BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

STATE OF CALIFORNIA

In the Matter of the Application of SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) for a Permit to Construct Electrical Facilities With Voltages Between 50 kV and 200 kV: Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project	Application No. _____

PROPONENT'S ENVIRONMENTAL ASSESSMENT

CIRCLE CITY SUBSTATION AND MIRA LOMA-JEFFERSON 66 kV SUBTRANSMISSION LINE PROJECT

VOLUME 5 of 6

(Chapters 4.6 through 4.11)

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4.6 Geology and Soils

This section describes the geology and soils in the area of the Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project (Proposed Project), as well as the potential impacts and alternatives. Based on the Proposed Project design, which would include the appropriate recommendations provided by site-specific geotechnical assessments, the following impacts would be less than significant:

- seismic-related soil failure and substation equipment damage; and
- construction and operation-related topsoil disturbance, erosion, landslides, and sedimentation.

4.6.1 Environmental Setting

4.6.1.1 Geologic Setting

The Proposed Project site is situated in the central portion of the Peninsular Ranges Geomorphic Province of Southern California. The Peninsular Ranges are bounded by the Salton Trough to the east, the Los Angeles Basin to the north, and the Pacific Ocean to the west. The Peninsular Ranges are characterized by northwest-trending mountains and intervening basins parallel to the major faults and folds in the region. In general, the Peninsular Ranges are underlain by Jurassic-age metavolcanic and metasedimentary rocks and by Cretaceous-age igneous rocks of the Southern California batholith. The Proposed Project area is primarily underlain by young alluvial channel deposits of the Temescal Wash and Santa Ana River Wash. These deposits generally consist of sandy gravel with some silt. The gravel is derived from erosion of granitic, volcanic, and metamorphic rocks from the surrounding mountains.

4.6.1.2 Faults, Seismicity, and Related Hazards

Faults

Active faults within the Peninsular Ranges Geomorphic Province include the San Jacinto and San Andreas faults to the north of the Proposed Project area, and the Whittier-Chino-Elsinore fault system to the west. Figure 4.6-1: Earthquake Hazards Map shows the active faults within 50 miles of the Proposed Project.[1] These fault systems are primarily right lateral strike-slip faults. There are no mapped active faults that cross the Proposed Project area. The Chino-Central Avenue fault, which is part of the Elsinore Fault Zone, is within approximately 53 feet of the Proposed Project. According to the United States (U.S.) Geological Survey (USGS), the fault is not considered active.

Table 4.6-1: Active Faults within 50 Miles lists active earthquake faults, estimated earthquake magnitude, and slip rates—measured in millimeters per year (mm/yr)—for the faults considered most likely to subject the Proposed Project to ground shaking.

[1] The distance to these faults was measured from the proposed Source Line Route and the Mira Loma-Jefferson 66 kilovolt (kV) Subtransmission Line, and is shown in Table 4.6-1: Active Faults within 50 Miles.

Table 4.6-1: Active Faults within 50 Miles

Fault	Approximate Distance to the Proposed Project (miles)	Fault Length (miles)	Maximum Magnitude Events	
			Maximum Estimated Earthquake Moment Magnitude (M_w)	Slip Rate (mm/yr)
Coronado Bank Fault Zone, Coronado Bank-Palos Verdes section	42.87	8.90	7.6	1.0-4.0
Elsinore Fault Zone, Chino section	2.45	47.96	6.8	2.0-7.0
Elsinore Fault Zone, Glen Ivy Section	3.08	22.37	6.8	3.0-7.0
Elsinore Fault Zone, Temecula Section	20.03	26.72	6.8	3.0-7.0
Elsinore Fault Zone, Whittier Section	7.05	23.61	6.8	1.5-3.5
Helendale-South Lockhart Fault Zone, Helendale section	46.13	17.49	7.3	0.4-1.0
Hollywood fault	41.54	6.32	6.4	0.5-1.5
Newport-Inglewood-Rose Canyon Fault Zone	31.39	23.61	7.1	0.5-1.5
North Frontal thrust system, western section	32.87	25.47	7.2	0.3-0.8
Palos Verdes Fault Zone, San Pedro shelf section	38.43	3.20	7.3	1.0-4.0
Pinto Mountain Fault Zone	48.81	2.60	7.2	2.0-4.5
Raymond fault	26.26	18.59	6.5	1.0-2.5
San Andreas Fault Zone, Mojave section	27.85	31.97	7.4	7.0-37.0
San Andreas Fault Zone, San Bernardino Mountains section	19.01	92.37	7.5	6.0-30.0
San Jacinto Fault Zone, Anza section	41.19	29.62	7.2	6.0-18.0
San Jacinto Fault Zone, San Bernardino section	16.76	31.94	6.7	6-18
San Jacinto Fault Zone, San Jacinto Valley section	14.72	48.33	6.9	6-18
Santa Monica fault	46.68	4.22	6.6	0.5-1.5
Sierra Madre Fault Zone, San Fernando section	44.56	18.27	6.7	1.0-3.0
Sierra Madre Fault Zone, Sierra Madre B section	41.68	0.89	7.2	1.0-3.0

Sources: California Department of Conservation (DOC), 2014a; DOC, 2014b; USGS, 2012; Riverside County, 2012

