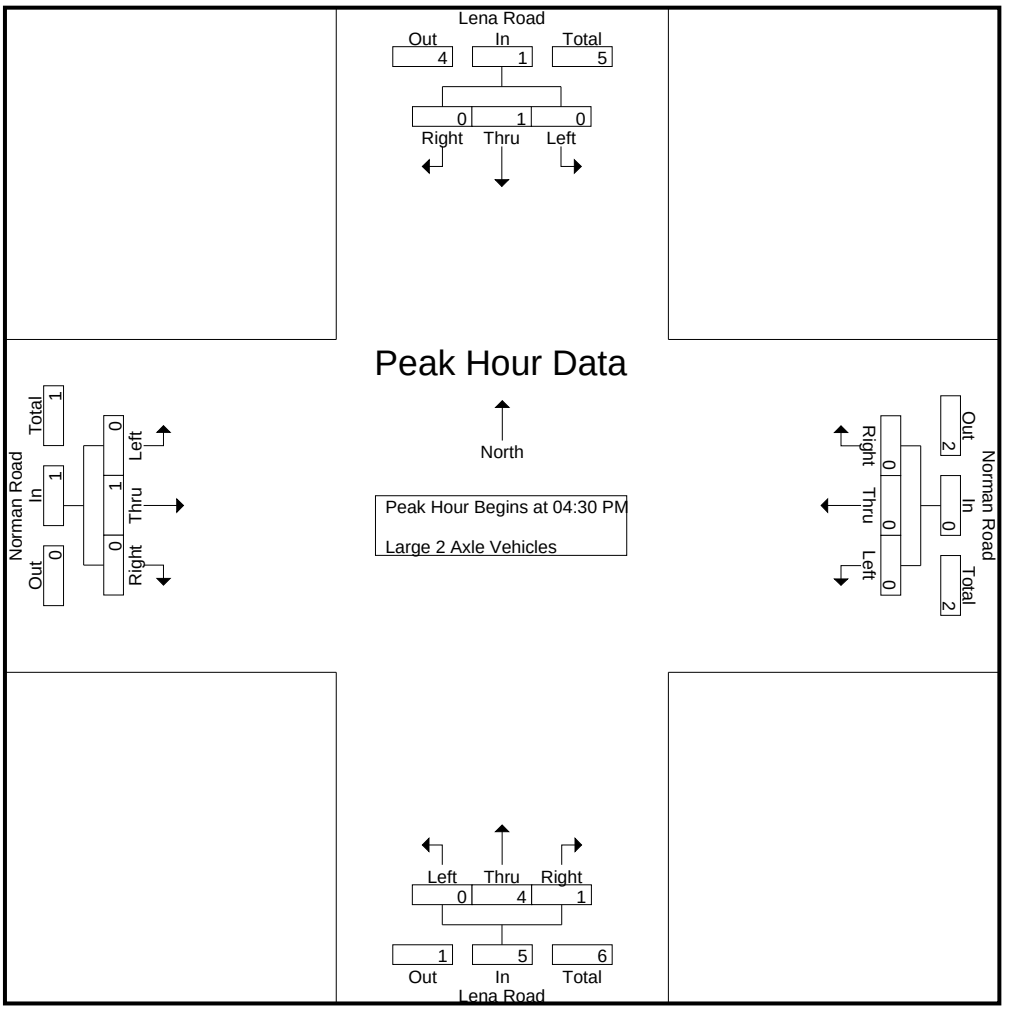
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	3
Total	0	2	0	2	0	0	0	0	0	2	1	3	0	0	0	0	5
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	1	3
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	2
Total	0	0	0	0	0	0	0	0	0	4	0	4	1	1	0	2	6
Grand Total	0	2	0	2	0	0	0	0	0	6	1	7	1	1	0	2	11
Apprch %	0	100	0		0	0	0		0	85.7	14.3		50	50	0		
Total %	0	18.2	0	18.2	0	0	0	0	0	54.5	9.1	63.6	9.1	9.1	0	18.2	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	**2**	**1**	**3**	0	0	0	0	**3**
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	**1**	0	**1**	3
Total Volume	0	1	0	1	0	0	0	0	0	4	1	5	0	1	0	1	7
% App. Total	0	100	0		0	0	0		0	80	20		0	100	0		
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.500	.250	.417	.000	.250	.000	.250	.583

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N/S: Lena Road
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Site Code : 99921278
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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	**2**	**1**	**3**	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	2	0	2	0	**1**	0	**1**
Total Volume	0	1	0	1	0	0	0	0	0	4	1	5	0	1	0	1
% App. Total	0	100	0		0	0	0		0	80	20		0	100	0	
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.500	.250	.417	.000	.250	.000	.250

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
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Groups Printed- 3 Axle Vehicles

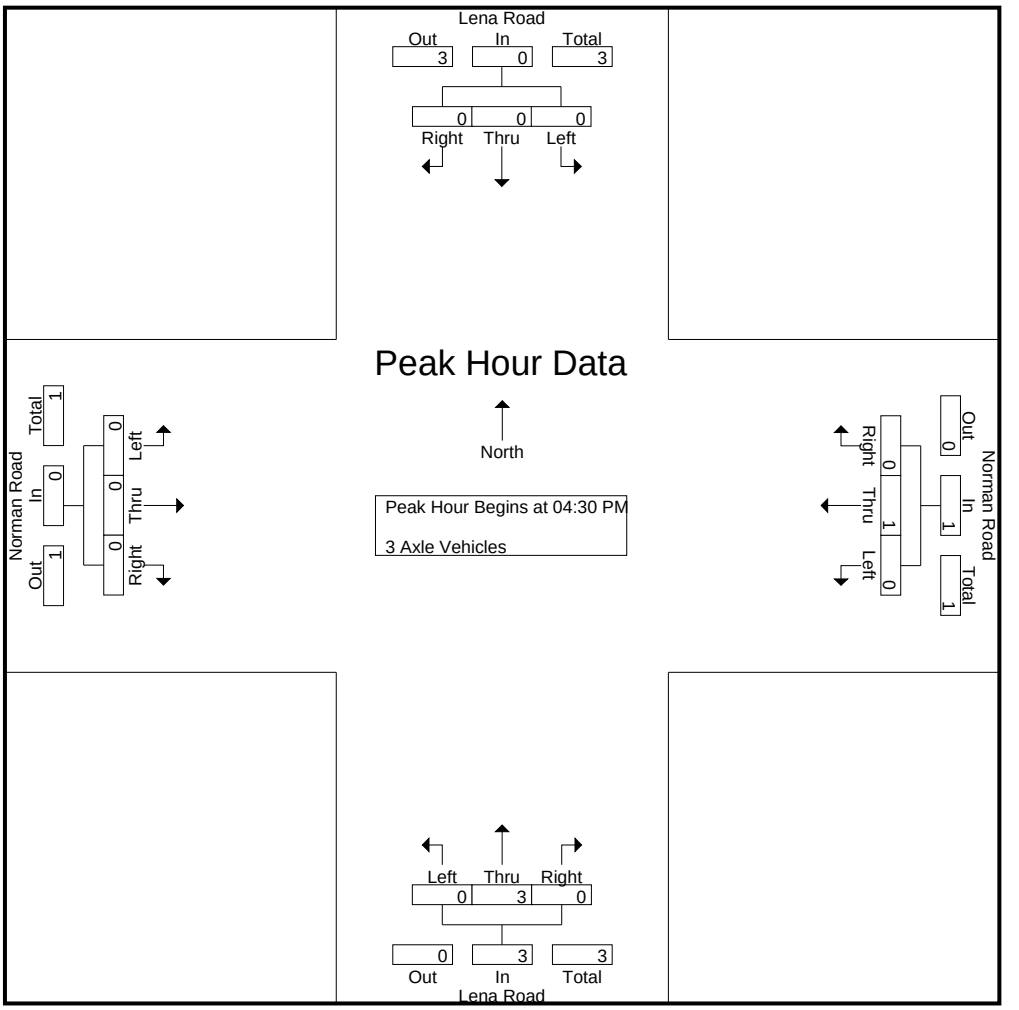
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	2	0	2	0	0	0	0	3
04:15 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	3
04:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	0	0	0	0	0	1	0	1	0	7	1	8	0	0	0	0	9
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:30 PM	0	1	0	1	0	1	0	1	0	2	1	3	0	0	1	1	6
05:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Total	0	2	0	2	0	2	0	2	0	3	1	4	0	0	1	1	9
Grand Total	0	2	0	2	0	3	0	3	0	10	2	12	0	0	1	1	18
Apprch %	0	100	0		0	100	0		0	83.3	16.7		0	0	100		
Total %	0	11.1	0	11.1	0	16.7	0	16.7	0	55.6	11.1	66.7	0	0	5.6	5.6	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	0	0	0	0	**2**	0	**2**	0	0	0	0	**2**
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	1	0	1	0	3	0	3	0	0	0	0	4
% App. Total	0	0	0		0	100	0		0	100	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.000	.375	.000	.375	.000	.000	.000	.000	.500

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Site Code : 99921278
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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	**2**	0	**2**	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	0	1	0	3	0	3	0	0	0	0
% App. Total	0	0	0		0	100	0		0	100	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.000	.375	.000	.375	.000	.000	.000	.000

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File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- 4+ Axle Trucks

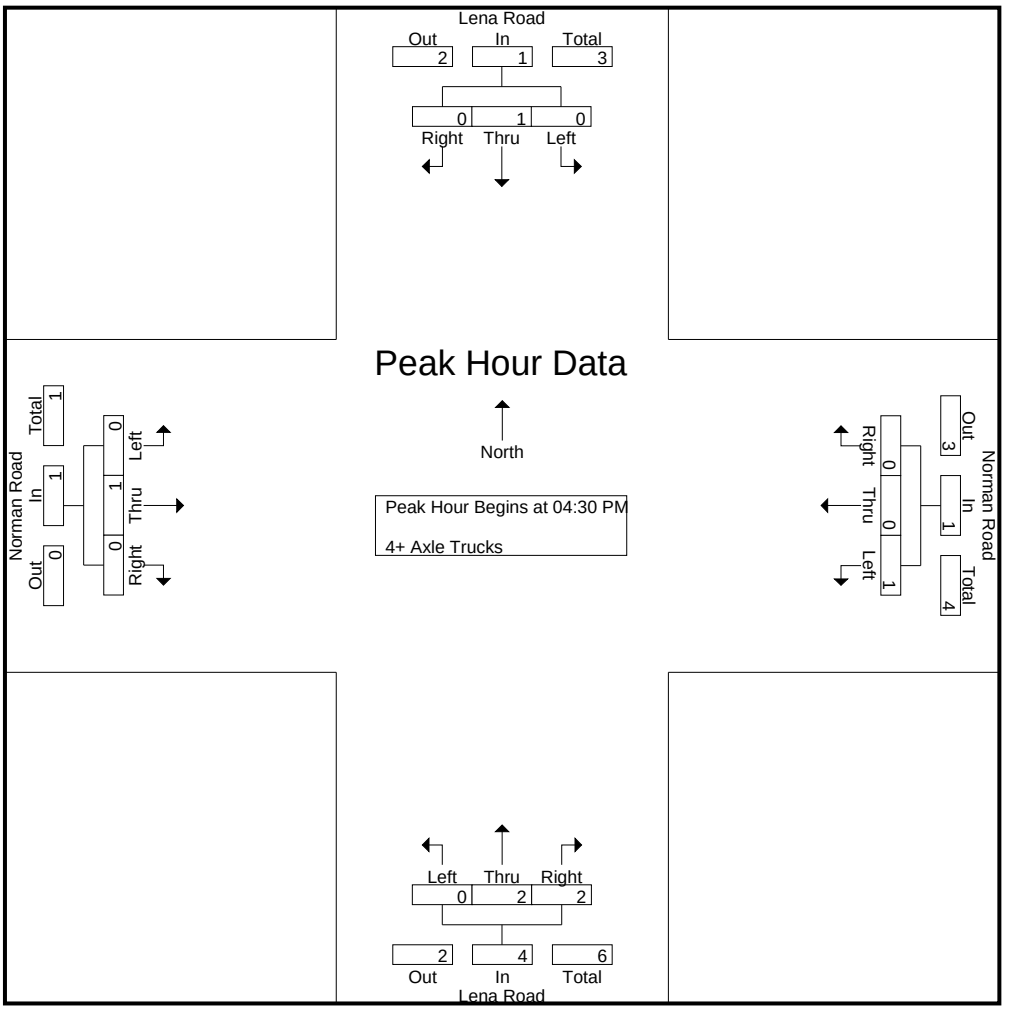
	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
04:45 PM	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	2
Total	0	0	0	0	1	0	0	1	0	4	1	5	0	0	0	0	6
05:00 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	2
05:30 PM	0	1	0	1	0	0	0	0	0	3	1	4	0	1	0	1	6
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	2	0	2	0	0	0	0	0	4	2	6	0	4	0	4	12
Grand Total	0	2	0	2	1	0	0	1	0	8	3	11	0	4	0	4	18
Apprch %	0	100	0		100	0	0		0	72.7	27.3		0	100	0		
Total %	0	11.1	0	11.1	5.6	0	0	5.6	0	44.4	16.7	61.1	0	22.2	0	22.2	

	Lena Road Southbound				Norman Road Westbound				Lena Road Northbound				Norman Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	0	0	0	0	0	**1**	**1**	0	0	0	0	1
04:45 PM	0	0	0	0	**1**	0	0	**1**	0	**1**	0	1	0	0	0	0	**2**
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	1	0	1	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	**1**	0	**1**	2
Total Volume	0	1	0	1	1	0	0	1	0	2	2	4	0	1	0	1	7
% App. Total	0	100	0		100	0	0		0	50	50		0	100	0		
PHF	.000	.250	.000	.250	.250	.000	.000	.250	.000	.500	.500	1.00	.000	.250	.000	.250	.875

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City of San Bernardino
N/S: Lena Road
E/W: Norman Road
Weather: Clear

File Name : 02_SBC_Lena_Norman PM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	**1**	**1**	0	0	0	0
+15 mins.	0	0	0	0	**1**	0	0	**1**	0	**1**	0	1	0	0	0	0
+30 mins.	0	**1**	0	**1**	0	0	0	0	0	1	0	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	**1**	0	**1**
Total Volume	0	1	0	1	1	0	0	1	0	2	2	4	0	1	0	1
% App. Total	0	100	0		100	0	0		0	50	50		0	100	0	
PHF	.000	.250	.000	.250	.250	.000	.000	.250	.000	.500	.500	1.000	.000	.250	.000	.250

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

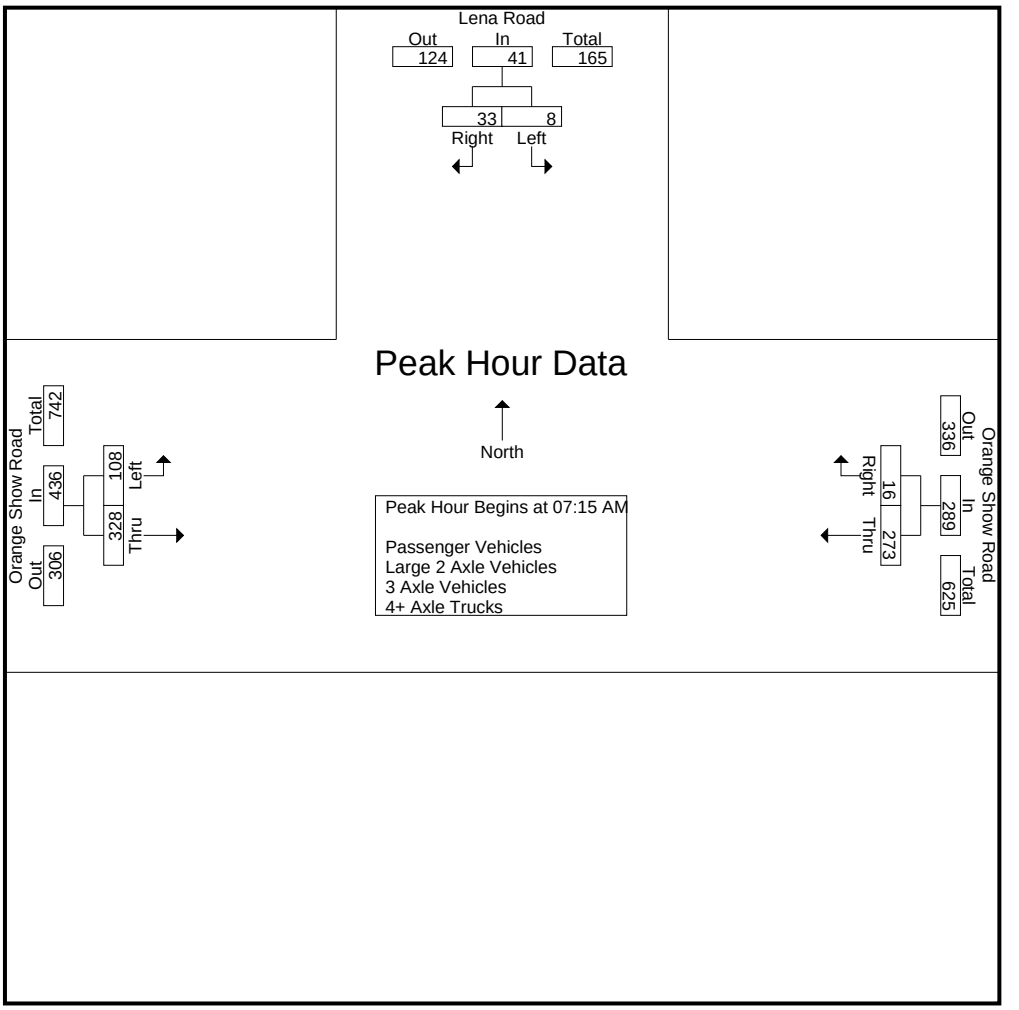
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	2	10	12	46	8	54	18	81	99	165
07:15 AM	1	5	6	56	2	58	22	78	100	164
07:30 AM	1	8	9	85	4	89	25	64	89	187
07:45 AM	2	11	13	68	9	77	35	95	130	220
Total	6	34	40	255	23	278	100	318	418	736
08:00 AM	4	9	13	64	1	65	26	91	117	195
08:15 AM	1	12	13	62	4	66	20	65	85	164
08:30 AM	6	12	18	52	5	57	18	60	78	153
08:45 AM	5	40	45	69	5	74	14	66	80	199
Total	16	73	89	247	15	262	78	282	360	711
Grand Total	22	107	129	502	38	540	178	600	778	1447
Apprch %	17.1	82.9		93	7		22.9	77.1		
Total %	1.5	7.4	8.9	34.7	2.6	37.3	12.3	41.5	53.8	
Passenger Vehicles	20	98	118	405	31	436	158	529	687	1241
% Passenger Vehicles	90.9	91.6	91.5	80.7	81.6	80.7	88.8	88.2	88.3	85.8
Large 2 Axle Vehicles	0	2	2	22	3	25	4	14	18	45
% Large 2 Axle Vehicles	0	1.9	1.6	4.4	7.9	4.6	2.2	2.3	2.3	3.1
3 Axle Vehicles	1	1	2	38	3	41	7	17	24	67
% 3 Axle Vehicles	4.5	0.9	1.6	7.6	7.9	7.6	3.9	2.8	3.1	4.6
4+ Axle Trucks	1	6	7	37	1	38	9	40	49	94
% 4+ Axle Trucks	4.5	5.6	5.4	7.4	2.6	7	5.1	6.7	6.3	6.5