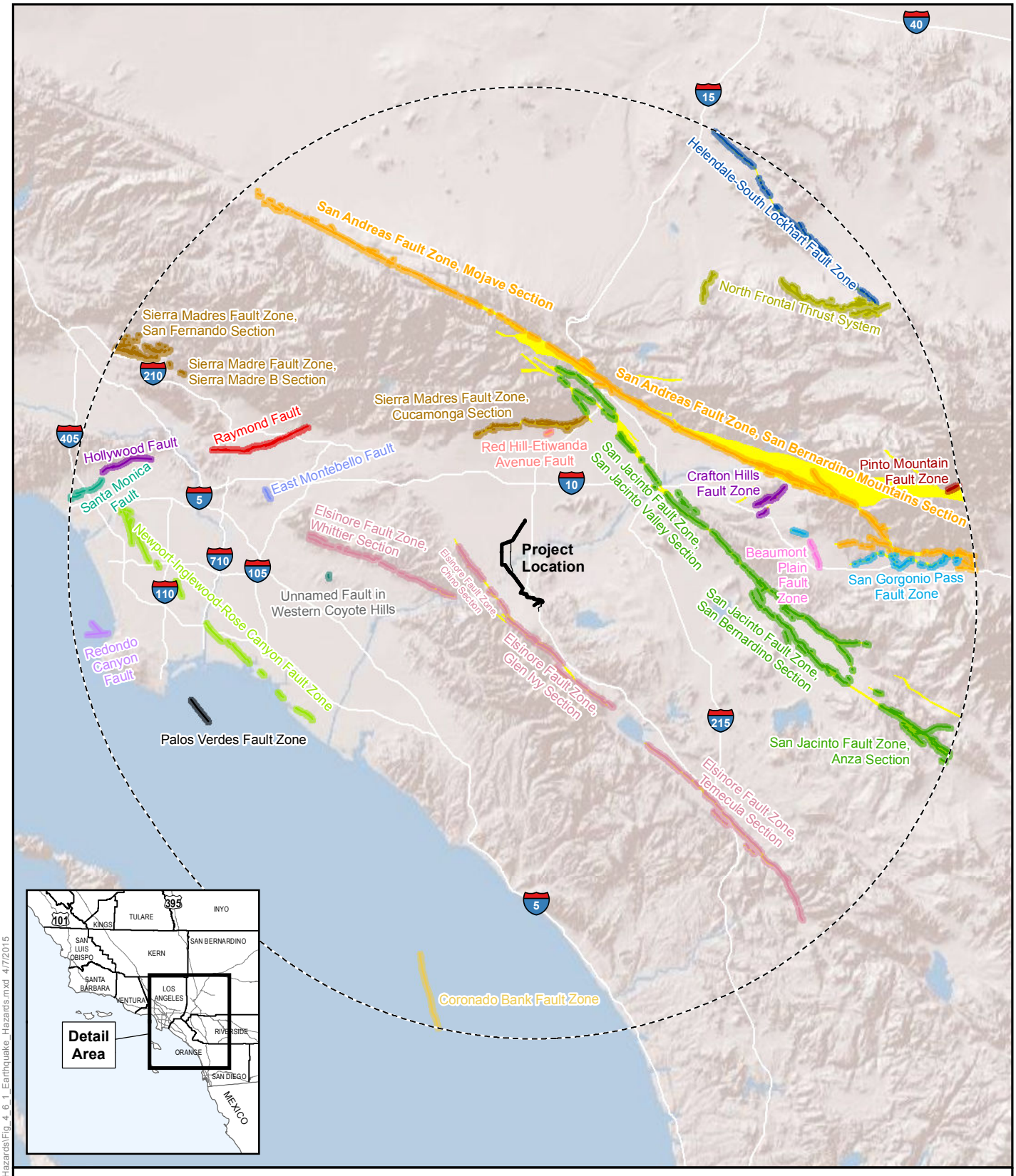

Figure 4.6-1: Earthquake Hazards Map

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

- Proposed Project
- Alternative Segment
- Earthquake Fault
- Alquist-Priolo Fault Zone
- 50-Mile Project Area Buffer

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Sources: Insignia, 2015; Riverside County, 2012; SCE, 2015; USGS, 2006

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Fault Rupture

The Proposed Project area is located in seismically active Southern California, where numerous earthquakes have occurred throughout the region. Based on a review of the Alquist-Priolo Earthquake Fault Zone maps, the Proposed Project would not be located within an Alquist-Priolo Fault Zone. The Elsinore Fault Zone, Chino section, is located approximately 2.45 miles west of the Proposed Project area and is the nearest mapped Alquist-Priolo fault. Figure 4.6-1: Earthquake Hazards Map shows active faults within the vicinity of the Proposed Project.

Strong Ground Motion

An earthquake is commonly described by the amount of energy released, which has traditionally been quantified using the Richter scale. However, seismologists have recently begun using a moment magnitude (M_w) scale because it provides a more accurate measurement of a major earthquake size. The M_w and Richter scales are almost identical for earthquakes measuring less than magnitude 7.0. Readings on the M_w scale are slightly greater than a corresponding Richter scale reading for earthquakes greater than magnitude 7.0. The maximum magnitude earthquake is defined as the maximum earthquake that appears capable of occurring under the presently known tectonic framework. The Elsinore Fault Zone is capable of generating an estimated 6.8 M_w earthquake. The maximum estimated earthquake M_w within 50 miles of the Proposed Project is approximately 7.6 M_w.

Strong ground motion or intensity of seismic shaking during an earthquake is dependent on the distance from the epicenter of the earthquake, the magnitude of the earthquake, and the geologic conditions underlying and surrounding the area. The intensity of ground motions induced by earthquakes can be described using peak site accelerations, represented as a fraction of the acceleration of gravity (g). Table 4.6-2: Earthquake Intensity Scale presents the average peak accelerations associated with each intensity value. Using the Sadigh and Egan ground motion model, the maximum peak site acceleration for the Proposed Project area is estimated to be approximately 0.178g.[2] The California Geological Survey (CGS) Probabilistic Seismic Hazard Assessment (PSHA) maps were also used to estimate peak ground accelerations within the vicinity of the Proposed Project. PSHA maps indicate that there is a 10-percent probability of exceeding a peak site acceleration of 0.54g in a 50-year period using a magnitude weighting factor based on a magnitude-7.5 earthquake.[3]

[2] This estimate is derived using the 1998 Sadigh and Egan ground motion model, which presents acceleration attenuation relationships. The value calculates the relationship between the distance from the fault to the Proposed Project, the M_w, fault type, and soil conditions. The data presented is only intended for comparison purposes for the California Environmental Quality Act (CEQA), and is not for design purposes.

[3] This estimate is derived from the CGS Seismic Shaking Hazard Model. The value represents the ground motion as a fraction of g based on Proposed Project latitude/longitude coordinates and soil conditions.

Table 4.6-2: Earthquake Intensity Scale

Intensity Value	Intensity Description	Average Peak Acceleration Range
I	Not felt except by very few people under especially favorable circumstances.	<0.0017g
II	Felt only by a few people at rest, especially on upper floors of buildings. Delicately suspended objects may swing.	0.0017–0.014g
III	Felt noticeably indoors, especially on upper floors of buildings, but many people do not recognize it as an earthquake. Standing motor cars may rock slightly, vibrations similar to a passing truck.	
IV	During the day, felt indoors by many, outdoors by few. Some awakened at night. Dishes, windows, doors disturbed; walls make cracking sound. Sensation is like a heavy truck striking building. Standing motor cars rock noticeably.	0.014–0.039g
V	Felt by nearly everyone, and many awakened. Some dishes and windows broken; a few instances of cracked plaster; unstable objects overturned. Disturbances of trees and poles may be noticed. Pendulum clocks may stop.	0.039–0.092g
VI	Felt by all; many frightened and run outdoors. Some heavy furniture moves, plaster falls, or chimneys are damaged. Damage slight.	0.092–0.18g
VII	Everybody runs outdoors. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable in poorly built or badly designed structures; some chimneys broken. Noticed by people driving motor cars.	0.18–0.34g
VIII	Damage slight in specially designed structures; considerable in ordinary substantial buildings, with partial collapse; damage great in poorly built structures. Panel walls thrown out of frame structures. Chimneys, factory stacks, columns, monuments, and walls fall. Heavy furniture overturned. Sand and mud ejected in small amounts. Changes in well water. People driving motor cars disturbed.	0.34–0.65g
IX	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb; great in substantial buildings, with partial collapse. Buildings shifted off foundations. Ground cracked conspicuously. Underground pipes broken.	0.65–1.24g
X	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations; ground badly cracked. Rails bent. Landslides considerable from riverbanks and steep slopes. Shifted sand and mud. Water splashed or slopped over banks.	>1.24g
XI	Few, if any, masonry structures remain standing. Bridges destroyed. Broad fissures in ground. Underground pipelines completely out of service. Earth slumps and land slips in soft ground. Rails bent greatly.	>1.24g
XII	Practically all works of construction are damaged greatly or destroyed. Waves seen on ground surface. Lines of sight and level are distorted. Objects are thrown upward into the air.	

Sources: Bolt, 1988; Wald, 1999

4.6.1.3 Soils

The Proposed Project area is generally located within an alluvial fan comprised primarily of loams and sandy loams derived from metasedimentary rock and granite. The proposed Circle City Substation site is within the CpA map unit (Cortina gravelly sandy loam) and CoA map unit (Cortina sandy loam) on slopes up to 2 percent. As provided in Table 4.6-3: Soil Units Crossed by the Proposed Project, the depth to bedrock is expected to be greater than 80 inches and the soils are expected to be somewhat excessively drained. The erosion potential at the site is slight. The proposed Source Line Route, Mira Loma-Jefferson 66 kV Subtransmission Line, and other Proposed Project facilities are located on several different soil types with varying degrees of disturbance. Figure 4.6-2: Soils Map (Source Line Route) depicts the soil map units that would be crossed by the proposed Source Line Route. Figure 4.6-3: Soils Map (Subtransmission Line) depicts the soil map units that would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line. In general, the proposed Source Line Route would primarily be located on alluvium derived from metasedimentary rock. The Mira Loma-Jefferson 66 kV Subtransmission Line would primarily be located on alluvium derived from granite. Figure 4.6-2: Soils Map (Source Line Route) and Figure 4.6-3: Soils Map (Subtransmission Line) provide a summary of the soil types and general soil characteristics within each map unit.

4.6.1.4 Soil Stability

Landslides

Landslides occur when masses of rock, earth, or debris move down a slope, including rock falls, deep failure of slopes, and shallow debris flows. The actuators of landslides can be both natural events (e.g., earthquakes, rainfall, and erosion) and human activities. Those induced by man are most commonly related to large grading activities that can potentially cause new slides or reactivate old ones when compacted fill is placed on potentially unstable slopes. Excavation operations can also contribute to landslides when lateral support is removed near the base of unstable hillside areas. Conditions to be considered in regard to slope instability include slope inclination, characteristics of the soil materials, the presence of groundwater, and the degree of soil saturation. The CGS has not yet developed Landslide Inventory Maps for the Proposed Project area, nor has Riverside County developed landslide maps. According to data available from San Bernardino County, the nearest mapped landslide is approximately 2.74 miles west of the Proposed Project area. Figure 4.6-3: Soils Map (Subtransmission Line) shows the slope ranges that would be crossed by the Proposed Project. With the exception of RaD3 (8- to 15-percent slopes) and RaE3 (15- to 25-percent slopes)—which underlie the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route along River Road between Kips Korner Road and Jasmine Circle—all areas of the Proposed Project are primarily flat with slopes ranging up to 9 percent. Given the relatively slight slopes, landslide potential or other forms of slope failure across the Proposed Project would be low.

Table 4.6-3: Soil Units Crossed by the Proposed Project

Soil Map Unit	Soil Series	Parent Material	Runoff Classification	Shrink/Swell Potential[4]	Drainage	Erosion Potential
AlC	Arbuckle gravelly loam, 2- to 8-percent slopes	Metasedimentary rock	Medium	2.9	Well drained	Moderate
BhA	Buchenau loam, slightly saline-alkali, up to 2-percent slopes	Mixed	Low	2.9	Moderately well drained	Slight
Cb	Chino silt loam	Mixed	Medium	2.9	Somewhat poorly drained	Slight
CkA	Chualar clay loam, up to 2-percent slopes	Mixed	Medium	5.9	Well drained	Slight
CoA	Cortina sandy loam, up to 2-percent slopes	Metasedimentary rock	Very low	2.9	Somewhat excessively drained	Slight
CpA	Cortina gravelly sandy loam, up to 2-percent slopes	Metasedimentary rock	Very low	2.9	Somewhat excessively drained	Slight
Db	Delhi fine sand	Granite	Negligible	2.9	Somewhat excessively drained	Slight
DmA	Dello loamy sand, poorly drained, up to 2-percent slopes	Granite	Negligible	2.9	Poorly drained	Slight
DrA	Dello loamy fine sand, gravelly substratum, up to 2-percent slopes	Granite	Negligible	2.9	Somewhat poorly drained	Slight
GdA	Garretson gravelly, very fine sandy loam, up to 2-percent slopes	Metasedimentary rock	Low	2.9	Well drained	Slight
GdC	Garretson gravelly, very fine sandy loam, 2- to 8-percent slopes	Metasedimentary rock	Medium	2.9	Well drained	Moderate
GoB	Grangeville loamy fine sand, drained, up to 5-percent slopes	Granite	Very low	2.9	Moderately well drained	Moderate

[4] This value represents the coefficient of linear extensibility (COLE), which is estimated from the bulk density of soil measured when wet and dry.