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	1	5	6	56	2	58	22	78	100	164
07:30 AM	1	8	9	**85**	4	**89**	25	64	89	187
07:45 AM	2	**11**	**13**	68	**9**	77	**35**	**95**	**130**	**220**
08:00 AM	**4**	9	13	64	1	65	26	91	117	195
Total Volume	8	33	41	273	16	289	108	328	436	766
% App. Total	19.5	80.5		94.5	5.5		24.8	75.2		
PHF	.500	.750	.788	.803	.444	.812	.771	.863	.838	.870

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM			07:30 AM			07:15 AM		
+0 mins.	4	9	13	**85**	4	**89**	22	78	100
+15 mins.	1	12	13	68	**9**	77	25	64	89
+30 mins.	**6**	12	18	64	1	65	**35**	**95**	**130**
+45 mins.	5	**40**	**45**	62	4	66	26	91	117
Total Volume	16	73	89	279	18	297	108	328	436
% App. Total	18	82		93.9	6.1		24.8	75.2	
PHF	.667	.456	.494	.821	.500	.834	.771	.863	.838

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Passenger Vehicles

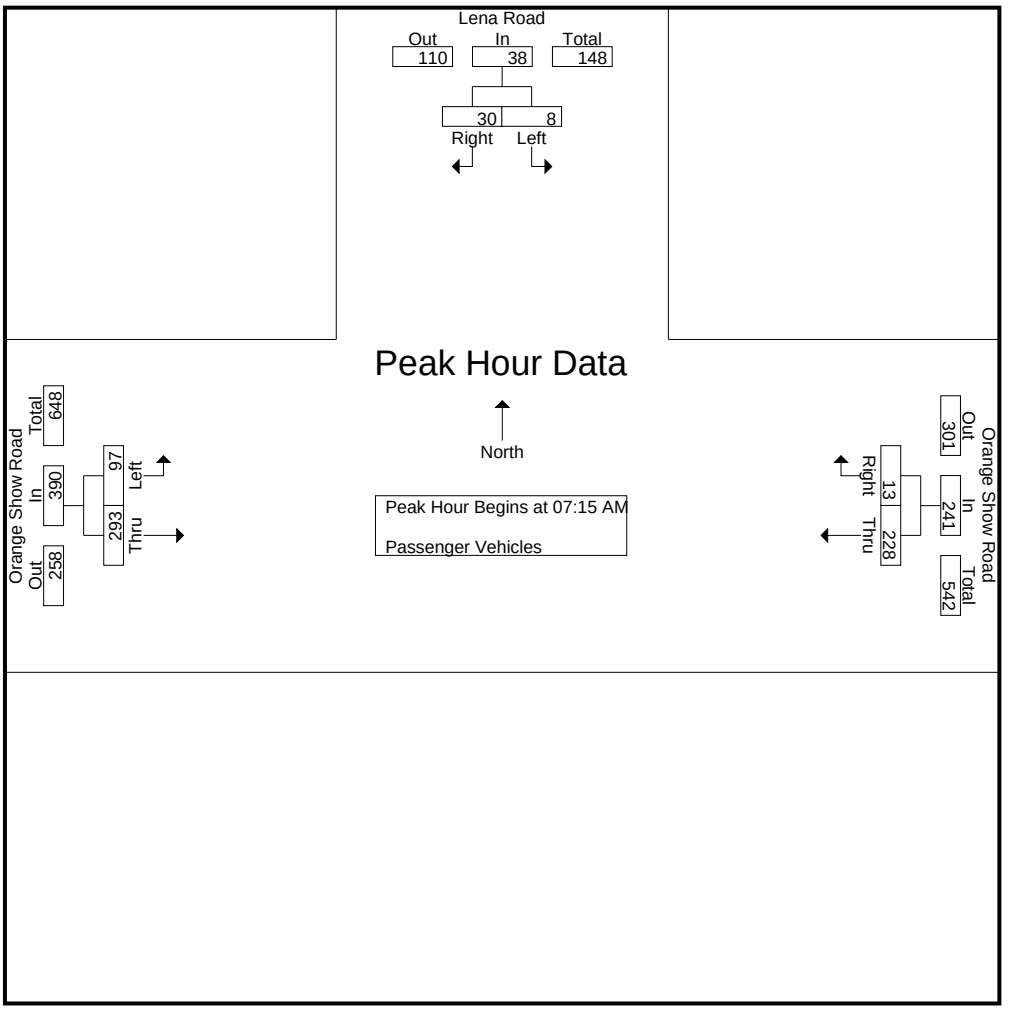
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	2	9	11	35	7	42	17	74	91	144
07:15 AM	1	5	6	45	0	45	21	74	95	146
07:30 AM	1	8	9	70	4	74	22	53	75	158
07:45 AM	2	10	12	55	8	63	31	86	117	192
Total	6	32	38	205	19	224	91	287	378	640
08:00 AM	4	7	11	58	1	59	23	80	103	173
08:15 AM	1	11	12	45	2	47	18	56	74	133
08:30 AM	6	11	17	44	4	48	13	52	65	130
08:45 AM	3	37	40	53	5	58	13	54	67	165
Total	14	66	80	200	12	212	67	242	309	601
Grand Total	20	98	118	405	31	436	158	529	687	1241
Apprch %	16.9	83.1		92.9	7.1		23	77		
Total %	1.6	7.9	9.5	32.6	2.5	35.1	12.7	42.6	55.4	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	1	5	6	45	0	45	21	74	95	146
07:30 AM	1	8	9	**70**	4	**74**	22	53	75	158
07:45 AM	2	**10**	**12**	55	**8**	63	**31**	**86**	**117**	**192**
08:00 AM	**4**	7	11	58	1	59	23	80	103	173
Total Volume	8	30	38	228	13	241	97	293	390	669
% App. Total	21.1	78.9		94.6	5.4		24.9	75.1		
PHF	.500	.750	.792	.814	.406	.814	.782	.852	.833	.871

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	1	5	6	45	0	45	21	74	95
+15 mins.	1	8	9	**70**	4	**74**	22	53	75
+30 mins.	2	**10**	**12**	55	**8**	63	**31**	**86**	**117**
+45 mins.	**4**	7	11	58	1	59	23	80	103
Total Volume	8	30	38	228	13	241	97	293	390
% App. Total	21.1	78.9		94.6	5.4		24.9	75.1	
PHF	.500	.750	.792	.814	.406	.814	.782	.852	.833

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- Large 2 Axle Vehicles

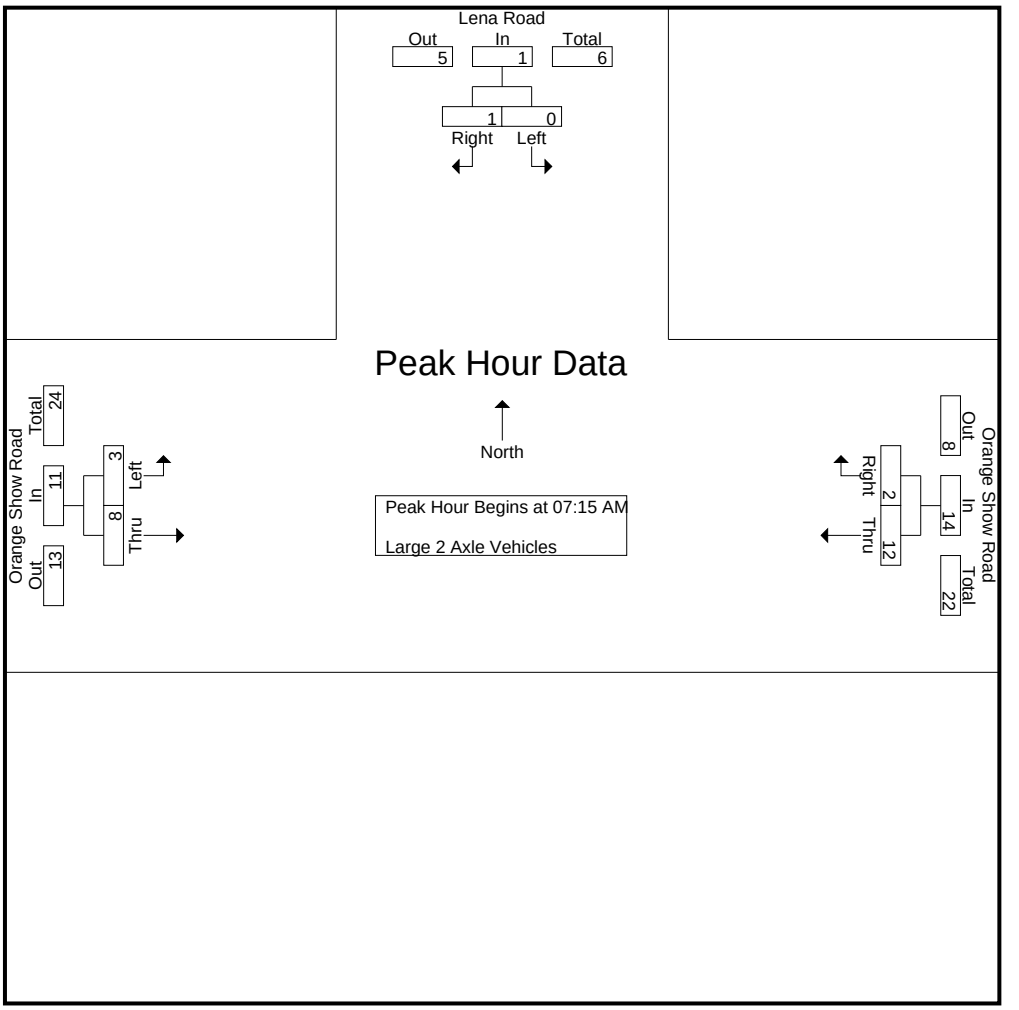
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	3	0	3	1	2	3	6
07:15 AM	0	0	0	3	2	5	1	1	2	7
07:30 AM	0	0	0	5	0	5	1	4	5	10
07:45 AM	0	1	1	2	0	2	1	0	1	4
Total	0	1	1	13	2	15	4	7	11	27
08:00 AM	0	0	0	2	0	2	0	3	3	5
08:15 AM	0	0	0	4	1	5	0	2	2	7
08:30 AM	0	1	1	1	0	1	0	1	1	3
08:45 AM	0	0	0	2	0	2	0	1	1	3
Total	0	1	1	9	1	10	0	7	7	18
Grand Total	0	2	2	22	3	25	4	14	18	45
Apprch %	0	100		88	12		22.2	77.8		
Total %	0	4.4	4.4	48.9	6.7	55.6	8.9	31.1	40	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	0	0	3	**2**	**5**	**1**	1	2	7
07:30 AM	0	0	0	**5**	0	5	1	**4**	**5**	**10**
07:45 AM	0	**1**	**1**	2	0	2	1	0	1	4
08:00 AM	0	0	0	2	0	2	0	3	3	5
Total Volume	0	1	1	12	2	14	3	8	11	26
% App. Total	0	100		85.7	14.3		27.3	72.7		
PHF	.000	.250	.250	.600	.250	.700	.750	.500	.550	.650

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	0	0	3	**2**	**5**	**1**	1	2
+15 mins.	0	0	0	**5**	0	5	1	**4**	**5**
+30 mins.	0	**1**	**1**	2	0	2	1	0	1
+45 mins.	0	0	0	2	0	2	0	3	3
Total Volume	0	1	1	12	2	14	3	8	11
% App. Total	0	100		85.7	14.3		27.3	72.7	
PHF	.000	.250	.250	.600	.250	.700	.750	.500	.550

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 1

Groups Printed- 3 Axle Vehicles

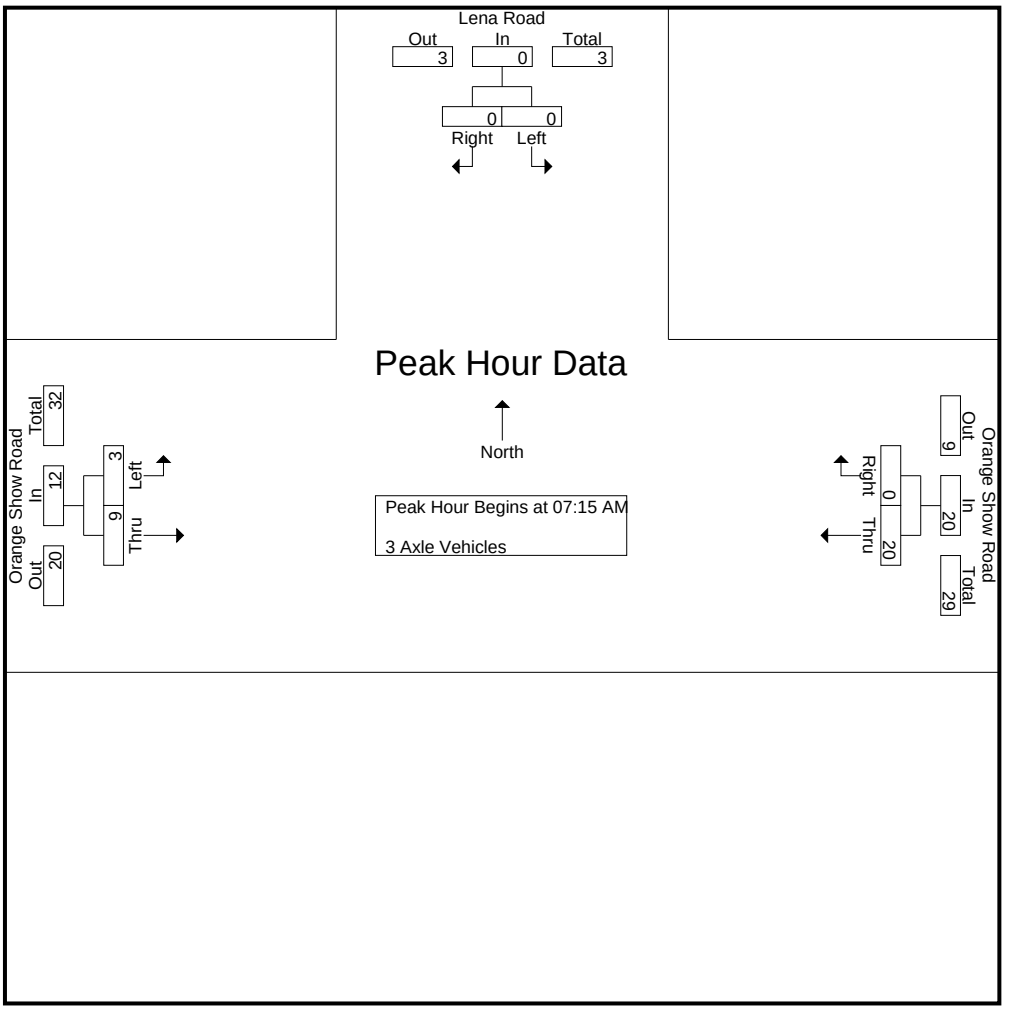
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	1	1	4	1	5	0	0	0	6
07:15 AM	0	0	0	2	0	2	0	1	1	3
07:30 AM	0	0	0	6	0	6	0	1	1	7
07:45 AM	0	0	0	9	0	9	1	4	5	14
Total	0	1	1	21	1	22	1	6	7	30
08:00 AM	0	0	0	3	0	3	2	3	5	8
08:15 AM	0	0	0	5	1	6	2	3	5	11
08:30 AM	0	0	0	2	1	3	2	2	4	7
08:45 AM	1	0	1	7	0	7	0	3	3	11
Total	1	0	1	17	2	19	6	11	17	37
Grand Total	1	1	2	38	3	41	7	17	24	67
Apprch %	50	50		92.7	7.3		29.2	70.8		
Total %	1.5	1.5	3	56.7	4.5	61.2	10.4	25.4	35.8	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	0	0	2	0	2	0	1	1	3
07:30 AM	0	0	0	6	0	6	0	1	1	7
07:45 AM	0	0	0	**9**	0	**9**	1	**4**	**5**	**14**
08:00 AM	0	0	0	3	0	3	**2**	3	5	8
Total Volume	0	0	0	20	0	20	3	9	12	32
% App. Total	0	0		100	0		25	75		
PHF	.000	.000	.000	.556	.000	.556	.375	.563	.600	.571