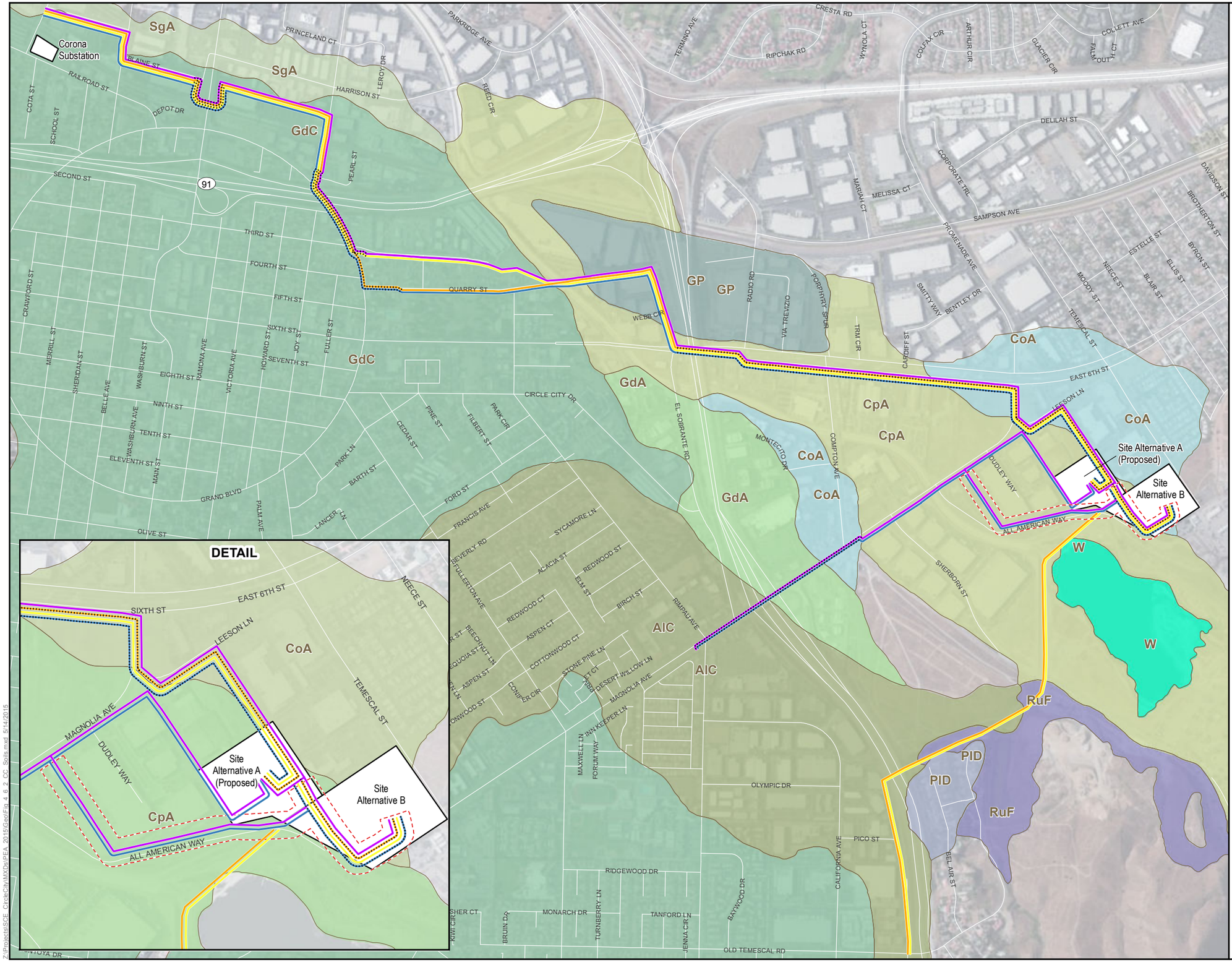
Soil Map Unit	Soil Series	Parent Material	Runoff Classification	Shrink/Swell Potential[4]	Drainage	Erosion Potential
GP	Gravel pits		Negligible	2.9	Excessively drained	Moderate
Gr	Grangeville fine sandy loam	Granite	Very low	2.9	Somewhat poorly drained	Slight
GsB	Grangeville sandy loam, sandy substratum, drained, saline-alkali, up to 5-percent slopes	Granite	Very low	2.9	Moderately well drained	Slight
GuB	Grangeville fine sandy loam, poorly drained, saline-alkali, up to 5-percent slopes	Granite	Low	2.9	Poorly drained	Slight
GyC2	Greenfield sandy loam, 2- to 8-percent slopes, eroded	Granite	Low	2.9	Well drained	Moderate
HhA2	Hilmar loamy sand, up to 2-percent slopes, eroded	Granite	High	2.9	Moderately well drained	Slight
HlA	Hilmar loamy very fine sand, up to 2-percent slopes	Granite	Negligible	2.9	Moderately well drained	Slight
Hr	Hilmar loamy fine sand	Granite	Medium	2.9	Somewhat poorly drained	Slight
MgB	Metz loamy fine sand, gravelly sand substratum, up to 5-percent slopes	Sedimentary rock	Very low	2.9	Somewhat excessively drained	Slight
PlB	Placentia fine sandy loam, up to 5-percent slopes	Granite	Very high	2.9	Moderately well drained	Moderate
PlD	Placentia fine sandy loam, 5- to 15-percent slopes	Granite	Very high	2.9	Moderately well drained	Severe
RaA	Ramona sandy loam, up to 2-percent slopes	Granite	Low	2.9	Well drained	Slight
RaB2	Ramona sandy loam, 2- to 5-percent slopes, eroded	Granite	Low	2.9	Well drained	Moderate

Soil Map Unit	Soil Series	Parent Material	Runoff Classification	Shrink/Swell Potential[4]	Drainage	Erosion Potential
RaB3	Ramona sandy loam, up to 5-percent slopes, severely eroded	Granite	Medium	2.9	Well drained	Moderate
RaC3	Ramona sandy loam, 5- to 8-percent slopes, severely eroded	Granite	High	2.9	Well drained	Moderate
RaD3	Ramona sandy loam, 8- to 15-percent slopes, severely eroded	Granite	High	2.9	Well drained	Severe
RaE3	Ramona sandy loam, 15- to 25-percent slopes, severely eroded	Granite	Very high	2.9	Well drained	Severe
ReC2	Ramona very fine sandy loam, up to 8-percent slopes, eroded	Granite	Low	2.9	Well drained	Moderate
RmC	Ramona sandy loam, 2- to 9-percent slopes	Granite	Medium	2.9	Well drained	Moderate
RsC	Riverwash	Mixed	Very low	0	Excessively drained	Slight
SeA	San Emigdio fine sandy loam, up to 2-percent slopes	Sedimentary rock	Very low	2.9	Well drained	Slight
SgA	San Emigdio loam, up to 2-percent slopes	Sedimentary rock	Very low	2.9	Well drained	Slight
TeG	Terrace escarpments	Not Applicable (N/A)	Very high	0	N/A	N/A
Tug	Tujunga loamy sand, up to 5-percent slopes	Granite	Very low	2.9	Somewhat excessively drained	Slight
W	Water	N/A	N/A	N/A	N/A	N/A

Sources: U.S. Department of Agriculture (USDA), 2013, 2014a, and 2014b

Figure 4.6-2:
Soils Map
(Source Line Route)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project



Substation

Undergrounding

Source Line Route Alternative 1 (Proposed)

Source Line Route Alternative 2

Source Line Route Alternative 3

Source Line Route Alternative 4

Source Line Route Alternative Extensions to Substation Site Alternative B

Soil Types

- AIC - Arbuckle gravelly loam, 2 to 8 percent slopes
- CoA - Cortina sandy loam, 0 to 2 percent slopes
- CpA - Cortina gravelly sandy loam, 0 to 2 percent slopes
- GP - Gravel pits
- GdA - Garretson gravelly very fine sandy loam, 0 to 2 percent slopes
- GdC - Garretson gravelly very fine sandy loam, 2 to 8 percent slopes
- PID - Placentia fine sandy loam, 5 to 15 percent slopes
- RuF - Rough broken land
- SgA - San Emigdio loam, 0 to 2 percent slopes
- W - Water