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	0	0	2	0	2	0	1	1
+15 mins.	0	0	0	6	0	6	0	1	1
+30 mins.	0	0	0	**9**	0	**9**	1	**4**	**5**
+45 mins.	0	0	0	3	0	3	**2**	3	5
Total Volume	0	0	0	20	0	20	3	9	12
% App. Total	0	0		100	0		25	75	
PHF	.000	.000	.000	.556	.000	.556	.375	.563	.600

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
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Groups Printed- 4+ Axle Trucks

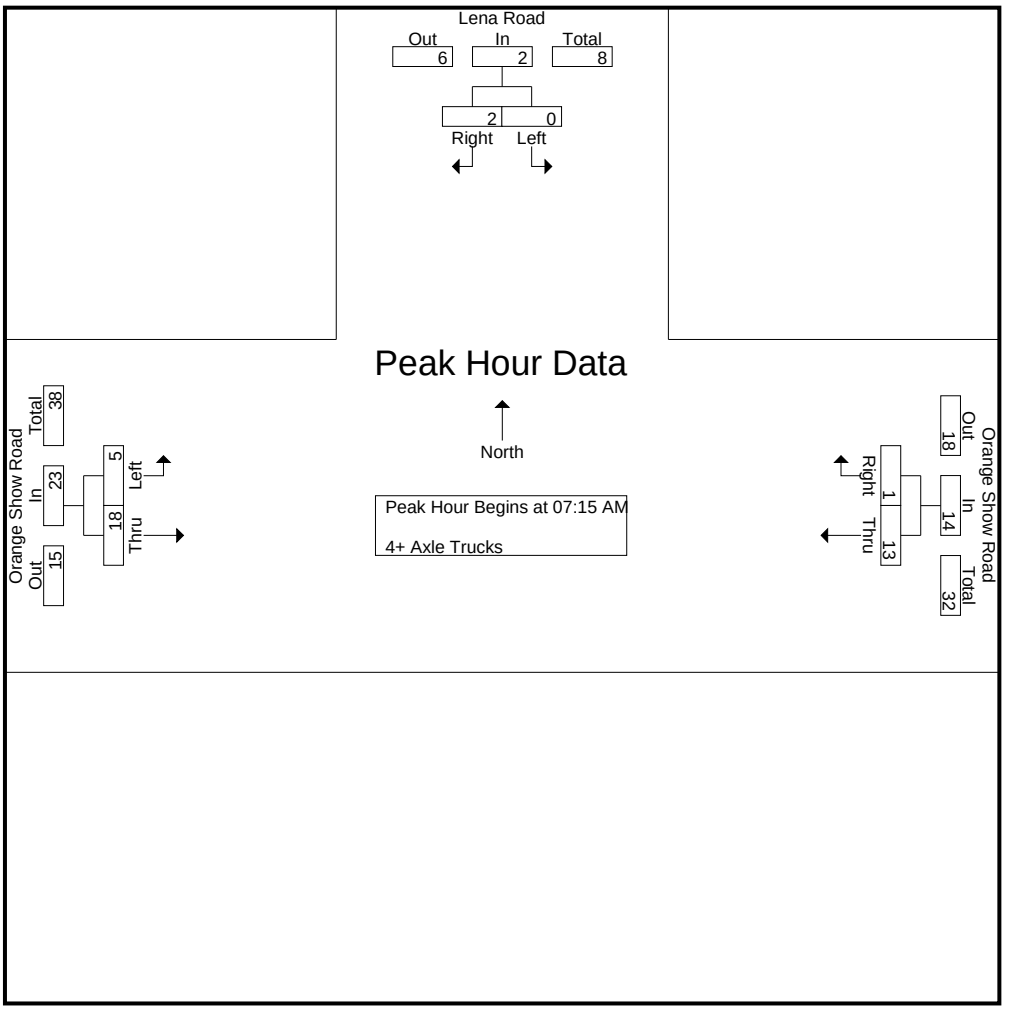
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	4	0	4	0	5	5	9
07:15 AM	0	0	0	6	0	6	0	2	2	8
07:30 AM	0	0	0	4	0	4	2	6	8	12
07:45 AM	0	0	0	2	1	3	2	5	7	10
Total	0	0	0	16	1	17	4	18	22	39
08:00 AM	0	2	2	1	0	1	1	5	6	9
08:15 AM	0	1	1	8	0	8	0	4	4	13
08:30 AM	0	0	0	5	0	5	3	5	8	13
08:45 AM	1	3	4	7	0	7	1	8	9	20
Total	1	6	7	21	0	21	5	22	27	55
Grand Total	1	6	7	37	1	38	9	40	49	94
Apprch %	14.3	85.7		97.4	2.6		18.4	81.6		
Total %	1.1	6.4	7.4	39.4	1.1	40.4	9.6	42.6	52.1	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	0	0	**6**	0	**6**	0	2	2	8
07:30 AM	0	0	0	4	0	4	**2**	**6**	**8**	**12**
07:45 AM	0	0	0	2	**1**	3	2	5	7	10
08:00 AM	0	**2**	**2**	1	0	1	1	5	6	9
Total Volume	0	2	2	13	1	14	5	18	23	39
% App. Total	0	100		92.9	7.1		21.7	78.3		
PHF	.000	.250	.250	.542	.250	.583	.625	.750	.719	.813

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange AM
Site Code : 99921278
Start Date : 6/15/2021
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	0	0	**6**	0	**6**	0	2	2
+15 mins.	0	0	0	4	0	4	**2**	**6**	**8**
+30 mins.	0	0	0	2	**1**	3	2	5	7
+45 mins.	0	**2**	**2**	1	0	1	1	5	6
Total Volume	0	2	2	13	1	14	5	18	23
% App. Total	0	100		92.9	7.1		21.7	78.3	
PHF	.000	.250	.250	.542	.250	.583	.625	.750	.719

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City of San Bernardino
N/S: Lena Road
E/W: Orange Show Road
Weather: Clear

File Name : 03_SBC_Lena_Orange PM
Site Code : 99921278
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

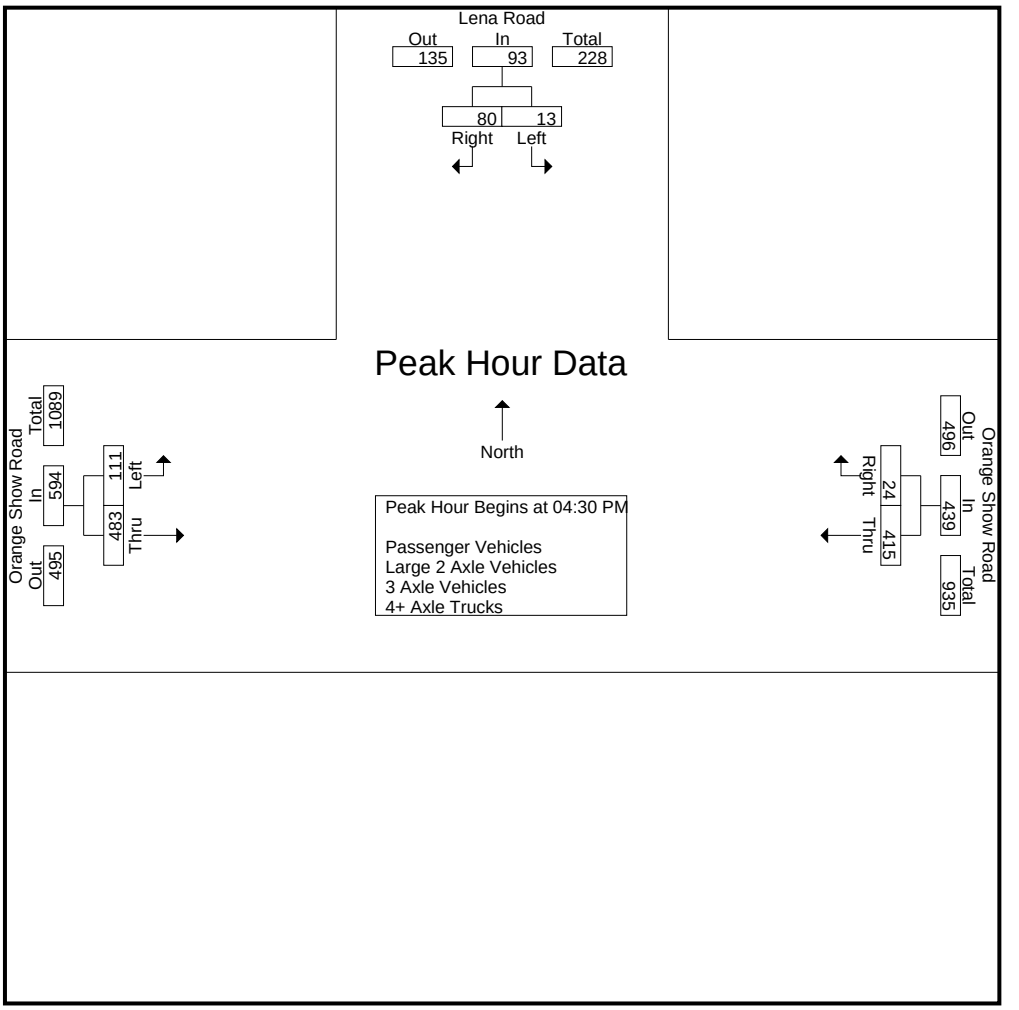
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	2	17	19	117	4	121	26	107	133	273
04:15 PM	4	13	17	79	3	82	22	105	127	226
04:30 PM	6	34	40	153	10	163	27	118	145	348
04:45 PM	1	16	17	87	7	94	35	88	123	234
Total	13	80	93	436	24	460	110	418	528	1081
05:00 PM	5	19	24	99	1	100	23	137	160	284
05:15 PM	1	11	12	76	6	82	26	140	166	260
05:30 PM	1	19	20	78	5	83	20	115	135	238
05:45 PM	0	14	14	56	3	59	23	121	144	217
Total	7	63	70	309	15	324	92	513	605	999
Grand Total	20	143	163	745	39	784	202	931	1133	2080
Apprch %	12.3	87.7		95	5		17.8	82.2		
Total %	1	6.9	7.8	35.8	1.9	37.7	9.7	44.8	54.5	
Passenger Vehicles	20	135	155	656	33	689	174	834	1008	1852
% Passenger Vehicles	100	94.4	95.1	88.1	84.6	87.9	86.1	89.6	89	89
Large 2 Axle Vehicles	0	3	3	8	2	10	10	32	42	55
% Large 2 Axle Vehicles	0	2.1	1.8	1.1	5.1	1.3	5	3.4	3.7	2.6
3 Axle Vehicles	0	2	2	26	0	26	11	22	33	61
% 3 Axle Vehicles	0	1.4	1.2	3.5	0	3.3	5.4	2.4	2.9	2.9
4+ Axle Trucks	0	3	3	55	4	59	7	43	50	112
% 4+ Axle Trucks	0	2.1	1.8	7.4	10.3	7.5	3.5	4.6	4.4	5.4

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**6**	**34**	**40**	**153**	**10**	**163**	27	118	145	**348**
04:45 PM	1	16	17	87	7	94	**35**	88	123	234
05:00 PM	5	19	24	99	1	100	23	137	160	284
05:15 PM	1	11	12	76	6	82	26	**140**	**166**	260
Total Volume	13	80	93	415	24	439	111	483	594	1126
% App. Total	14	86		94.5	5.5		18.7	81.3		
PHF	.542	.588	.581	.678	.600	.673	.793	.863	.895	.809

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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM			04:00 PM			05:00 PM		
+0 mins.	4	13	17	117	4	121	23	137	160
+15 mins.	**6**	**34**	**40**	79	3	82	**26**	**140**	**166**
+30 mins.	1	16	17	**153**	**10**	**163**	20	115	135
+45 mins.	5	19	24	87	7	94	23	121	144
Total Volume	16	82	98	436	24	460	92	513	605
% App. Total	16.3	83.7		94.8	5.2		15.2	84.8	
PHF	.667	.603	.613	.712	.600	.706	.885	.916	.911

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Groups Printed- Passenger Vehicles

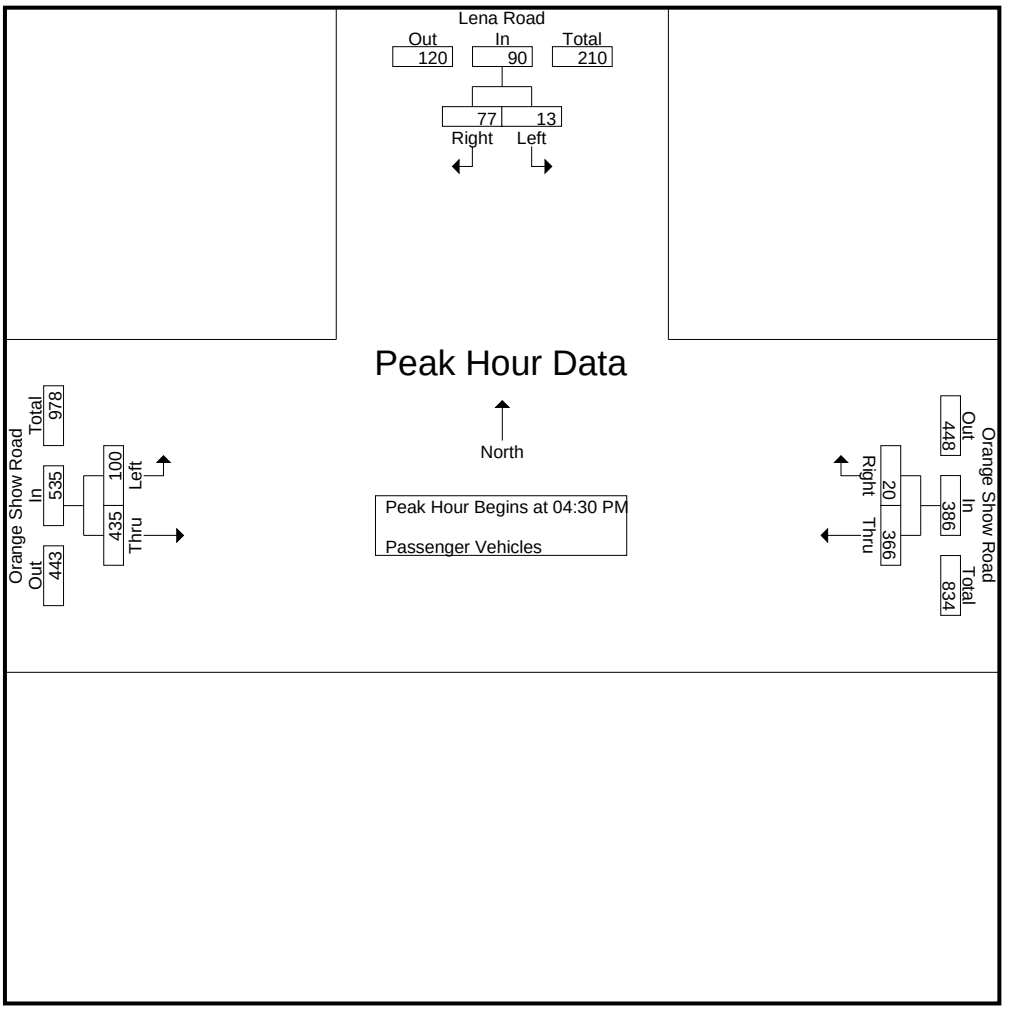
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	2	16	18	107	4	111	20	93	113	242
04:15 PM	4	13	17	67	3	70	19	95	114	201
04:30 PM	6	33	39	140	9	149	25	101	126	314
04:45 PM	1	15	16	78	5	83	30	80	110	209
Total	13	77	90	392	21	413	94	369	463	966
05:00 PM	5	18	23	85	1	86	22	127	149	258
05:15 PM	1	11	12	63	5	68	23	127	150	230
05:30 PM	1	16	17	69	3	72	14	100	114	203
05:45 PM	0	13	13	47	3	50	21	111	132	195
Total	7	58	65	264	12	276	80	465	545	886
Grand Total	20	135	155	656	33	689	174	834	1008	1852
Apprch %	12.9	87.1		95.2	4.8		17.3	82.7		
Total %	1.1	7.3	8.4	35.4	1.8	37.2	9.4	45	54.4	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**6**	**33**	**39**	**140**	**9**	**149**	25	101	126	**314**
04:45 PM	1	15	16	78	5	83	**30**	80	110	209
05:00 PM	5	18	23	85	1	86	22	**127**	149	258
05:15 PM	1	11	12	63	5	68	23	127	**150**	230
Total Volume	13	77	90	366	20	386	100	435	535	1011
% App. Total	14.4	85.6		94.8	5.2		18.7	81.3		
PHF	.542	.583	.577	.654	.556	.648	.833	.856	.892	.805

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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	**6**	**33**	**39**	**140**	**9**	**149**	25	101	126
+15 mins.	1	15	16	78	5	83	**30**	80	110
+30 mins.	5	18	23	85	1	86	22	**127**	149
+45 mins.	1	11	12	63	5	68	23	127	**150**
Total Volume	13	77	90	366	20	386	100	435	535
% App. Total	14.4	85.6		94.8	5.2		18.7	81.3	
PHF	.542	.583	.577	.654	.556	.648	.833	.856	.892