N

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Sources: Insignia, 2015; SCE, 2015

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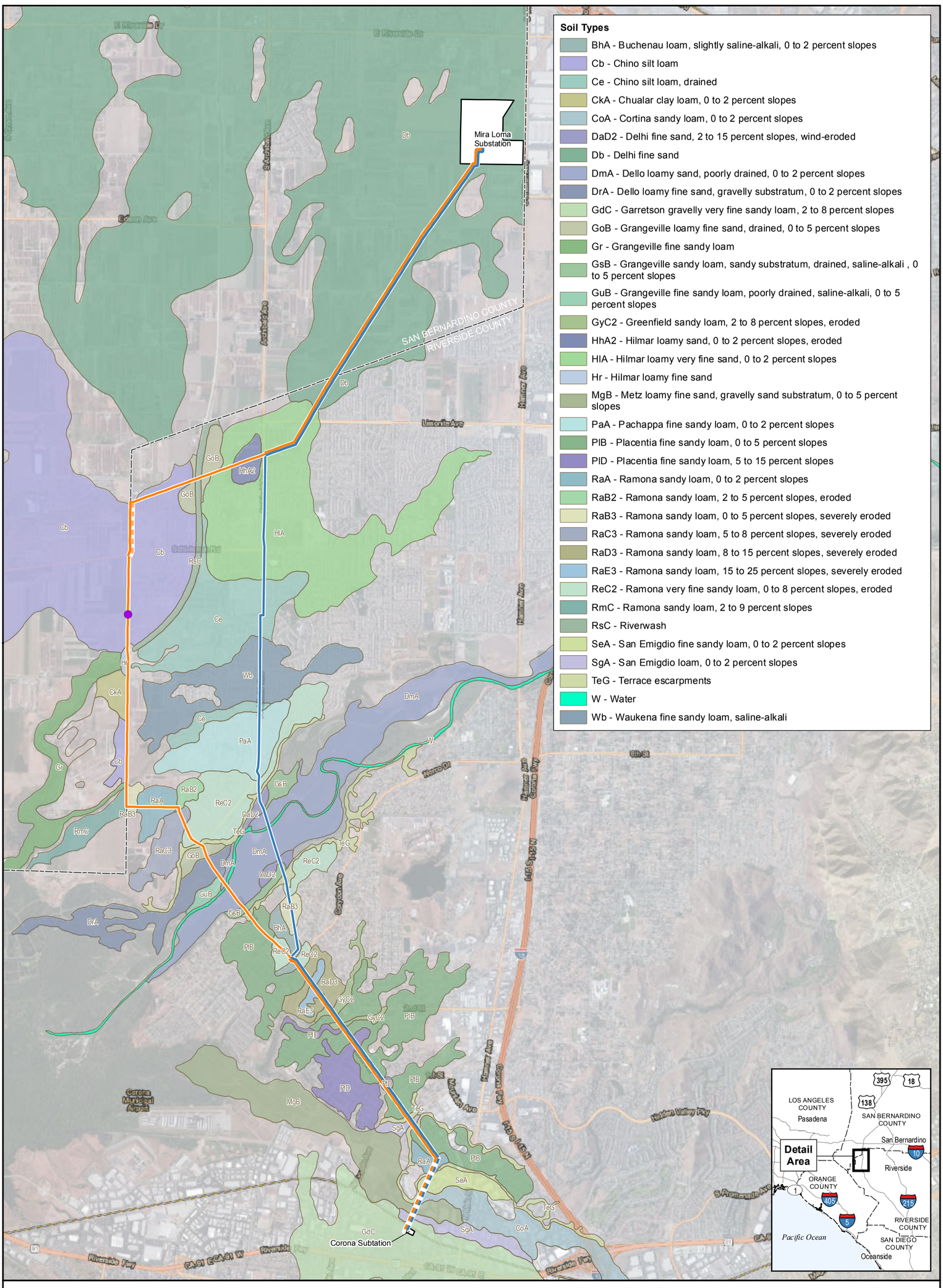

Figure 4.6-3: Soils Map (Subtransmission Line)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

Mira Loma-Jefferson 66 kV Subtransmission Line

- Subtransmission Line Route Alternative 1 - Overhead (Proposed)
- Subtransmission Line Route Alternative 1 - Underground (Proposed)
- Subtransmission Line Route Alternative 2 - Underground*
- Subtransmission Line Route Alternative 3 - Overhead
- Subtransmission Line Route Alternative 3 - Underground
- Subtransmission Line - Underground Crossing
- Substation
- County Boundary

*Note: Except for the underground portion indicated, Alternative Route 2 would utilize the same route as the Alternative Route 1/Proposed Route.

Sources: Insignia, 2015; SCE, 2015

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Liquefaction

Liquefaction takes place when the soil below the water table becomes converted to a fluid state and loses its strength when sufficiently shaken or vibrated during a seismic event. Typically, loose, fine-grained sands and silts below the water table are most susceptible to liquefaction. Medium-dense sands and silts below the water table may also liquefy if the shaking is of sufficient severity and duration. Adverse effects of liquefaction include loss of bearing strength, lateral spreading, sand boils, ground oscillation, and settlement when liquefied ground reconsolidates following the seismic event. The CGS Seismic Hazard Zonation Program has not mapped liquefaction areas within or near the Proposed Project, nor has San Bernardino County mapped liquefaction susceptibility within the proximity of the Proposed Project area.

However, Riverside County has identified areas within its jurisdiction that are susceptible to liquefaction, and while liquefaction is a rare phenomenon, the proposed Circle City Substation site has been identified by Riverside County as a very high liquefaction susceptibility area. Conversely, mapped soil unit data for the proposed Circle City Substation indicates that the proposed substation site is not subject to liquefaction. In addition, according to the Geotechnical Investigation Report for the Circle City 66 kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report), the proposed Circle City Substation site is not considered susceptible to liquefaction because of the absence of shallow groundwater and the dense conditions of the subsurface soil. The portions of the Mira Loma-Jefferson 66 kV Subtransmission Line that would cross the Santa Ana River and travel from Rosebay Court to Archibald Avenue would also be located within Riverside County's very high liquefaction susceptibility areas.

Differential Settlement

If the soil beneath a structure settles non-uniformly, the structure can be damaged. The reasons for differential settlement are usually traced to differences in bearing characteristics of the soils. Alternatively, a portion of the soil beneath a structure may lose strength during an earthquake due to liquefaction, and if liquefaction occurs non-uniformly, differential compaction would occur. Unconsolidated geologic units or disturbed soils in the Proposed Project area may be subject to differential settlement. According to the Geotechnical Investigation Report for the Circle City 66 kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report), this would include areas of undocumented fill and alluvium.