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City of San Bernardino
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Groups Printed- Large 2 Axle Vehicles

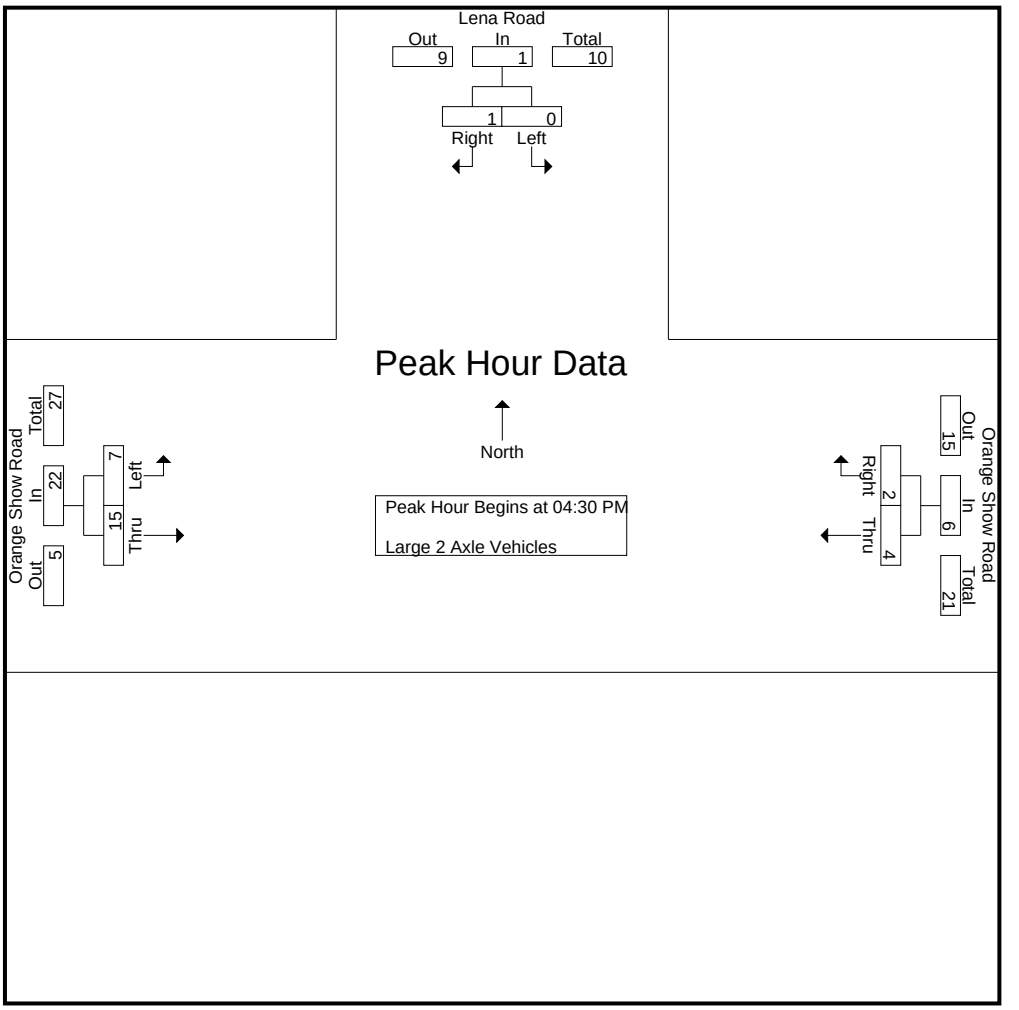
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	1	1	1	0	1	1	4	5	7
04:15 PM	0	0	0	1	0	1	0	4	4	5
04:30 PM	0	1	1	1	0	1	1	3	4	6
04:45 PM	0	0	0	1	1	2	4	3	7	9
Total	0	2	2	4	1	5	6	14	20	27
05:00 PM	0	0	0	2	0	2	0	3	3	5
05:15 PM	0	0	0	0	1	1	2	6	8	9
05:30 PM	0	1	1	1	0	1	1	6	7	9
05:45 PM	0	0	0	1	0	1	1	3	4	5
Total	0	1	1	4	1	5	4	18	22	28
Grand Total	0	3	3	8	2	10	10	32	42	55
Apprch %	0	100		80	20		23.8	76.2		
Total %	0	5.5	5.5	14.5	3.6	18.2	18.2	58.2	76.4	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	**1**	**1**	1	0	1	1	3	4	6
04:45 PM	0	0	0	1	**1**	**2**	**4**	3	7	**9**
05:00 PM	0	0	0	**2**	0	2	0	3	3	5
05:15 PM	0	0	0	0	1	1	2	**6**	**8**	9
Total Volume	0	1	1	4	2	6	7	15	22	29
% App. Total	0	100		66.7	33.3		31.8	68.2		
PHF	.000	.250	.250	.500	.500	.750	.438	.625	.688	.806

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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	**1**	**1**	1	0	1	1	3	4
+15 mins.	0	0	0	1	**1**	**2**	**4**	3	7
+30 mins.	0	0	0	**2**	0	2	0	3	3
+45 mins.	0	0	0	0	1	1	2	**6**	**8**
Total Volume	0	1	1	4	2	6	7	15	22
% App. Total	0	100		66.7	33.3		31.8	68.2	
PHF	.000	.250	.250	.500	.500	.750	.438	.625	.688

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Weather: Clear

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Groups Printed- 3 Axle Vehicles

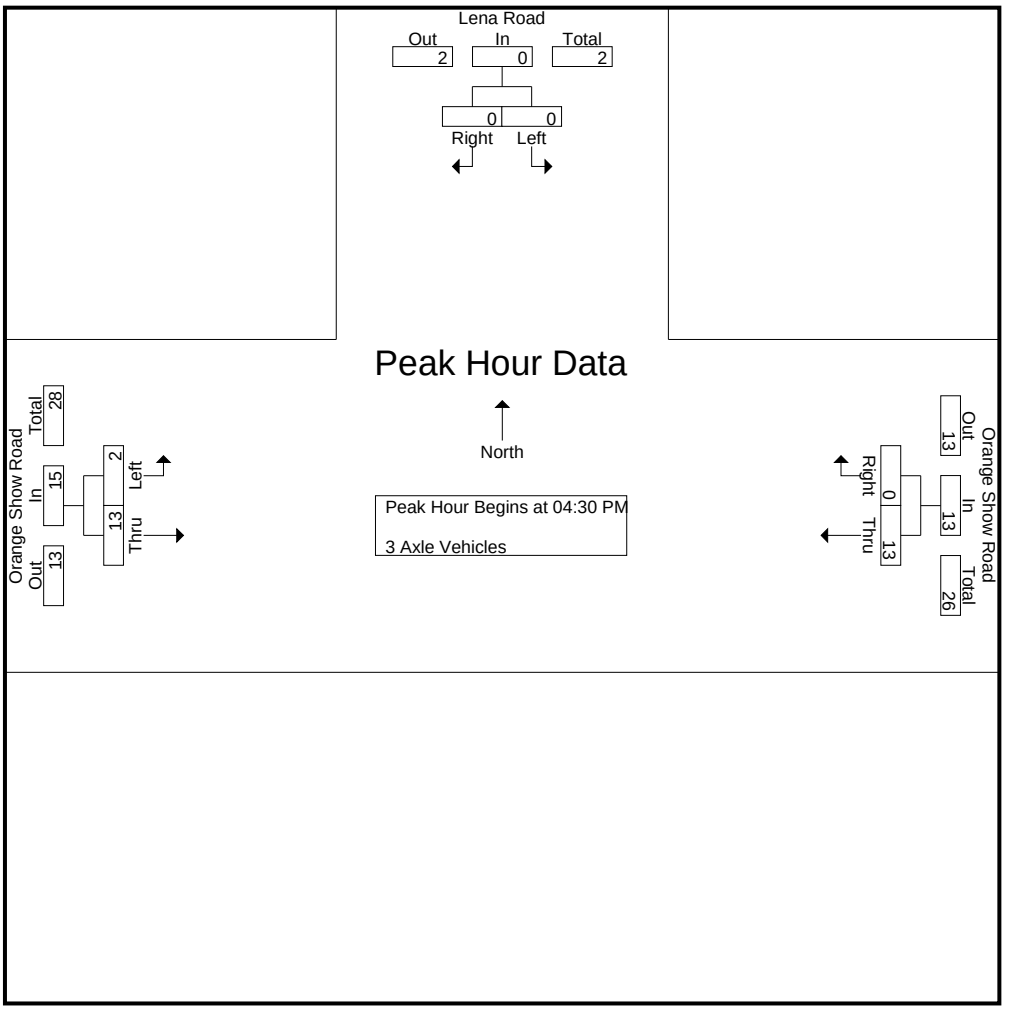
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	2	0	2	2	3	5	7
04:15 PM	0	0	0	3	0	3	3	3	6	9
04:30 PM	0	0	0	5	0	5	1	4	5	10
04:45 PM	0	0	0	2	0	2	1	1	2	4
Total	0	0	0	12	0	12	7	11	18	30
05:00 PM	0	0	0	3	0	3	0	3	3	6
05:15 PM	0	0	0	3	0	3	0	5	5	8
05:30 PM	0	1	1	2	0	2	3	3	6	9
05:45 PM	0	1	1	6	0	6	1	0	1	8
Total	0	2	2	14	0	14	4	11	15	31
Grand Total	0	2	2	26	0	26	11	22	33	61
Apprch %	0	100		100	0		33.3	66.7		
Total %	0	3.3	3.3	42.6	0	42.6	18	36.1	54.1	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	**5**	0	**5**	**1**	4	**5**	**10**
04:45 PM	0	0	0	2	0	2	1	1	2	4
05:00 PM	0	0	0	3	0	3	0	3	3	6
05:15 PM	0	0	0	3	0	3	0	**5**	5	8
Total Volume	0	0	0	13	0	13	2	13	15	28
% App. Total	0	0		100	0		13.3	86.7		
PHF	.000	.000	.000	.650	.000	.650	.500	.650	.750	.700

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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	**5**	0	**5**	**1**	4	**5**
+15 mins.	0	0	0	2	0	2	1	1	2
+30 mins.	0	0	0	3	0	3	0	3	3
+45 mins.	0	0	0	3	0	3	0	**5**	5
Total Volume	0	0	0	13	0	13	2	13	15
% App. Total	0	0		100	0		13.3	86.7	
PHF	.000	.000	.000	.650	.000	.650	.500	.650	.750

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City of San Bernardino
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File Name : 03_SBC_Lena_Orange PM
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Groups Printed- 4+ Axle Trucks

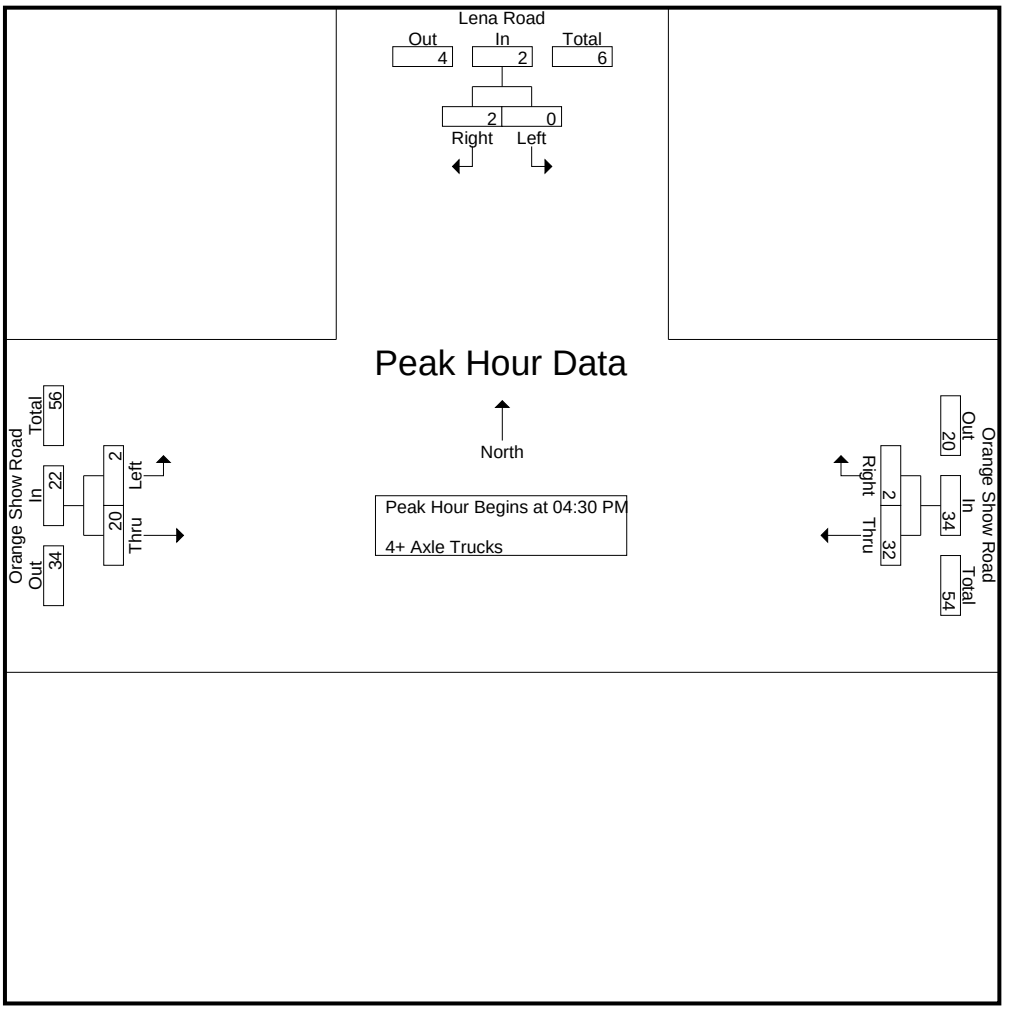
	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	7	0	7	3	7	10	17
04:15 PM	0	0	0	8	0	8	0	3	3	11
04:30 PM	0	0	0	7	1	8	0	10	10	18
04:45 PM	0	1	1	6	1	7	0	4	4	12
Total	0	1	1	28	2	30	3	24	27	58
05:00 PM	0	1	1	9	0	9	1	4	5	15
05:15 PM	0	0	0	10	0	10	1	2	3	13
05:30 PM	0	1	1	6	2	8	2	6	8	17
05:45 PM	0	0	0	2	0	2	0	7	7	9
Total	0	2	2	27	2	29	4	19	23	54
Grand Total	0	3	3	55	4	59	7	43	50	112
Apprch %	0	100		93.2	6.8		14	86		
Total %	0	2.7	2.7	49.1	3.6	52.7	6.2	38.4	44.6	

	Lena Road Southbound			Orange Show Road Westbound			Orange Show Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	7	**1**	8	0	**10**	**10**	**18**
04:45 PM	0	**1**	**1**	6	1	7	0	4	4	12
05:00 PM	0	1	1	9	0	9	**1**	4	5	15
05:15 PM	0	0	0	**10**	0	**10**	1	2	3	13
Total Volume	0	2	2	32	2	34	2	20	22	58
% App. Total	0	100		94.1	5.9		9.1	90.9		
PHF	.000	.500	.500	.800	.500	.850	.500	.500	.550	.806

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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	7	**1**	8	0	**10**	**10**
+15 mins.	0	**1**	**1**	6	1	7	0	4	4
+30 mins.	0	1	1	9	0	9	**1**	4	5
+45 mins.	0	0	0	**10**	0	**10**	1	2	3
Total Volume	0	2	2	32	2	34	2	20	22
% App. Total	0	100		94.1	5.9		9.1	90.9	
PHF	.000	.500	.500	.800	.500	.850	.500	.500	.550

APPENDIX C:
VOLUME DEVELOPMENT WORKSHEETS

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Table C-1: Existing Peak Hour Volumes
(Intersections With Classification Counts)

	AM Peak Hour						PM Peak Hour					
	Pass. Veh.	Trucks 2 Axle	3 Axle	4 Axle	PCE	Total PCE Volume	Pass. Veh.	Trucks 2 Axle	3 Axle	4 Axle	PCE	Total PCE Volume
1 . Lena Road/Norman Road												
NBL	3	0	2	0	5	8	6	0	0	0	0	6
NBT	49	0	6	5	30	79	78	4	3	2	22	100
NBR	28	0	1	0	3	31	42	1	0	2	8	50
SBL	5	0	0	0	0	5	8	0	0	0	0	8
SBT	40	0	1	5	18	58	53	1	0	1	5	58
SBR	1	0	0	0	0	1	4	0	0	0	0	4
EBL	2	0	0	0	0	2	1	0	0	0	0	1
EBT	3	1	0	0	2	5	7	1	0	1	5	12
EBR	2	0	0	0	0	2	7	0	0	0	0	7
WBL	37	1	0	1	5	42	31	0	0	1	3	34
WBT	2	0	0	0	0	2	10	0	1	0	3	13
WBR	1	1	0	1	5	6	3	0	0	0	0	3
North Leg												
Approach	46	0	1	5	18	64	65	1	0	1	5	70
Departure	52	1	6	6	35	87	82	4	3	2	22	104
Total	98	1	7	11	53	151	147	5	3	3	27	174
South Leg												
Approach	80	0	9	5	38	118	126	5	3	4	30	156
Departure	79	1	1	6	23	102	91	1	0	2	8	99
Total	159	1	10	11	61	220	217	6	3	6	38	255
East Leg												
Approach	40	2	0	2	10	50	44	0	1	1	6	50
Departure	36	1	1	0	5	41	57	2	0	3	13	70
Total	76	3	1	2	15	91	101	2	1	4	19	120
West Leg												
Approach	7	1	0	0	2	9	15	1	0	1	5	20
Departure	6	0	2	0	5	11	20	0	1	0	3	23
Total	13	1	2	0	7	20	35	1	1	1	8	43
Total Approaches												
Approach	173	3	10	12	68	241	250	7	4	7	46	296
Departure	173	3	10	12	68	241	250	7	4	7	46	296
Total	346	6	20	24	136	482	500	14	8	14	92	592