Subsidence

Subsidence occurs most often when fluids are withdrawn from the ground, removing partial support for previously saturated soils; more rarely, subsidence occurs due to tectonic down-warping during earthquakes. Neither source of subsidence appears to be present in the Proposed Project area, and therefore, the probability of damage due to subsidence is low.

Expansive Soils

Expansive soils are characterized by the ability to undergo significant volume change (i.e., shrink and swell) as a result of variation in soil moisture content. Soil moisture content can change due to many factors, including perched groundwater, landscape irrigation, rainfall, and utility leaks. The USDA Natural Resources Conservation Service (NRCS) defines shrink/swell potential as

linear extensibility. Linear extensibility is defined as the change in the bulk density of soil measured when moist and when dry. The resultant values, or COLE, are classified as low (less than 3), moderate (3 to 6), high (6 to 9), or very high (greater than 9). With the exception of CkA (Chualar clay loam and 5.9 COLE), which is found along approximately 0.34 mile of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route south of Chandler Street, the Proposed Project has a low expansion potential with COLE values not exceeding 2.9.

4.6.2 Regulatory Setting

4.6.2.1 Federal

No federal plans or policies concerning geology or soils are relevant to the Proposed Project.

4.6.2.2 State

California Building Code

The Proposed Project is subject to the building standards provided in Title 24, Part 2 of the California Building Code (CBC). The CBC contains necessary California amendments, which are based on the American Society of Civil Engineers (ASCE) Minimum Design Standards 7-05. ASCE 7-05 provides requirements for general structural design and includes means for determining earthquake loads, as well as other loads for inclusion into building codes. The earthquake design requirements take into account the occupancy category of the structure, site class, soil classifications, and various seismic coefficients, which are used to determine a seismic design category (SDC) for a project. The SDC is a classification system that combines the occupancy categories with the level of expected ground motions at the site. Once a project is categorized according to SDC, design specifications can be determined. The provisions of the CBC apply to the construction, alteration, movement, replacement, and demolition of every building or structure, or any appurtenances connected or attached to such buildings or structures, throughout California.

California Public Utilities Commission General Order 95

California Public Utilities Commission (CPUC) General Order (G.O.) 95 Rules for Overhead Line Construction provides general standards for the design and construction of overhead electric transmission lines.

California Public Utilities Commission General Order 128

CPUC G.O. 128 Rules for Construction of Underground Electric Supply and Communication Systems provides general standards for the construction of underground electric systems.

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act was enacted by the State of California in 1972 to mitigate the hazard of surface faulting to structures planned for human occupancy and other critical structures. The State of California has established regulatory zones, known as earthquake fault zones, around the surface traces of active faults. Earthquake fault zone maps have been issued for use by government agencies to plan and review new construction projects. In addition

to residential projects, structures planned for human occupancy that are associated with industrial and commercial projects are the primary concern near Alquist-Priolo faults.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act of 1990 (California Public Resources Code, Chapter 7.8, Section 2690-2699.6) directs the California DOC to identify and map areas prone to liquefaction, earthquake-induced landslides, and amplified ground shaking. The purpose of this program is to minimize loss of life and property through the identification, evaluation, and mitigation of seismic hazards. Seismic Hazard Zone Maps that identify Zones of Required Investigation have been generated as a result of the program. Cities and counties are then required to use the Seismic Hazard Zone Maps in their land use planning and building permit processes. The Proposed Project is in an area that has not yet been mapped as part of the Seismic Hazards Mapping Act.

4.6.2.3 Local

The CPUC has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC G.O. 131-D, Section XIV.B, "Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the CPUC's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the county and city regulations are not applicable as the counties and cities do not have jurisdiction over the Proposed Project. Ministerial permitting, when applicable, would be obtained for the cities of Chino, Corona, Eastvale, Norco, and Ontario, as well as unincorporated areas of Riverside County.

The proposed Circle City Substation would be subject to the building and safety requirements for the City of Corona. Chapter 15.36 of the City of Corona Municipal Code requires a grading permit for excavations deeper than 2 feet, a cut slope taller than 5 feet and steeper than a 2-to-1 horizontal-to-vertical ratio, or for grading activities greater than 100 cubic yards. In order to obtain a permit, the applicant must submit grading plans prepared by a civil engineer.

4.6.3 Significance Criteria

The significance criteria for assessing the impacts to geology and soils are derived from the CEQA Environmental Checklist. According to the CEQA Environmental Checklist, a project causes a potentially significant impact if it would:

- Expose people or structures to potential and substantial adverse effects, including the risk of loss, or injury, or death involving:
    - rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault (refer to the CGS Special Publication 42);
    - strong seismic ground shaking; or

  - seismic-related ground failure, including liquefaction; and landslides

- Result in substantial soil erosion or the loss of topsoil

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

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

- Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater

4.6.4 Impact Analysis

4.6.4.1 Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault strong seismic ground shaking; seismic-related ground failure, including liquefaction; and landslides? – Less-than-Significant Impact

The Proposed Project area is not within an Alquist-Priolo Earthquake Fault Zone and there are no Alquist-Priolo faults that would be crossed by or located immediately adjacent to any Proposed Project facility. The nearest Alquist-Priolo fault—the Chino section of the Elsinore Fault Zone—is located approximately 2.45 miles west of the Proposed Project area. The Elsinore fault is capable of generating an estimated magnitude-6.8 earthquake. As shown in Figure 4.6-1: Earthquake Hazards Map, there are numerous other active faults within 50 miles of the Proposed Project. The San Jacinto Valley section of the San Jacinto Fault Zone is located approximately 14.72 miles from the Proposed Project area, and the San Bernardino section of the San Andreas Fault Zone is located approximately 19.01 miles away. These faults are capable of generating estimated magnitude-6.9 and magnitude-7.5 earthquakes, respectively.

The proposed Circle City Substation, Source Line Route, and Mira Loma-Jefferson 66 kV Subtransmission Line Route would be engineered to withstand strong ground movement and moderate ground deformation. The Institute of Electrical and Electronics Engineers 693 Recommended Practices for Seismic Design of Substations has specific requirements to mitigate substation equipment damage. When these requirements are followed, little structural damage from horizontal ground accelerations approaching 1.0g is anticipated. In addition, proposed aboveground and underground structures would be designed in accordance with CPUC G.O. 95 and G.O. 128 to withstand reasonably foreseeable seismic events. Incorporation of these standard engineering practices would ensure that people or structures would not be exposed to hazards associated with strong seismic ground shaking. As a result, the impacts would be less than significant.