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Table C-1: Existing Peak Hour Volumes
(Intersections With Classification Counts)

	AM Peak Hour						PM Peak Hour					
	Pass. Veh.	Trucks 2 Axle	3 Axle	4 Axle	PCE	Total PCE Volume	Pass. Veh.	Trucks 2 Axle	3 Axle	4 Axle	PCE	Total PCE Volume
3 . Lena Road/Orange Show Road												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	8	0	0	0	0	8	13	0	0	0	0	13
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	30	1	0	2	8	38	77	1	0	2	8	85
EBL	97	3	3	5	29	126	100	7	2	2	25	125
EBT	293	8	9	18	93	386	435	15	13	20	123	558
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	228	12	20	13	113	341	366	4	13	32	137	503
WBR	13	2	0	1	7	20	20	2	0	2	10	30
North Leg												
Approach	38	1	0	2	8	46	90	1	0	2	8	98
Departure	110	5	3	6	36	146	120	9	2	4	35	155
Total	148	6	3	8	44	192	210	10	2	6	43	253
South Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
East Leg												
Approach	241	14	20	14	120	361	386	6	13	34	147	533
Departure	301	8	9	18	93	394	448	15	13	20	123	571
Total	542	22	29	32	213	755	834	21	26	54	270	1,104
West Leg												
Approach	390	11	12	23	122	512	535	22	15	22	148	683
Departure	258	13	20	15	121	379	443	5	13	34	145	588
Total	648	24	32	38	243	891	978	27	28	56	293	1,271
Total Approaches												
Approach	669	26	32	39	250	919	1,011	29	28	58	303	1,314
Departure	669	26	32	39	250	919	1,011	29	28	58	303	1,314
Total	1,338	52	64	78	500	1,838	2,022	58	56	116	606	2,628

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Table C-2: Existing Peak Hour Truck Percentages

	AM Peak Hour				PM Peak Hour			
	Passenger Vehicles	Total Trucks	Total Vehicle Volume	Truck %	Passenger Vehicles	Total Trucks	Total Vehicle Volume	Truck %
1 . Lena Road/Norman Road								
NBL	3	2	5	40.00%	6	0	6	0.00%
NBT	49	11	60	18.33%	78	9	87	10.34%
NBR	28	1	29	3.45%	42	3	45	6.67%
SBL	5	0	5	0.00%	8	0	8	0.00%
SBT	40	6	46	13.04%	53	2	55	3.64%
SBR	1	0	1	0.00%	4	0	4	0.00%
EBL	2	0	2	0.00%	1	0	1	0.00%
EBT	3	1	4	25.00%	7	2	9	22.22%
EBR	2	0	2	0.00%	7	0	7	0.00%
WBL	37	2	39	5.13%	31	1	32	3.13%
WBT	2	0	2	0.00%	10	1	11	9.09%
WBR	1	2	3	66.67%	3	0	3	0.00%
North Leg								
Approach	46	6	52	11.5%	65	2	67	3.0%
Departure	52	13	65	20.0%	82	9	91	9.9%
Total	98	19	117	16.2%	147	11	158	7.0%
South Leg								
Approach	80	14	94	14.9%	126	12	138	8.7%
Departure	79	8	87	9.2%	91	3	94	3.2%
Total	159	22	181	12.2%	217	15	232	6.5%
East Leg								
Approach	40	4	44	9.1%	44	2	46	4.3%
Departure	36	2	38	5.3%	57	5	62	8.1%
Total	76	6	82	7.3%	101	7	108	6.5%
West Leg								
Approach	7	1	8	12.5%	15	2	17	11.8%
Departure	6	2	8	25.0%	20	1	21	4.8%
Total	13	3	16	18.8%	35	3	38	7.9%
Total Approaches								
Approach	173	25	198		250	18	268	
Departure	173	25	198		250	18	268	
Total	346	50	396	12.6%	500	36	536	6.7%

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Table C-2: Existing Peak Hour Truck Percentages

	AM Peak Hour				PM Peak Hour			
	Passenger Vehicles	Total Trucks	Total Vehicle Volume	Truck %	Passenger Vehicles	Total Trucks	Total Vehicle Volume	Truck %
3 . Lena Road/Orange Show Road								
NBL	0	0	0	0.00%	0	0	0	0.00%
NBT	0	0	0	0.00%	0	0	0	0.00%
NBR	0	0	0	0.00%	0	0	0	0.00%
SBL	8	0	8	0.00%	13	0	13	0.00%
SBT	0	0	0	0.00%	0	0	0	0.00%
SBR	30	3	33	9.09%	77	3	80	3.75%
EBL	97	11	108	10.19%	100	11	111	9.91%
EBT	293	35	328	10.67%	435	48	483	9.94%
EBR	0	0	0	0.00%	0	0	0	0.00%
WBL	0	0	0	0.00%	0	0	0	0.00%
WBT	228	45	273	16.48%	366	49	415	11.81%
WBR	13	3	16	18.75%	20	4	24	16.67%
North Leg								
Approach	38	3	41		90	3	93	
Departure	110	14	124		120	15	135	
Total	148	17	165	10.3%	210	18	228	7.9%
South Leg								
Approach	0	0	0		0	0	0	
Departure	0	0	0		0	0	0	
Total	0	0	0	0.0%	0	0	0	0.0%
East Leg								
Approach	241	48	289		386	53	439	
Departure	301	35	336		448	48	496	
Total	542	83	625	13.3%	834	101	935	10.8%
West Leg								
Approach	390	46	436		535	59	594	
Departure	258	48	306		443	52	495	
Total	648	94	742	12.7%	978	111	1,089	10.2%
Total Approaches								
Approach	669	97	766		1,011	115	1,126	
Departure	669	97	766		1,011	115	1,126	
Total	1,338	194	1,532	12.7%	2,022	230	2,252	10.2%

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Table C-3: Existing (2022) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Exist PCE 2,021	Growth	Exist 2,022	Exist PCE 2,021	Growth	Exist 2,022
1 . Lena Road/Norman Road						
NBL	8	0	8	6	0	6
NBT	79	2	81	100	3	103
NBR	31	1	32	50	2	52
SBL	5	0	5	8	0	8
SBT	58	2	60	58	2	60
SBR	1	0	1	4	0	4
EBL	2	0	2	1	0	1
EBT	5	0	5	12	0	12
EBR	2	0	2	7	0	7
WBL	42	1	43	34	1	35
WBT	2	0	2	13	0	13
WBR	6	0	6	3	0	3
North Leg						
Approach	64	2	66	70	2	72
Departure	87	2	89	104	3	107
Total	151	4	155	174	5	179
South Leg						
Approach	118	3	121	156	5	161
Departure	102	3	105	99	3	102
Total	220	6	226	255	8	263
East Leg						
Approach	50	1	51	50	1	51
Departure	41	1	42	70	2	72
Total	91	2	93	120	3	123
West Leg						
Approach	9	0	9	20	0	20
Departure	11	0	11	23	0	23
Total	20	0	20	43	0	43
Total Approaches						
Approach	241	6	247	296	8	304
Departure	241	6	247	296	8	304
Total	482	12	494	592	16	608

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Table C-3: Existing (2022) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Exist PCE 2,021	Growth	Exist 2,022	Exist PCE 2,021	Growth	Exist 2,022
3 . Lena Road/Orange Show Road						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	0	0	0	0	0
SBL	8	0	8	13	0	13
SBT	0	0	0	0	0	0
SBR	38	1	39	85	3	88
EBL	126	4	130	125	4	129
EBT	386	12	398	558	17	575
EBR	0	0	0	0	0	0
WBL	0	0	0	0	0	0
WBT	341	10	351	503	15	518
WBR	20	1	21	30	1	31
North Leg						
Approach	46	1	47	98	3	101
Departure	146	5	151	155	5	160
Total	192	6	198	253	8	261
South Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
East Leg						
Approach	361	11	372	533	16	549
Departure	394	12	406	571	17	588
Total	755	23	778	1,104	33	1,137
West Leg						
Approach	512	16	528	683	21	704
Departure	379	11	390	588	18	606
Total	891	27	918	1,271	39	1,310
Total Approaches						
Approach	919	28	947	1,314	40	1,354
Departure	919	28	947	1,314	40	1,354
Total	1,838	56	1,894	2,628	80	2,708

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Table C-4: Existing Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Exist PCE Volumes	Adj.	Project Trips	Exist With Project	Exist PCE Volumes	Adj.	Project Trips	Exist With Project
1 . Lena Road/Norman Road								
NBL	8	0	0	8	6	0	1	7
NBT	81	0	0	81	103	0	1	104
NBR	32	-10	7	29	52	-9	4	47
SBL	5	0	3	8	8	0	1	9
SBT	60	0	0	60	60	0	0	60
SBR	1	0	0	1	4	0	0	4
EBL	2	0	0	2	1	0	0	1
EBT	5	0	2	7	12	0	1	13
EBR	2	0	0	2	7	0	0	7
WBL	43	-9	4	38	35	-13	6	28
WBT	2	0	0	2	13	0	1	14
WBR	6	0	0	6	3	0	3	6
North Leg								
Approach	66	0	3	69	72	0	1	73
Departure	89	0	0	89	107	0	4	111
Total	155	0	3	158	179	0	5	184
South Leg								
Approach	121	-10	7	118	161	-9	6	158
Departure	105	-9	4	100	102	-13	6	95
Total	226	-19	11	218	263	-22	12	253
East Leg								
Approach	51	-9	4	46	51	-13	10	48
Departure	42	-10	12	44	72	-9	6	69
Total	93	-19	16	90	123	-22	16	117
West Leg								
Approach	9	0	2	11	20	0	1	21
Departure	11	0	0	11	23	0	2	25
Total	20	0	2	22	43	0	3	46
Total Approaches								
Approach	247	-19	16	244	304	-22	18	300
Departure	247	-19	16	244	304	-22	18	300
Total	494	-38	32	488	608	-44	36	600

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Table C-4: Existing Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Exist PCE Volumes	Adj.	Project Trips	Exist With Project	Exist PCE Volumes	Adj.	Project Trips	Exist With Project
2 . Lena Road/Driveway 1								
NBL	0	0	0	0	0	0	0	0
NBT	121	-10	7	118	161	-9	4	156
NBR	0	0	2	2	0	0	1	1
SBL	0	0	0	0	0	0	0	0
SBT	105	-9	4	100	102	-13	6	95
SBR	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0
EBT	0	0	0	0	0	0	0	0
EBR	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	3	3
North Leg								
Approach	105	-9	4	100	102	-13	6	95
Departure	121	-10	7	118	161	-9	7	159
Total	226	-19	11	218	263	-22	13	254
South Leg								
Approach	121	-10	9	120	161	-9	5	157
Departure	105	-9	4	100	102	-13	6	95
Total	226	-19	13	220	263	-22	11	252
East Leg								
Approach	0	0	0	0	0	0	3	3
Departure	0	0	2	2	0	0	1	1
Total	0	0	2	2	0	0	4	4
West Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Total Approaches								
Approach	226	-19	13	220	263	-22	14	255
Departure	226	-19	13	220	263	-22	14	255
Total	452	-38	26	440	526	-44	28	510

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Table C-4: Existing Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Exist PCE Volumes	Adj.	Project Trips	Exist With Project	Exist PCE Volumes	Adj.	Project Trips	Exist With Project
3 . Lena Road/Orange Show Road								
NBL	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0
SBL	8	0	0	8	13	0	4	17
SBT	0	0	0	0	0	0	0	0
SBR	39	-9	3	33	88	-13	2	77
EBL	130	-10	9	129	129	-9	5	125
EBT	398	0	13	411	575	0	8	583
EBR	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0
WBT	351	0	10	361	518	0	16	534
WBR	21	0	0	21	31	0	0	31
North Leg								
Approach	47	-9	3	41	101	-13	6	94
Departure	151	-10	9	150	160	-9	5	156
Total	198	-19	12	191	261	-22	11	250
South Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
East Leg								
Approach	372	0	10	382	549	0	16	565
Departure	406	0	13	419	588	0	12	600
Total	778	0	23	801	1,137	0	28	1,165
West Leg								
Approach	528	-10	22	540	704	-9	13	708
Departure	390	-9	13	394	606	-13	18	611
Total	918	-19	35	934	1,310	-22	31	1,319
Total Approaches								
Approach	947	-19	35	963	1,354	-22	35	1,367
Departure	947	-19	35	963	1,354	-22	35	1,367
Total	1,894	-38	70	1,926	2,708	-44	70	2,734

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Table C-4: Existing Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Exist PCE Volumes	Adj.	Project Trips	Exist With Project	Exist PCE Volumes	Adj.	Project Trips	Exist With Project
4 . Driveway 2/Orange Show Road								
NBL	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0
SBR	0	0	10	10	0	0	16	16
EBL	0	0	13	13	0	0	8	8
EBT	406	0	0	406	588	0	4	592
EBR	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0
WBT	372	0	0	372	549	0	0	549
WBR	0	0	3	3	0	0	1	1
North Leg								
Approach	0	0	10	10	0	0	16	16
Departure	0	0	16	16	0	0	9	9
Total	0	0	26	26	0	0	25	25
South Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
East Leg								
Approach	372	0	3	375	549	0	1	550
Departure	406	0	0	406	588	0	4	592
Total	778	0	3	781	1,137	0	5	1,142
West Leg								
Approach	406	0	13	419	588	0	12	600
Departure	372	0	10	382	549	0	16	565
Total	778	0	23	801	1,137	0	28	1,165
Total Approaches								
Approach	778	0	26	804	1,137	0	29	1,166
Departure	778	0	26	804	1,137	0	29	1,166
Total	1,556	0	52	1,608	2,274	0	58	2,332

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Table C-4: Existing Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Exist PCE Volumes	Adj.	Project Trips	Exist With Project	Exist PCE Volumes	Adj.	Project Trips	Exist With Project
5 . Driveway 3/Norman Road								
NBL	0	0	4	4	0	0	10	10
NBT	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	1	1
SBL	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0
EBT	42	0	0	42	72	0	0	72
EBR	0	0	12	12	0	0	6	6
WBL	0	0	1	1	0	0	0	0
WBT	51	0	0	51	51	0	0	51
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
South Leg								
Approach	0	0	4	4	0	0	11	11
Departure	0	0	13	13	0	0	6	6
Total	0	0	17	17	0	0	17	17
East Leg								
Approach	51	0	1	52	51	0	0	51
Departure	42	0	0	42	72	0	1	73
Total	93	0	1	94	123	0	1	124
West Leg								
Approach	42	0	12	54	72	0	6	78
Departure	51	0	4	55	51	0	10	61
Total	93	0	16	109	123	0	16	139
Total Approaches								
Approach	93	0	17	110	123	0	17	140
Departure	93	0	17	110	123	0	17	140
Total	186	0	34	220	246	0	34	280

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Table C-5: Opening Year (2024) Base Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project
1 . Lena Road/Norman Road												
NBL	8	0	8	0	0	8	6	0	6	0	1	7
NBT	81	5	86	0	0	86	103	6	109	0	1	110
NBR	32	2	34	-10	7	31	52	3	55	-9	4	50
SBL	5	0	5	0	3	8	8	0	8	0	1	9
SBT	60	4	64	0	0	64	60	4	64	0	0	64
SBR	1	0	1	0	0	1	4	0	4	0	0	4
EBL	2	0	2	0	0	2	1	0	1	0	0	1
EBT	5	0	5	0	2	7	12	1	13	0	1	14
EBR	2	0	2	0	0	2	7	0	7	0	0	7
WBL	43	3	46	-9	4	41	35	2	37	-13	6	30
WBT	2	0	2	0	0	2	13	1	14	0	1	15
WBR	6	0	6	0	0	6	3	0	3	0	3	6
North Leg												
Approach	66	4	70	0	3	73	72	4	76	0	1	77
Departure	89	5	94	0	0	94	107	6	113	0	4	117
Total	155	9	164	0	3	167	179	10	189	0	5	194
South Leg												
Approach	121	7	128	-10	7	125	161	9	170	-9	6	167
Departure	105	7	112	-9	4	107	102	6	108	-13	6	101
Total	226	14	240	-19	11	232	263	15	278	-22	12	268
East Leg												
Approach	51	3	54	-9	4	49	51	3	54	-13	10	51
Departure	42	2	44	-10	12	46	72	4	76	-9	6	73
Total	93	5	98	-19	16	95	123	7	130	-22	16	124
West Leg												
Approach	9	0	9	0	2	11	20	1	21	0	1	22
Departure	11	0	11	0	0	11	23	1	24	0	2	26
Total	20	0	20	0	2	22	43	2	45	0	3	48
Total Approaches												
Approach	247	14	261	-19	16	258	304	17	321	-22	18	317
Departure	247	14	261	-19	16	258	304	17	321	-22	18	317
Total	494	28	522	-38	32	516	608	34	642	-44	36	634