As previously discussed, the Proposed Project area is located in seismically active Southern California where the potential for strong ground shaking exists. Strong earthquakes, particularly near active faults, can result in liquefaction and collapse of soils if all of the right conditions are present. According to the Safety Element of the Riverside County General Plan, the proposed Circle City Substation and the portions of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line that would cross the Santa Ana River and extend from Rosebay Court to Archibald Avenue are located in areas that are considered to be highly susceptible to liquefaction. However, according to the Geotechnical Investigation Report for the Circle City 66kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report), the proposed Circle City Substation site is not considered susceptible to liquefaction because of the absence of shallow groundwater and the dense condition of the subsurface soil. While the occurrence of liquefaction is rare, if the water content was available during a strong earthquake, the soils in these locations have the potential to liquefy and collapse, according to Riverside County. Potential damage from liquefying soils would have a greater impact on buildings or habitable structures than subtransmission line poles. Subtransmission line poles have a much deeper foundation and the conductor can assist in supporting a pole during localized soil movement. Further, as described in Section 3.8 Geotechnical Studies in Chapter 3 – Project Description, Southern California Edison (SCE) would consider the limited environmental soil characterization report that was prepared for the Proposed Project and would conduct additional geotechnical site assessments and field investigations of the proposed substation site and the subtransmission lines prior to the start of construction. The final Proposed Project design would take into the account the site-specific soil conditions, such as water table depth, evidence of faulting, liquefaction potential, physical properties of subsurface soils, soil resistivity, and slope stability. The potential for seismic-induced landslides within the Proposed Project area would be low, considering the flat to gentle sloping terrain, and is anticipated to be less than significant. Therefore, impacts resulting from liquefaction or landslides would be less than significant.

4.6.4.2 Would the project result in substantial soil erosion or the loss of topsoil?

Construction – Less-than-Significant Impact

Grading would expose soil to erosion by removing the vegetative cover. Rain and wind may potentially further detach soil particles and transport them off site. Because the Proposed Project would disturb more than 1 acre, Proposed Project-specific Storm Water Pollution Prevention Plan (SWPPP) would be prepared that identifies best management practices (BMPs) to be implemented during construction. Chapter 3 – Project Description and Section 4.9 Hydrology and Water Quality provide further detail on the SWPPP. SCE would obtain coverage under the State Water Resources Control Board's General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ), which requires a risk assessment based on the soil type, slope, and other on-site characteristics. This information would be used to develop the SWPPP and appropriate BMPs to ensure that erosion and sedimentation would be controlled during construction of the Proposed Project.

The proposed Circle City Substation would be located on flat terrain with minimal erosion potential. Erosion at this site would occur primarily through wind and tracking from vehicles and equipment. The proposed Source Line Route and Mira Loma-Jefferson 66 kV Subtransmission Line Route would cross areas with slight to moderate erosion potential, and Table 4.6-3: Soil

Units Crossed by the Proposed Project shows the erosion potential for each component of the Proposed Project. The erosion potential would be considered when developing BMPs included in the SWPPP. In addition, soil exposure to erosion would be temporary and stabilized following the completion of construction. Because impacts to erosion would be temporary and controlled through the use of BMPs, impacts would be less than significant.

The majority of the Proposed Project would be constructed within an urbanized area where topsoil has been disturbed through development. A portion of the Mira Loma-Jefferson 66 kV Subtransmission Line in the cities of Eastvale and Ontario would be located within agricultural land. Approximately 100 poles would be removed and replaced within these areas. In addition, approximately 2.45 acres of agricultural land would be permanently impacted due to the construction of access roads. The work required to replace the poles would occur primarily in previously disturbed areas and would not be expected to result in an additional loss of topsoil. Section 4.2 Agriculture and Forestry Resources provides further detail on the impacts to agricultural land. Therefore, construction activities along the Mira Loma-Jefferson 66 kV Subtransmission Line would not substantially reduce the amount of productive topsoil in the area.

The proposed Circle City Substation would be located on an industrial site with asphalt concrete and vacant area. The proposed substation would impact approximately 19.5 acres; however, given that the site is partially disturbed and is not currently used for agricultural purposes, impacts to topsoil would be considered less than significant.

Operation – Less-than-Significant Impact

Operation and maintenance of the Proposed Project components would not typically involve ground-disturbing activities or grading. If grading is required, SCE would implement BMPs to minimize erosion and control sedimentation within the work areas. In addition, existing and new access roads would be used for routine operation and maintenance activities. Therefore, impacts to soil erosion or topsoil would be less than significant.

4.6.4.3 Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? – Less-than-Significant Impact

Landslides typically occur on moderate to steep slopes where soils become saturated to the point where they cannot hold their own weight and begin to slough downward. The Proposed Project would be located primarily on flat to gentle terrain with slopes generally ranging up to 9 percent. Steeper slopes are present along the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route. Specifically, slopes range from 8 to 25 percent between Kips Korner Road and Jasmine Circle; however, according to Figure 4.6-3: Soils Map (Subtransmission Line), the soils in this area are well drained and likely not susceptible to catastrophic slope movement. As described in Section 3.8 Geotechnical Studies in Chapter 3 – Project Description, the facilities would be designed to withstand landslides or other soil movement based on the existing soil conditions and other factors identified from the geotechnical studies. As a result, impacts from unstable geological units would be considered less than significant.

As previously discussed, the Proposed Project would cross soils that exhibit at least some of the characteristics that are required for soils to experience liquefaction. Liquefaction is a rare phenomenon, but if the water content was available during a strong earthquake and the soils had the required sand content, liquefaction and collapse could occur. As discussed previously, the potential damage from liquefying soils would have a greater impact on buildings or habitable structures than subtransmission line poles, because the subtransmission poles have a much deeper foundation and the conductor can assist in supporting a pole during localized soil movement. Further, as described in Section 3.8 Geotechnical Studies in Chapter 3 – Project Description, the final Proposed Project design would take into account the site-specific soil conditions. Similarly, if highly unstable soils are present at the proposed Circle City Substation site, the soils would be removed and replaced with engineered fill in accordance with the recommendations of the Geotechnical Investigation Report for the Circle City 66 kV Substation, included in Attachment 4.6-A: Geotechnical Investigation Report. This process would also preclude the potential for lateral spreading or subsidence to pose a threat to Proposed Project facilities. Therefore, impacts would be less than significant.

4.6.4.4 Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? – Less-than-Significant Impact

As described Section 4.6.1.4 Soil Stability and shown in Table 4.6-3: Soil Units Crossed by the Proposed Project, there are soils in the Proposed Project area that have enough clay content to exhibit shrink/swell characteristics. The Geotechnical Investigation Report for the Circle City 66 kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report) provides laboratory results from bore samples. Results from the bore samples would be used in the development of the final grading plans to determine whether imported fill would be necessary to eliminate the potential for expansive soil to damage structures or compromise the integrity of substation equipment. According to the NRCS data presented in Table 4.6-3: Soil Units Crossed by the Proposed Project, the proposed Circle City Substation site is located on soils with a shrink/swell potential of 2.9, which is considered low. Similarly, the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line Route would cross soils with low shrink/swell potential, with the exception of the CkA map unit. The CkA map unit, which has a moderate shrink/swell potential, underlies the Mira Loma-Jefferson 66 kV Subtransmission Line Route along Hellman Avenue in the vicinity of Chandler Street. The portion of the subtransmission line located within the CkA map unit would be constructed overhead.