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Table C-5: Opening Year (2024) Base Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project
2 . Lena Road/Driveway 1												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	121	7	128	-10	7	125	161	10	171	-9	4	166
NBR	0	0	0	0	2	2	0	0	0	0	1	1
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	105	6	111	-9	4	106	102	6	108	-13	6	101
SBR	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0
EBT	0	0	0	0	0	0	0	0	0	0	0	0
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0	0	0	3	3
North Leg												
Approach	105	6	111	-9	4	106	102	6	108	-13	6	101
Departure	121	7	128	-10	7	125	161	10	171	-9	7	169
Total	226	13	239	-19	11	231	263	16	279	-22	13	270
South Leg												
Approach	121	7	128	-10	9	127	161	10	171	-9	5	167
Departure	105	6	111	-9	4	106	102	6	108	-13	6	101
Total	226	13	239	-19	13	233	263	16	279	-22	11	268
East Leg												
Approach	0	0	0	0	0	0	0	0	0	0	3	3
Departure	0	0	0	0	2	2	0	0	0	0	1	1
Total	0	0	0	0	2	2	0	0	0	0	4	4
West Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Total Approaches												
Approach	226	13	239	-19	13	233	263	16	279	-22	14	271
Departure	226	13	239	-19	13	233	263	16	279	-22	14	271
Total	452	26	478	-38	26	466	526	32	558	-44	28	542

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Table C-5: Opening Year (2024) Base Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project
3 . Lena Road/Orange Show Road												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	8	0	8	0	0	8	13	1	14	0	4	18
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	39	2	41	-9	3	35	88	5	93	-13	2	82
EBL	130	8	138	-10	9	137	129	8	137	-9	5	133
EBT	398	24	422	0	13	435	575	35	610	0	8	618
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	351	21	372	0	10	382	518	31	549	0	16	565
WBR	21	1	22	0	0	22	31	2	33	0	0	33
North Leg												
Approach	47	2	49	-9	3	43	101	6	107	-13	6	100
Departure	151	9	160	-10	9	159	160	10	170	-9	5	166
Total	198	11	209	-19	12	202	261	16	277	-22	11	266
South Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
East Leg												
Approach	372	22	394	0	10	404	549	33	582	0	16	598
Departure	406	24	430	0	13	443	588	36	624	0	12	636
Total	778	46	824	0	23	847	1,137	69	1,206	0	28	1,234
West Leg												
Approach	528	32	560	-10	22	572	704	43	747	-9	13	751
Departure	390	23	413	-9	13	417	606	36	642	-13	18	647
Total	918	55	973	-19	35	989	1,310	79	1,389	-22	31	1,398
Total Approaches												
Approach	947	56	1,003	-19	35	1,019	1,354	82	1,436	-22	35	1,449
Departure	947	56	1,003	-19	35	1,019	1,354	82	1,436	-22	35	1,449
Total	1,894	112	2,006	-38	70	2,038	2,708	164	2,872	-44	70	2,898

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Table C-5: Opening Year (2024) Base Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project
4 . Driveway 2/Orange Show Road												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	10	10	0	0	0	0	16	16
EBL	0	0	0	0	13	13	0	0	0	0	8	8
EBT	406	24	430	0	0	430	588	35	623	0	4	627
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	372	22	394	0	0	394	549	33	582	0	0	582
WBR	0	0	0	0	3	3	0	0	0	0	1	1
North Leg												
Approach	0	0	0	0	10	10	0	0	0	0	16	16
Departure	0	0	0	0	16	16	0	0	0	0	9	9
Total	0	0	0	0	26	26	0	0	0	0	25	25
South Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
East Leg												
Approach	372	22	394	0	3	397	549	33	582	0	1	583
Departure	406	24	430	0	0	430	588	35	623	0	4	627
Total	778	46	824	0	3	827	1,137	68	1,205	0	5	1,210
West Leg												
Approach	406	24	430	0	13	443	588	35	623	0	12	635
Departure	372	22	394	0	10	404	549	33	582	0	16	598
Total	778	46	824	0	23	847	1,137	68	1,205	0	28	1,233
Total Approaches												
Approach	778	46	824	0	26	850	1,137	68	1,205	0	29	1,234
Departure	778	46	824	0	26	850	1,137	68	1,205	0	29	1,234
Total	1,556	92	1,648	0	52	1,700	2,274	136	2,410	0	58	2,468

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Table C-5: Opening Year (2024) Base Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project	Exist PCE Volumes	Growth	OY Base	Adj.	Project Trips	OY With Project
5 . Driveway 3/Norman Road												
NBL	0	0	0	0	4	4	0	0	0	0	10	10
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	1	1
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0
EBT	42	3	45	0	0	45	72	4	76	0	0	76
EBR	0	0	0	0	12	12	0	0	0	0	6	6
WBL	0	0	0	0	1	1	0	0	0	0	0	0
WBT	51	3	54	0	0	54	51	3	54	0	0	54
WBR	0	0	0	0	0	0	0	0	0	0	0	0
North Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
South Leg												
Approach	0	0	0	0	4	4	0	0	0	0	11	11
Departure	0	0	0	0	13	13	0	0	0	0	6	6
Total	0	0	0	0	17	17	0	0	0	0	17	17
East Leg												
Approach	51	3	54	0	1	55	51	3	54	0	0	54
Departure	42	3	45	0	0	45	72	4	76	0	1	77
Total	93	6	99	0	1	100	123	7	130	0	1	131
West Leg												
Approach	42	3	45	0	12	57	72	4	76	0	6	82
Departure	51	3	54	0	4	58	51	3	54	0	10	64
Total	93	6	99	0	16	115	123	7	130	0	16	146
Total Approaches												
Approach	93	6	99	0	17	116	123	7	130	0	17	147
Departure	93	6	99	0	17	116	123	7	130	0	17	147
Total	186	12	198	0	34	232	246	14	260	0	34	294

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Table C-6: Opening Year (2024) Base Plus Other Proposed Projects Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.
1 . Lena Road/Norman Road												
NBL	8	4	12	0	0	12	6	1	7	0	1	8
NBT	86	33	119	0	0	119	109	20	129	0	1	130
NBR	34	2	36	-10	7	33	55	1	56	-9	4	51
SBL	5	1	6	0	3	9	8	0	8	0	1	9
SBT	64	16	80	0	0	80	64	34	98	0	0	98
SBR	1	7	8	0	0	8	4	6	10	0	0	10
EBL	2	7	9	0	0	9	1	7	8	0	0	8
EBT	5	1	6	0	2	8	13	1	14	0	1	15
EBR	2	1	3	0	0	3	7	5	12	0	0	12
WBL	46	0	46	-9	4	41	37	2	39	-13	6	32
WBT	2	1	3	0	0	3	14	1	15	0	1	16
WBR	6	0	6	0	0	6	3	1	4	0	3	7
North Leg												
Approach	70	24	94	0	3	97	76	40	116	0	1	117
Departure	94	40	134	0	0	134	113	28	141	0	4	145
Total	164	64	228	0	3	231	189	68	257	0	5	262
South Leg												
Approach	128	39	167	-10	7	164	170	22	192	-9	6	189
Departure	112	17	129	-9	4	124	108	41	149	-13	6	142
Total	240	56	296	-19	11	288	278	63	341	-22	12	331
East Leg												
Approach	54	1	55	-9	4	50	54	4	58	-13	10	55
Departure	44	4	48	-10	12	50	76	2	78	-9	6	75
Total	98	5	103	-19	16	100	130	6	136	-22	16	130
West Leg												
Approach	9	9	18	0	2	20	21	13	34	0	1	35
Departure	11	12	23	0	0	23	24	8	32	0	2	34
Total	20	21	41	0	2	43	45	21	66	0	3	69
Total Approaches												
Approach	261	73	334	-19	16	331	321	79	400	-22	18	396
Departure	261	73	334	-19	16	331	321	79	400	-22	18	396
Total	522	146	668	-38	32	662	642	158	800	-44	36	792

Table C-6: Opening Year (2024) Base Plus Other Proposed Projects Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.
2 . Lena Road/Driveway 1												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	128	39	167	-10	7	164	171	22	193	-9	4	188
NBR	0	0	0	0	2	2	0	0	0	0	1	1
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	111	18	129	-9	4	124	108	41	149	-13	6	142
SBR	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0
EBT	0	0	0	0	0	0	0	0	0	0	0	0
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	0	0	0	0	0	0	0	0	0	0	0	0
WBR	0	0	0	0	0	0	0	0	0	0	3	3
North Leg												
Approach	111	18	129	-9	4	124	108	41	149	-13	6	142
Departure	128	39	167	-10	7	164	171	22	193	-9	7	191
Total	239	57	296	-19	11	288	279	63	342	-22	13	333
South Leg												
Approach	128	39	167	-10	9	166	171	22	193	-9	5	189
Departure	111	18	129	-9	4	124	108	41	149	-13	6	142
Total	239	57	296	-19	13	290	279	63	342	-22	11	331
East Leg												
Approach	0	0	0	0	0	0	0	0	0	0	3	3
Departure	0	0	0	0	2	2	0	0	0	0	1	1
Total	0	0	0	0	2	2	0	0	0	0	4	4
West Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Total Approaches												
Approach	239	57	296	-19	13	290	279	63	342	-22	14	334
Departure	239	57	296	-19	13	290	279	63	342	-22	14	334
Total	478	114	592	-38	26	580	558	126	684	-44	28	668

Table C-6: Opening Year (2024) Base Plus Other Proposed Projects Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.
3 . Lena Road/Orange Show Road												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	8	6	14	0	0	14	14	19	33	0	4	37
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	41	10	51	-9	3	45	93	22	115	-13	2	104
EBL	138	20	158	-10	9	157	137	12	149	-9	5	145
EBT	422	12	434	0	13	447	610	19	629	0	8	637
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	372	13	385	0	10	395	549	16	565	0	16	581
WBR	22	15	37	0	0	37	33	9	42	0	0	42
North Leg												
Approach	49	16	65	-9	3	59	107	41	148	-13	6	141
Departure	160	35	195	-10	9	194	170	21	191	-9	5	187
Total	209	51	260	-19	12	253	277	62	339	-22	11	328
South Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
East Leg												
Approach	394	28	422	0	10	432	582	25	607	0	16	623
Departure	430	18	448	0	13	461	624	38	662	0	12	674
Total	824	46	870	0	23	893	1,206	63	1,269	0	28	1,297
West Leg												
Approach	560	32	592	-10	22	604	747	31	778	-9	13	782
Departure	413	23	436	-9	13	440	642	38	680	-13	18	685
Total	973	55	1,028	-19	35	1,044	1,389	69	1,458	-22	31	1,467
Total Approaches												
Approach	1,003	76	1,079	-19	35	1,095	1,436	97	1,533	-22	35	1,546
Departure	1,003	76	1,079	-19	35	1,095	1,436	97	1,533	-22	35	1,546
Total	2,006	152	2,158	-38	70	2,190	2,872	194	3,066	-44	70	3,092

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Table C-6: Opening Year (2024) Base Plus Other Proposed Projects Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.
4 . Driveway 2/Orange Show Road												
NBL	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	10	10	0	0	0	0	16	16
EBL	0	0	0	0	13	13	0	0	0	0	8	8
EBT	430	20	450	0	0	450	623	37	660	0	4	664
EBR	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	0	0	0	0	0	0	0	0
WBT	394	30	424	0	0	424	582	24	606	0	0	606
WBR	0	0	0	0	3	3	0	0	0	0	1	1
North Leg												
Approach	0	0	0	0	10	10	0	0	0	0	16	16
Departure	0	0	0	0	16	16	0	0	0	0	9	9
Total	0	0	0	0	26	26	0	0	0	0	25	25
South Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
East Leg												
Approach	394	30	424	0	3	427	582	24	606	0	1	607
Departure	430	20	450	0	0	450	623	37	660	0	4	664
Total	824	50	874	0	3	877	1,205	61	1,266	0	5	1,271
West Leg												
Approach	430	20	450	0	13	463	623	37	660	0	12	672
Departure	394	30	424	0	10	434	582	24	606	0	16	622
Total	824	50	874	0	23	897	1,205	61	1,266	0	28	1,294
Total Approaches												
Approach	824	50	874	0	26	900	1,205	61	1,266	0	29	1,295
Departure	824	50	874	0	26	900	1,205	61	1,266	0	29	1,295
Total	1,648	100	1,748	0	52	1,800	2,410	122	2,532	0	58	2,590

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Table C-6: Opening Year (2024) Base Plus Other Proposed Projects Peak Hour Volume Summary

	AM Peak Hour						PM Peak Hour					
	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.	OY Base Volumes	Cumul. Pr. Trips	OY Base plus Other Proj.	Adj.	Project Trips	OY Base plus Other Pr. plus Pr.
5 . Driveway 3/Norman Road												
NBL	0	0	0	0	4	4	0	0	0	0	10	10
NBT	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	1	1
SBL	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0
EBT	45	0	45	0	0	45	76	2	78	0	0	78
EBR	0	0	0	0	12	12	0	0	0	0	6	6
WBL	0	0	0	0	1	1	0	0	0	0	0	0
WBT	54	2	56	0	0	56	54	0	54	0	0	54
WBR	0	0	0	0	0	0	0	0	0	0	0	0
North Leg												
Approach	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
South Leg												
Approach	0	0	0	0	4	4	0	0	0	0	11	11
Departure	0	0	0	0	13	13	0	0	0	0	6	6
Total	0	0	0	0	17	17	0	0	0	0	17	17
East Leg												
Approach	54	2	56	0	1	57	54	0	54	0	0	54
Departure	45	0	45	0	0	45	76	2	78	0	1	79
Total	99	2	101	0	1	102	130	2	132	0	1	133
West Leg												
Approach	45	0	45	0	12	57	76	2	78	0	6	84
Departure	54	2	56	0	4	60	54	0	54	0	10	64
Total	99	2	101	0	16	117	130	2	132	0	16	148
Total Approaches												
Approach	99	2	101	0	17	118	130	2	132	0	17	149
Departure	99	2	101	0	17	118	130	2	132	0	17	149
Total	198	4	202	0	34	236	260	4	264	0	34	298

APPENDIX D:
LEVEL OF SERVICE WORKSHEETS

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	5	2	43	2	6	8	81	32	5	60	1
Future Vol, veh/h	2	5	2	43	2	6	8	81	32	5	60	1
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	7	3	60	3	8	11	113	44	7	83	1
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	7.9	8.8	7.9	7.9
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	22%	84%	100%	0%	0%
Vol Thru, %	0%	100%	46%	56%	4%	0%	100%	95%
Vol Right, %	0%	0%	54%	22%	12%	0%	0%	5%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	8	54	59	9	51	5	40	21
LT Vol	8	0	0	2	43	5	0	0
Through Vol	0	54	27	5	2	0	40	20
RT Vol	0	0	32	2	6	0	0	1
Lane Flow Rate	11	75	82	12	71	7	56	29
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.016	0.1	0.101	0.018	0.107	0.01	0.075	0.039
Departure Headway (Hd)	5.315	4.814	4.433	5.104	5.42	5.373	4.871	4.838
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	676	747	811	703	664	668	738	742
Service Time	3.028	2.526	2.145	2.82	3.133	3.087	2.585	2.552
HCM Lane V/C Ratio	0.016	0.1	0.101	0.017	0.107	0.01	0.076	0.039
HCM Control Delay	8.1	8.1	7.6	7.9	8.8	8.1	8	7.7
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.3	0.3	0.1	0.4	0	0.2	0.1

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	130	398	351	21	8	39
Future Vol, veh/h	130	398	351	21	8	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	145	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	149	457	403	24	9	45

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	427	0	-	0	942	214
Stage 1	-	-	-	-	415	-
Stage 2	-	-	-	-	527	-
Critical Hdwy	4.1	-	-	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1143	-	-	-	265	797
Stage 1	-	-	-	-	641	-
Stage 2	-	-	-	-	562	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1143	-	-	-	231	797
Mov Cap-2 Maneuver	-	-	-	-	231	-
Stage 1	-	-	-	-	558	-
Stage 2	-	-	-	-	562	-

Approach	EB	WB	SB
HCM Control Delay, s	2.1	0	11.7
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1143	-	-	-	231	797
HCM Lane V/C Ratio	0.131	-	-	-	0.04	0.056
HCM Control Delay (s)	8.6	-	-	-	21.2	9.8
HCM Lane LOS	A	-	-	-	C	A
HCM 95th %tile Q(veh)	0.5	-	-	-	0.1	0.2

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	12	7	35	13	3	6	103	52	8	60	4
Future Vol, veh/h	1	12	7	35	13	3	6	103	52	8	60	4
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	15	9	45	17	4	8	132	67	10	77	5
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	7.9	8.8	8	7.9
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	5%	69%	100%	0%	0%
Vol Thru, %	0%	100%	40%	60%	25%	0%	100%	83%
Vol Right, %	0%	0%	60%	35%	6%	0%	0%	17%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	6	69	86	20	51	8	40	24
LT Vol	6	0	0	1	35	8	0	0
Through Vol	0	69	34	12	13	0	40	20
RT Vol	0	0	52	7	3	0	0	4
Lane Flow Rate	8	88	111	26	65	10	51	31
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.011	0.118	0.136	0.036	0.099	0.015	0.07	0.041
Departure Headway (Hd)	5.337	4.835	4.412	5.003	5.474	5.423	4.921	4.804
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	673	744	816	717	656	662	730	747
Service Time	3.049	2.547	2.124	2.722	3.192	3.139	2.637	2.52
HCM Lane V/C Ratio	0.012	0.118	0.136	0.036	0.099	0.015	0.07	0.041
HCM Control Delay	8.1	8.2	7.8	7.9	8.8	8.2	8	7.7
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.4	0.5	0.1	0.3	0	0.2	0.1

Intersection	
Intersection Delay, s/veh	6.8
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	0	161	0	0	102
Future Vol, veh/h	0	0	161	0	0	102
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	175	0	0	111
Number of Lanes	0	1	2	0	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	1	0
HCM Control Delay	0	6.8	6.7
HCM LOS	-	A	A

Lane	NBLn1	NBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%	0%
Vol Thru, %	100%	100%	100%	100%	100%
Vol Right, %	0%	0%	0%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	81	81	0	51	51
LT Vol	0	0	0	0	0
Through Vol	81	81	0	51	51
RT Vol	0	0	0	0	0
Lane Flow Rate	88	88	0	55	55
Geometry Grp	7	7	2	7	7
Degree of Util (X)	0.111	0.069	0	0.071	0.044
Departure Headway (Hd)	4.553	2.852	4.359	4.586	2.884
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	790	1260	0	784	1243
Service Time	2.262	0.561	2.43	2.299	0.597
HCM Lane V/C Ratio	0.111	0.07	0	0.07	0.044
HCM Control Delay	7.8	5.8	7.4	7.7	5.7
HCM Lane LOS	A	A	N	A	A
HCM 95th-tile Q	0.4	0.2	0	0.2	0.1

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	129	575	518	31	13	88
Future Vol, veh/h	129	575	518	31	13	88
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	145	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	81	81	81	81	81	81
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	159	710	640	38	16	109

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	678	0	-	0	1332	339
Stage 1	-	-	-	-	659	-
Stage 2	-	-	-	-	673	-
Critical Hdwy	4.1	-	-	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	923	-	-	-	148	663
Stage 1	-	-	-	-	482	-
Stage 2	-	-	-	-	474	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	923	-	-	-	123	663
Mov Cap-2 Maneuver	-	-	-	-	123	-
Stage 1	-	-	-	-	399	-
Stage 2	-	-	-	-	474	-

Approach	EB	WB	SB
HCM Control Delay, s	1.8	0	15
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	923	-	-	-	123	663
HCM Lane V/C Ratio	0.173	-	-	-	0.13	0.164
HCM Control Delay (s)	9.7	-	-	-	38.6	11.5
HCM Lane LOS	A	-	-	-	E	B
HCM 95th %tile Q(veh)	0.6	-	-	-	0.4	0.6

Intersection	
Intersection Delay, s/veh	10
Intersection LOS	A

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	588	549	0	0	0
Future Vol, veh/h	0	588	549	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	639	597	0	0	0
Number of Lanes	1	2	2	0	0	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	3	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	3
HCM Control Delay	9.5	10.5	0
HCM LOS	A	B	-

Lane	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	SBLn1
Vol Left, %	0%	0%	0%	0%	0%	0%
Vol Thru, %	100%	100%	100%	100%	100%	100%
Vol Right, %	0%	0%	0%	0%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	294	294	275	275	0
LT Vol	0	0	0	0	0	0
Through Vol	0	294	294	275	275	0
RT Vol	0	0	0	0	0	0
Lane Flow Rate	0	320	320	298	298	0
Geometry Grp	7	7	7	8	8	7
Degree of Util (X)	0	0.442	0.284	0.455	0.314	0
Departure Headway (Hd)	4.974	4.974	3.2	5.494	3.788	6.702
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	0	725	1099	656	952	0
Service Time	2.698	2.698	0.992	3.212	1.506	4.454
HCM Lane V/C Ratio	0	0.441	0.291	0.454	0.313	0
HCM Control Delay	7.7	11.6	7.3	12.7	8.2	9.5
HCM Lane LOS	N	B	A	B	A	N
HCM 95th-tile Q	0	2.3	1.2	2.4	1.4	0

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	72	0	0	51	0	0
Future Vol, veh/h	72	0	0	51	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	78	0	0	55	0	0
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.3	7.2	0
HCM LOS	A	A	-

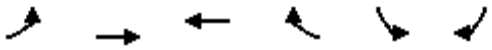
Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	0%	0%	0%
Vol Thru, %	100%	100%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	72	51
LT Vol	0	0	0
Through Vol	0	72	51
RT Vol	0	0	0
Lane Flow Rate	0	78	55
Geometry Grp	1	1	1
Degree of Util (X)	0	0.086	0.061
Departure Headway (Hd)	4.13	3.941	3.958
Convergence, Y/N	Yes	Yes	Yes
Cap	0	913	907
Service Time	2.184	1.951	1.972
HCM Lane V/C Ratio	0	0.085	0.061
HCM Control Delay	7.2	7.3	7.2
HCM Lane LOS	N	A	A
HCM 95th-tile Q	0	0.3	0.2

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	5	2	46	2	6	8	86	34	5	64	1
Future Vol, veh/h	2	5	2	46	2	6	8	86	34	5	64	1
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	7	3	64	3	8	11	119	47	7	89	1
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	8	8.9	7.9	8
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	22%	85%	100%	0%	0%
Vol Thru, %	0%	100%	46%	56%	4%	0%	100%	96%
Vol Right, %	0%	0%	54%	22%	11%	0%	0%	4%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	8	57	63	9	54	5	43	22
LT Vol	8	0	0	2	46	5	0	0
Through Vol	0	57	29	5	2	0	43	21
RT Vol	0	0	34	2	6	0	0	1
Lane Flow Rate	11	80	87	12	75	7	59	31
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.016	0.107	0.108	0.018	0.114	0.01	0.081	0.042
Departure Headway (Hd)	5.335	4.833	4.452	5.145	5.463	5.396	4.895	4.863
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	673	744	808	697	658	665	734	739
Service Time	3.048	2.546	2.165	2.865	3.18	3.111	2.609	2.578
HCM Lane V/C Ratio	0.016	0.108	0.108	0.017	0.114	0.011	0.08	0.042
HCM Control Delay	8.1	8.1	7.7	8	8.9	8.2	8	7.8
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.4	0.4	0.1	0.4	0	0.3	0.1



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	138	422	372	22	8	41
Future Volume (veh/h)	138	422	372	22	8	41
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1700	1800
Adj Flow Rate, veh/h	159	485	428	25	9	47
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	195	1838	1123	65	506	661
Arrive On Green	0.12	0.54	0.34	0.34	0.31	0.31
Sat Flow, veh/h	1619	3510	3374	191	1619	1525
Grp Volume(v), veh/h	159	485	222	231	9	47
Grp Sat Flow(s),veh/h/ln	1619	1710	1710	1766	1619	1525
Q Serve(g_s), s	7.7	6.1	7.9	7.9	0.3	1.4
Cycle Q Clear(g_c), s	7.7	6.1	7.9	7.9	0.3	1.4
Prop In Lane	1.00			0.11	1.00	1.00
Lane Grp Cap(c), veh/h	195	1838	585	604	506	661
V/C Ratio(X)	0.81	0.26	0.38	0.38	0.02	0.07
Avail Cap(c_a), veh/h	243	1838	585	604	506	661
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.3	10.0	19.9	19.9	19.0	13.3
Incr Delay (d2), s/veh	15.6	0.4	1.9	1.8	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	1.9	3.1	3.2	0.1	1.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	49.9	10.3	21.8	21.8	19.1	13.5
LnGrp LOS	D	B	C	C	B	B
Approach Vol, veh/h		644	453		56	
Approach Delay, s/veh		20.1	21.8		14.4	
Approach LOS		C	C		B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		49.0		31.0	15.6	33.4
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		45.0		27.0	14.0	27.0
Max Q Clear Time (g_c+I1), s		8.1		3.4	9.7	9.9
Green Ext Time (p_c), s		3.0		0.1	0.1	2.1

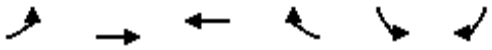
Intersection Summary	
HCM 6th Ctrl Delay	20.5
HCM 6th LOS	C

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	13	7	37	14	3	6	109	55	8	64	4
Future Vol, veh/h	1	13	7	37	14	3	6	109	55	8	64	4
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	17	9	47	18	4	8	140	71	10	82	5
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	8	8.9	8.1	8
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	5%	69%	100%	0%	0%
Vol Thru, %	0%	100%	40%	62%	26%	0%	100%	84%
Vol Right, %	0%	0%	60%	33%	6%	0%	0%	16%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	6	73	91	21	54	8	43	25
LT Vol	6	0	0	1	37	8	0	0
Through Vol	0	73	36	13	14	0	43	21
RT Vol	0	0	55	7	3	0	0	4
Lane Flow Rate	8	93	117	27	69	10	55	32
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.011	0.126	0.144	0.038	0.106	0.016	0.075	0.044
Departure Headway (Hd)	5.358	4.856	4.433	5.055	5.513	5.451	4.949	4.838
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	670	741	811	709	651	658	725	742
Service Time	3.074	2.572	2.148	2.78	3.236	3.169	2.667	2.556
HCM Lane V/C Ratio	0.012	0.126	0.144	0.038	0.106	0.015	0.076	0.043
HCM Control Delay	8.1	8.3	7.9	8	8.9	8.3	8.1	7.8
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.4	0.5	0.1	0.4	0	0.2	0.1



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	137	610	549	33	14	93
Future Volume (veh/h)	137	610	549	33	14	93
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1700	1800
Adj Flow Rate, veh/h	169	753	678	41	17	115
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	197	1838	1117	68	506	662
Arrive On Green	0.12	0.54	0.34	0.34	0.31	0.31
Sat Flow, veh/h	1619	3510	3366	198	1619	1525
Grp Volume(v), veh/h	169	753	354	365	17	115
Grp Sat Flow(s),veh/h/ln	1619	1710	1710	1764	1619	1525
Q Serve(g_s), s	8.2	10.4	13.7	13.8	0.6	3.7
Cycle Q Clear(g_c), s	8.2	10.4	13.7	13.8	0.6	3.7
Prop In Lane	1.00			0.11	1.00	1.00
Lane Grp Cap(c), veh/h	197	1838	583	602	506	662
V/C Ratio(X)	0.86	0.41	0.61	0.61	0.03	0.17
Avail Cap(c_a), veh/h	243	1838	583	602	506	662
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.5	11.0	21.9	21.9	19.1	13.9
Incr Delay (d2), s/veh	21.7	0.7	4.6	4.5	0.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	3.3	5.6	5.8	0.2	4.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	56.2	11.6	26.5	26.4	19.2	14.4
LnGrp LOS	E	B	C	C	B	B
Approach Vol, veh/h		922	719		132	
Approach Delay, s/veh		19.8	26.5		15.0	
Approach LOS		B	C		B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		49.0		31.0	15.7	33.3
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		45.0		27.0	14.0	27.0
Max Q Clear Time (g_c+I1), s		12.4		5.7	10.2	15.8
Green Ext Time (p_c), s		5.0		0.3	0.1	3.0

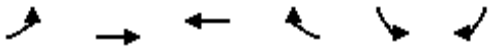
Intersection Summary		
HCM 6th Ctrl Delay		22.2
HCM 6th LOS		C

Intersection	
Intersection Delay, s/veh	8.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	6	3	46	3	6	12	119	36	6	80	8
Future Vol, veh/h	9	6	3	46	3	6	12	119	36	6	80	8
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	13	8	4	64	4	8	17	165	50	8	111	11
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	8.5	9.2	8.3	8.2
HCM LOS	A	A	A	A

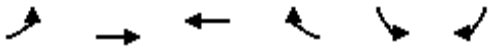
Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	50%	84%	100%	0%	0%
Vol Thru, %	0%	100%	52%	33%	5%	0%	100%	77%
Vol Right, %	0%	0%	48%	17%	11%	0%	0%	23%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	12	79	76	18	55	6	53	35
LT Vol	12	0	0	9	46	6	0	0
Through Vol	0	79	40	6	3	0	53	27
RT Vol	0	0	36	3	6	0	0	8
Lane Flow Rate	17	110	105	25	76	8	74	48
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.025	0.15	0.134	0.038	0.12	0.013	0.103	0.065
Departure Headway (Hd)	5.413	4.911	4.576	5.52	5.659	5.497	4.994	4.832
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	663	732	785	649	634	652	719	742
Service Time	3.133	2.631	2.296	3.255	3.39	3.219	2.717	2.555
HCM Lane V/C Ratio	0.026	0.15	0.134	0.039	0.12	0.012	0.103	0.065
HCM Control Delay	8.3	8.5	8	8.5	9.2	8.3	8.3	7.9
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.5	0.5	0.1	0.4	0	0.3	0.2



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	158	434	385	37	14	51
Future Volume (veh/h)	158	434	385	37	14	51
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1700	1800
Adj Flow Rate, veh/h	182	499	443	43	16	59
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	198	1838	1072	104	506	663
Arrive On Green	0.12	0.54	0.34	0.34	0.31	0.31
Sat Flow, veh/h	1619	3510	3241	305	1619	1525
Grp Volume(v), veh/h	182	499	240	246	16	59
Grp Sat Flow(s),veh/h/ln	1619	1710	1710	1745	1619	1525
Q Serve(g_s), s	8.9	6.3	8.6	8.7	0.5	1.8
Cycle Q Clear(g_c), s	8.9	6.3	8.6	8.7	0.5	1.8
Prop In Lane	1.00			0.17	1.00	1.00
Lane Grp Cap(c), veh/h	198	1838	582	594	506	663
V/C Ratio(X)	0.92	0.27	0.41	0.42	0.03	0.09
Avail Cap(c_a), veh/h	243	1838	582	594	506	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.7	10.0	20.3	20.3	19.1	13.3
Incr Delay (d2), s/veh	32.8	0.4	2.2	2.1	0.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	2.0	3.4	3.5	0.2	2.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	67.5	10.4	22.4	22.4	19.2	13.6
LnGrp LOS	E	B	C	C	B	B
Approach Vol, veh/h		681	486		75	
Approach Delay, s/veh		25.7	22.4		14.8	
Approach LOS		C	C		B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		49.0		31.0	15.8	33.2
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		45.0		27.0	14.0	27.0
Max Q Clear Time (g_c+I1), s		8.3		3.8	10.9	10.7
Green Ext Time (p_c), s		3.1		0.2	0.1	2.2

Intersection Summary	
HCM 6th Ctrl Delay	23.7
HCM 6th LOS	C



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	158	434	385	37	14	51
Future Volume (vph)	158	434	385	37	14	51
Ideal Flow (vphpl)	1700	1800	1800	1800	1700	1800
Total Lost time (s)	6.0	6.0	6.0		6.0	6.0
Lane Util. Factor	1.00	0.95	0.95		1.00	1.00
Frt	1.00	1.00	0.99		1.00	0.85
Flt Protected	0.95	1.00	1.00		0.95	1.00
Satd. Flow (prot)	1615	3420	3375		1615	1530
Flt Permitted	0.95	1.00	1.00		0.95	1.00
Satd. Flow (perm)	1615	3420	3375		1615	1530
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	182	499	443	43	16	59
RTOR Reduction (vph)	0	0	9	0	0	32
Lane Group Flow (vph)	182	499	477	0	16	27
Turn Type	Prot	NA	NA		Prot	pm+ov
Protected Phases	5	2	6		4	5
Permitted Phases						4
Actuated Green, G (s)	13.3	45.0	27.7		27.0	40.3
Effective Green, g (s)	11.3	43.0	25.7		25.0	36.3
Actuated g/C Ratio	0.14	0.54	0.32		0.31	0.45
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0
Lane Grp Cap (vph)	228	1838	1084		504	808
v/s Ratio Prot	c0.11	0.15	c0.14		0.01	c0.00
v/s Ratio Perm						0.01
v/c Ratio	0.80	0.27	0.44		0.03	0.03
Uniform Delay, d1	33.2	10.0	21.5		19.1	12.1
Progression Factor	1.00	1.00	1.00		1.00	1.00
Incremental Delay, d2	17.4	0.4	1.3		0.1	0.0
Delay (s)	50.7	10.4	22.8		19.2	12.1
Level of Service	D	B	C		B	B
Approach Delay (s)		21.2	22.8		13.6	
Approach LOS		C	C		B	

Intersection Summary			
HCM 2000 Control Delay	21.3	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.34		
Actuated Cycle Length (s)	80.0	Sum of lost time (s)	18.0
Intersection Capacity Utilization	47.5%	ICU Level of Service	A
Analysis Period (min)	15		

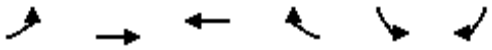
c Critical Lane Group

Intersection	
Intersection Delay, s/veh	8.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	8	14	12	39	15	4	7	129	56	8	98	10
Future Vol, veh/h	8	14	12	39	15	4	7	129	56	8	98	10
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	10	18	15	50	19	5	9	165	72	10	126	13
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	8.4	9.2	8.4	8.3
HCM LOS	A	A	A	A

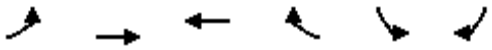
Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	24%	67%	100%	0%	0%
Vol Thru, %	0%	100%	43%	41%	26%	0%	100%	77%
Vol Right, %	0%	0%	57%	35%	7%	0%	0%	23%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	7	86	99	34	58	8	65	43
LT Vol	7	0	0	8	39	8	0	0
Through Vol	0	86	43	14	15	0	65	33
RT Vol	0	0	56	12	4	0	0	10
Lane Flow Rate	9	110	127	44	74	10	84	55
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.014	0.152	0.161	0.064	0.118	0.016	0.118	0.074
Departure Headway (Hd)	5.476	4.974	4.576	5.325	5.696	5.555	5.053	4.888
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	655	722	784	672	629	645	709	733
Service Time	3.201	2.699	2.301	3.064	3.432	3.283	2.781	2.616
HCM Lane V/C Ratio	0.014	0.152	0.162	0.065	0.118	0.016	0.118	0.075
HCM Control Delay	8.3	8.6	8.2	8.4	9.2	8.4	8.5	8
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.5	0.6	0.2	0.4	0	0.4	0.2



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	149	629	565	42	33	115
Future Volume (veh/h)	149	629	565	42	33	115
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1700	1800
Adj Flow Rate, veh/h	184	777	698	52	41	142
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	198	1838	1097	82	506	664
Arrive On Green	0.12	0.54	0.34	0.34	0.31	0.31
Sat Flow, veh/h	1619	3510	3317	240	1619	1525
Grp Volume(v), veh/h	184	777	370	380	41	142
Grp Sat Flow(s),veh/h/ln	1619	1710	1710	1757	1619	1525
Q Serve(g_s), s	9.0	10.9	14.6	14.6	1.4	4.6
Cycle Q Clear(g_c), s	9.0	10.9	14.6	14.6	1.4	4.6
Prop In Lane	1.00			0.14	1.00	1.00
Lane Grp Cap(c), veh/h	198	1838	581	597	506	664
V/C Ratio(X)	0.93	0.42	0.64	0.64	0.08	0.21
Avail Cap(c_a), veh/h	243	1838	581	597	506	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.8	11.1	22.2	22.2	19.4	14.1
Incr Delay (d2), s/veh	34.9	0.7	5.2	5.1	0.3	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	3.4	6.0	6.1	0.5	5.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	69.6	11.8	27.5	27.4	19.7	14.8
LnGrp LOS	E	B	C	C	B	B
Approach Vol, veh/h		961	750		183	
Approach Delay, s/veh		22.9	27.4		15.9	
Approach LOS		C	C		B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		49.0		31.0	15.8	33.2
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		45.0		27.0	14.0	27.0
Max Q Clear Time (g_c+I1), s		12.9		6.6	11.0	16.6
Green Ext Time (p_c), s		5.2		0.5	0.1	3.0

Intersection Summary		
HCM 6th Ctrl Delay		24.0
HCM 6th LOS		C



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	149	629	565	42	33	115
Future Volume (vph)	149	629	565	42	33	115
Ideal Flow (vphpl)	1700	1800	1800	1800	1700	1800
Total Lost time (s)	6.0	6.0	6.0		6.0	6.0
Lane Util. Factor	1.00	0.95	0.95		1.00	1.00
Frt	1.00	1.00	0.99		1.00	0.85
Flt Protected	0.95	1.00	1.00		0.95	1.00
Satd. Flow (prot)	1615	3420	3384		1615	1530
Flt Permitted	0.95	1.00	1.00		0.95	1.00
Satd. Flow (perm)	1615	3420	3384		1615	1530
Peak-hour factor, PHF	0.81	0.81	0.81	0.81	0.81	0.81
Adj. Flow (vph)	184	777	698	52	41	142
RTOR Reduction (vph)	0	0	7	0	0	30
Lane Group Flow (vph)	184	777	743	0	41	112
Turn Type	Prot	NA	NA		Prot	pm+ov
Protected Phases	5	2	6		4	5
Permitted Phases						4
Actuated Green, G (s)	13.4	45.0	27.6		27.0	40.4
Effective Green, g (s)	11.4	43.0	25.6		25.0	36.4
Actuated g/C Ratio	0.14	0.54	0.32		0.31	0.45
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0
Lane Grp Cap (vph)	230	1838	1082		504	810
v/s Ratio Prot	c0.11	0.23	c0.22		0.03	c0.02
v/s Ratio Perm						0.05
v/c Ratio	0.80	0.42	0.69		0.08	0.14
Uniform Delay, d1	33.2	11.1	23.7		19.4	12.7
Progression Factor	1.00	1.00	1.00		1.00	1.00
Incremental Delay, d2	17.8	0.7	3.6		0.3	0.1
Delay (s)	51.0	11.8	27.3		19.7	12.8
Level of Service	D	B	C		B	B
Approach Delay (s)		19.3	27.3		14.3	
Approach LOS		B	C		B	

Intersection Summary			
HCM 2000 Control Delay	22.0	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	80.0	Sum of lost time (s)	18.0
Intersection Capacity Utilization	52.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Intersection	
Intersection Delay, s/veh	8.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	8	3	41	3	6	12	119	33	9	80	8
Future Vol, veh/h	9	8	3	41	3	6	12	119	33	9	80	8
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	13	11	4	57	4	8	17	165	46	13	111	11
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	8.5	9.1	8.3	8.2
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	45%	82%	100%	0%	0%
Vol Thru, %	0%	100%	55%	40%	6%	0%	100%	77%
Vol Right, %	0%	0%	45%	15%	12%	0%	0%	23%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	12	79	73	20	50	9	53	35
LT Vol	12	0	0	9	41	9	0	0
Through Vol	0	79	40	8	3	0	53	27
RT Vol	0	0	33	3	6	0	0	8
Lane Flow Rate	17	110	101	28	69	12	74	48
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.025	0.15	0.128	0.042	0.109	0.019	0.102	0.064
Departure Headway (Hd)	5.402	4.9	4.581	5.498	5.648	5.478	4.975	4.813
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	664	734	784	652	635	655	721	745
Service Time	3.121	2.619	2.299	3.228	3.374	3.2	2.697	2.535
HCM Lane V/C Ratio	0.026	0.15	0.129	0.043	0.109	0.018	0.103	0.064
HCM Control Delay	8.3	8.5	8	8.5	9.1	8.3	8.3	7.9
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.5	0.4	0.1	0.4	0.1	0.3	0.2

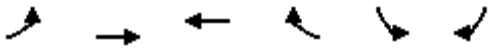
Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	0	164	2	0	124
Future Vol, veh/h	0	0	164	2	0	124
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	178	2	0	135

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	90	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	956	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	956	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	0	-
HCM Lane LOS	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	157	447	395	37	14	45
Future Volume (veh/h)	157	447	395	37	14	45
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1700	1800
Adj Flow Rate, veh/h	180	514	454	43	16	52
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	198	1838	1075	101	506	663
Arrive On Green	0.12	0.54	0.34	0.34	0.31	0.31
Sat Flow, veh/h	1619	3510	3248	298	1619	1525
Grp Volume(v), veh/h	180	514	245	252	16	52
Grp Sat Flow(s),veh/h/ln	1619	1710	1710	1746	1619	1525
Q Serve(g_s), s	8.8	6.5	8.8	8.9	0.5	1.6
Cycle Q Clear(g_c), s	8.8	6.5	8.8	8.9	0.5	1.6
Prop In Lane	1.00			0.17	1.00	1.00
Lane Grp Cap(c), veh/h	198	1838	582	594	506	663
V/C Ratio(X)	0.91	0.28	0.42	0.42	0.03	0.08
Avail Cap(c_a), veh/h	223	1838	582	594	506	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.7	10.1	20.3	20.3	19.1	13.2
Incr Delay (d2), s/veh	34.6	0.4	2.2	2.2	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	2.1	3.5	3.6	0.2	1.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	69.2	10.4	22.6	22.6	19.2	13.5
LnGrp LOS	E	B	C	C	B	B
Approach Vol, veh/h		694	497		68	
Approach Delay, s/veh		25.7	22.6		14.8	
Approach LOS		C	C		B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		49.0		31.0	15.8	33.2
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		45.0		27.0	13.0	28.0
Max Q Clear Time (g_c+I1), s		8.5		3.6	10.8	10.9
Green Ext Time (p_c), s		3.2		0.2	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	23.9
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	13	450	424	3	0	10
Future Vol, veh/h	13	450	424	3	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	489	461	3	0	11

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	464	0	-	0	-	232
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	4.1	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	2.2	-	-	-	-	3.3
Pot Cap-1 Maneuver	1108	-	-	-	0	776
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1108	-	-	-	-	776
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0.2	0	9.7
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1108	-	-	-	776
HCM Lane V/C Ratio	0.013	-	-	-	0.014
HCM Control Delay (s)	8.3	-	-	-	9.7
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

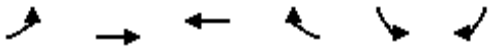
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	45	2	1	56	4	0
Future Vol, veh/h	45	2	1	56	4	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	49	2	1	61	4	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	51	0	113	50
Stage 1	-	-	-	-	50	-
Stage 2	-	-	-	-	63	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1568	-	888	1024
Stage 1	-	-	-	-	978	-
Stage 2	-	-	-	-	965	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1568	-	887	1024
Mov Cap-2 Maneuver	-	-	-	-	887	-
Stage 1	-	-	-	-	978	-
Stage 2	-	-	-	-	964	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	9.1
HCM LOS			A

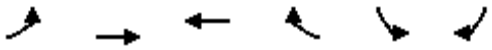
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	887	-	-	1568	-
HCM Lane V/C Ratio	0.005	-	-	0.001	-
HCM Control Delay (s)	9.1	-	-	7.3	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	157	447	395	37	14	45
Future Volume (vph)	157	447	395	37	14	45
Ideal Flow (vphpl)	1700	1800	1800	1800	1700	1800
Total Lost time (s)	6.0	6.0	6.0		6.0	6.0
Lane Util. Factor	1.00	0.95	0.95		1.00	1.00
Frt	1.00	1.00	0.99		1.00	0.85
Flt Protected	0.95	1.00	1.00		0.95	1.00
Satd. Flow (prot)	1615	3420	3376		1615	1530
Flt Permitted	0.95	1.00	1.00		0.95	1.00
Satd. Flow (perm)	1615	3420	3376		1615	1530
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	180	514	454	43	16	52
RTOR Reduction (vph)	0	0	9	0	0	29
Lane Group Flow (vph)	180	514	488	0	16	23
Turn Type	Prot	NA	NA		Prot	pm+ov
Protected Phases	5	2	6		4	5
Permitted Phases						4
Actuated Green, G (s)	12.8	45.0	28.2		27.0	39.8
Effective Green, g (s)	10.8	43.0	26.2		25.0	35.8
Actuated g/C Ratio	0.14	0.54	0.33		0.31	0.45
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0
Lane Grp Cap (vph)	218	1838	1105		504	799
v/s Ratio Prot	c0.11	0.15	c0.14		0.01	c0.00
v/s Ratio Perm						0.01
v/c Ratio	0.83	0.28	0.44		0.03	0.03
Uniform Delay, d1	33.7	10.1	21.2		19.1	12.4
Progression Factor	1.00	1.00	1.00		1.00	1.00
Incremental Delay, d2	21.8	0.4	1.3		0.1	0.0
Delay (s)	55.5	10.4	22.4		19.2	12.4
Level of Service	E	B	C		B	B
Approach Delay (s)		22.1	22.4		14.0	
Approach LOS		C	C		B	

Intersection Summary			
HCM 2000 Control Delay	21.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.34		
Actuated Cycle Length (s)	80.0	Sum of lost time (s)	18.0
Intersection Capacity Utilization	47.8%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	145	637	581	42	37	104
Future Volume (vph)	145	637	581	42	37	104
Ideal Flow (vphpl)	1700	1800	1800	1800	1700	1800
Total Lost time (s)	6.0	6.0	6.0		6.0	6.0
Lane Util. Factor	1.00	0.95	0.95		1.00	1.00
Frt	1.00	1.00	0.99		1.00	0.85
Flt Protected	0.95	1.00	1.00		0.95	1.00
Satd. Flow (prot)	1615	3420	3385		1615	1530
Flt Permitted	0.95	1.00	1.00		0.95	1.00
Satd. Flow (perm)	1615	3420	3385		1615	1530
Peak-hour factor, PHF	0.81	0.81	0.81	0.81	0.81	0.81
Adj. Flow (vph)	179	786	717	52	46	128
RTOR Reduction (vph)	0	0	7	0	0	36
Lane Group Flow (vph)	179	786	762	0	46	92
Turn Type	Prot	NA	NA		Prot	pm+ov
Protected Phases	5	2	6		4	5
Permitted Phases						4
Actuated Green, G (s)	12.0	45.0	29.0		27.0	39.0
Effective Green, g (s)	10.0	43.0	27.0		25.0	35.0
Actuated g/C Ratio	0.12	0.54	0.34		0.31	0.44
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0
Lane Grp Cap (vph)	201	1838	1142		504	784
v/s Ratio Prot	c0.11	0.23	c0.23		0.03	c0.01
v/s Ratio Perm						0.05
v/c Ratio	0.89	0.43	0.67		0.09	0.12
Uniform Delay, d1	34.5	11.1	22.7		19.5	13.3
Progression Factor	1.00	1.00	1.00		1.00	1.00
Incremental Delay, d2	35.1	0.7	3.1		0.4	0.1
Delay (s)	69.5	11.8	25.8		19.8	13.4
Level of Service	E	B	C		B	B
Approach Delay (s)		22.5	25.8		15.1	
Approach LOS		C	C		B	

Intersection Summary			
HCM 2000 Control Delay	23.2	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	80.0	Sum of lost time (s)	18.0
Intersection Capacity Utilization	53.4%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Intersection	
Intersection Delay, s/veh	8.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	8	15	12	32	16	7	8	130	51	9	98	10
Future Vol, veh/h	8	15	12	32	16	7	8	130	51	9	98	10
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	10	19	15	41	21	9	10	167	65	12	126	13
Number of Lanes	0	1	0	0	1	0	1	2	0	1	2	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	3	3
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	3	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	3	3	1	1
HCM Control Delay	8.4	9	8.3	8.3
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	NBLn3	EBLn1	WBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	23%	58%	100%	0%	0%
Vol Thru, %	0%	100%	46%	43%	29%	0%	100%	77%
Vol Right, %	0%	0%	54%	34%	13%	0%	0%	23%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	8	87	94	35	55	9	65	43
LT Vol	8	0	0	8	32	9	0	0
Through Vol	0	87	43	15	16	0	65	33
RT Vol	0	0	51	12	7	0	0	10
Lane Flow Rate	10	111	121	45	71	12	84	55
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.016	0.153	0.154	0.066	0.11	0.018	0.117	0.074
Departure Headway (Hd)	5.465	4.962	4.582	5.318	5.608	5.539	5.037	4.872
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	656	723	784	673	639	647	712	736
Service Time	3.189	2.687	2.306	3.055	3.342	3.267	2.765	2.6
HCM Lane V/C Ratio	0.015	0.154	0.154	0.067	0.111	0.019	0.118	0.075
HCM Control Delay	8.3	8.6	8.1	8.4	9	8.4	8.4	8
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.5	0.5	0.2	0.4	0.1	0.4	0.2

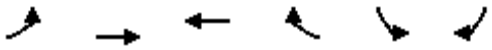
Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	3	188	1	0	142
Future Vol, veh/h	0	3	188	1	0	142
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	3	204	1	0	154

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	103	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	938	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	938	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	8.9	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	938	-
HCM Lane V/C Ratio	-	-	0.003	-
HCM Control Delay (s)	-	-	8.9	-
HCM Lane LOS	-	-	A	-
HCM 95th %tile Q(veh)	-	-	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	145	637	581	42	37	104
Future Volume (veh/h)	145	637	581	42	37	104
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1800	1700	1800
Adj Flow Rate, veh/h	179	786	717	52	46	128
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	198	1838	1100	80	506	663
Arrive On Green	0.12	0.54	0.34	0.34	0.31	0.31
Sat Flow, veh/h	1619	3510	3323	234	1619	1525
Grp Volume(v), veh/h	179	786	379	390	46	128
Grp Sat Flow(s),veh/h/ln	1619	1710	1710	1758	1619	1525
Q Serve(g_s), s	8.7	11.0	15.0	15.0	1.6	4.1
Cycle Q Clear(g_c), s	8.7	11.0	15.0	15.0	1.6	4.1
Prop In Lane	1.00			0.13	1.00	1.00
Lane Grp Cap(c), veh/h	198	1838	582	598	506	663
V/C Ratio(X)	0.90	0.43	0.65	0.65	0.09	0.19
Avail Cap(c_a), veh/h	202	1838	582	598	506	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.7	11.1	22.4	22.4	19.5	14.0
Incr Delay (d2), s/veh	37.7	0.7	5.6	5.4	0.4	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	3.5	6.2	6.4	0.6	4.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	72.3	11.8	27.9	27.8	19.8	14.6
LnGrp LOS	E	B	C	C	B	B
Approach Vol, veh/h		965	769		174	
Approach Delay, s/veh		23.1	27.9		16.0	
Approach LOS		C	C		B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		49.0		31.0	15.8	33.2
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		45.0		27.0	12.0	29.0
Max Q Clear Time (g_c+I1), s		13.0		6.1	10.7	17.0
Green Ext Time (p_c), s		5.3		0.5	0.1	3.3

Intersection Summary	
HCM 6th Ctrl Delay	24.4
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	8	664	606	1	0	16
Future Vol, veh/h	8	664	606	1	0	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	9	722	659	1	0	17

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	660	0	-	0	-	330
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	4.1	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	2.2	-	-	-	-	3.3
Pot Cap-1 Maneuver	938	-	-	-	0	672
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %			-	-	-	
Mov Cap-1 Maneuver	938	-	-	-	-	672
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	10.5
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	938	-	-	-	672
HCM Lane V/C Ratio	0.009	-	-	-	0.026
HCM Control Delay (s)	8.9	-	-	-	10.5
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Int Delay, s/veh	0.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	78	6	0	54	10	1
Future Vol, veh/h	78	6	0	54	10	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	85	7	0	59	11	1

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	92	0	148	89
Stage 1	-	-	-	-	89	-
Stage 2	-	-	-	-	59	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1515	-	849	975
Stage 1	-	-	-	-	940	-
Stage 2	-	-	-	-	969	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1515	-	849	975
Mov Cap-2 Maneuver	-	-	-	-	849	-
Stage 1	-	-	-	-	940	-
Stage 2	-	-	-	-	969	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	859	-	-	1515	-
HCM Lane V/C Ratio	0.014	-	-	-	-
HCM Control Delay (s)	9.3	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

APPENDIX E:
SBCTA LOW VMT AREA SCREENING TOOL



FIGURE E-1

Gateway South 9 Warehouse
SBCTA Low VMT Area Screening Tool

translutions
the transportation solutions company...