Extremely expansive soils can damage structures and facilities and can result in collapse. Power outages, damage to nearby roads or structures, and injury or death to people nearby may result from collapse of subtransmission line structures and facilities. However, the soils in the Proposed Project areas are not anticipated to have enough shrink/swell potential to result in large expansions. Further, laboratory data acquired for preparation of the Geotechnical Investigation Report for the Circle City 66 kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report) would be used to design the final grading plans so that the soil composition, compaction, and grade precludes the risk of damage from expansive soils. Given that the Proposed Project would be located on soils that primarily have a low shrink/swell potential and site-specific grading plans would be used at the proposed Circle City Substation site, the risks associated with expansive soils would be less than significant.

4.6.4.5 Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? – No Impact

Soil permeability is a consideration for projects that require septic system installation. Because the Proposed Project would not involve the installation of a septic tank or alternative wastewater disposal system, no impacts would occur.

4.6.5 Applicant-Proposed Measures

By taking the site-specific conditions of the Proposed Project into account in the final design, no potentially significant impacts to geology and soils would occur as a result of the Proposed Project, and no avoidance or minimization measures are proposed.

4.6.6 Alternative Substation Site

Substation Site Alternative B would be located adjacent to the southeast corner of the proposed Circle City Substation site (i.e., Substation Site Alternative A) and has similar soil and geological characteristics. Both sites are underlain by metasedimentary rock, have sandy loam and/or gravelly sandy loam soils, are relatively flat with low runoff potential, and are somewhat excessively drained. The mapped geological conditions for Substation Site Alternative B are the same as the proposed Circle City Substation site. As a result, construction and operation of Substation Site Alternative B would be expected to have the same potential impacts from geological hazards as the proposed substation site. Therefore, construction and operation of Substation Site Alternative B would result in less-than-significant impacts.

4.6.7 Alternative Source Line Routes

The geology and soils in the vicinity of the alternative source line routes are similar to those along the proposed Source Line Route. The alternative source line routes would not be located within an Alquist-Priolo Fault Zone and would not cross any active faults. As shown in Figure 4.6-2: Soils Map (Source Line Route), one additional soil map unit—RuF (30- to 50-percent slopes)—would be crossed by small portions of Source Line Route Alternatives 2 and 3 near Sherborn Street in the City of Corona. While typical slopes for this map unit are steep, the portions of Alternatives 2 and 3 that would cross this map unit are relatively flat and in an area that is primarily developed. In addition, the Source Line Route alternative extension adjacent to All American Way is mapped within similar geological conditions as the proposed Circle City Substation site. As a result, the alternative source line routes would be similar to the proposed Source Line Route and would result in less-than-significant impacts to geology or soils.

4.6.8 Alternative Mira Loma-Jefferson 66 kV Subtransmission Line Routes

The geology and soils in the vicinity of the alternative Mira Loma-Jefferson 66 kV Subtransmission Line routes are similar to those for the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route. Alternative 2 and Alternative 3 are not located within an Alquist-Priolo Fault Zone and would not cross any active faults. As shown in Figure 4.6-3: Soils Map (Subtransmission Line), four additional soil map units—Ce (up to 2-percent slopes), DaD2 (2- to 15-percent slopes), PaA (up to 2-percent slopes), and Wb (up to 2-percent slopes)—would be crossed by Alternative 3 along Archibald Avenue. Alternative 3 would cross the DaD2 soil map

unit for approximately 613 feet along the Santa Ana River. However, these soils are similar to those located in the Proposed Project area and would not result in any additional impacts. As a result, Alternative 2 and Alternative 3 would be similar to the Proposed Project and would result in less-than-significant impacts to geology or soils.

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ATTACHMENT 4.6-A: GEOTECHNICAL INVESTIGATION REPORT

SOUTHERN CALIFORNIA EDISON

Geotechnical Investigation Report
Circle City 66kV Substation
Corona, California

July 20, 2012
Project # 10-124

TDBU Geotechnical Engineering Group

July 20, 2012

Subject: **GEOTECHNICAL INVESTIGATION REPORT**
Circle City 66kV Substation
Leeson Lane and Magnolia Avenue
Corona, California
Project No. 10-124

SCE, Transmission and Distribution Business Unit (TDBU) Geotechnical Engineering Group has prepared this report to present preliminary grading and foundation design and construction recommendations for the proposed Circle City 66kV Substation south of Leeson Lane and Magnolia Avenue in the City of Corona, California.

The substation can be developed from a geotechnical standpoint to support the proposed structures, provided the findings, conclusions, and recommendations presented in this report are incorporated in the preparation of the final grading plan, foundation design, and construction of the project.

The recommendations contained herein are contingent upon adequate monitoring of the geotechnical aspects of the construction by a representative of the TDBU Geotechnical Group.

If you should have any questions, please feel free to contact the undersigned.

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1.0 Introduction

This report presents the findings of the geotechnical investigation performed for the proposed Circle City 66kV Substation in Corona, California. The substation site is located southeast of the intersection of Magnolia Avenue and Leeson Lane. For the site location, see Figure 1, *Site Location Map.*

The purpose of this investigation was to determine the nature and engineering properties of the subsurface soils and to provide preliminary recommendations regarding site-grading, foundation design and construction.

2.0 Project Description

2.1 Site Location and Description

The property is an unoccupied industrial/commercial site with a large metal warehouse structure and attached shed on the northern portion and vacant land in the southern and eastern portions of the site. Portions of the area around the existing building are paved with asphalt concrete. The remainder of the property consists of undeveloped dirt fields. A "U" shaped berm, approximately 10 feet in height, is located in the southeast area of the site, and extends around the southeast portion of the warehouse structure. The berm was possibly used for flood protection of the existing building. The site is a nearly level parcel, with an elevation of 658 feet at the southeast side and 651 at the north near Leeson Lane. The site is surrounded by a chain link fence. Commercial property is to the east and west of the site. A large rock quarry and lake is to the southeast. Commercial property and vacant land is to the northwest.

Based on the preliminary grading plan provided by SCE Civil Engineering Group on December 2, 2011, the site grading will consist of placing between 1 and 4 feet of additional fill. Minimal grading will be required for the access road and swale construction. The area of the proposed substation is shown on Figure 2, *Approximate Boring and Test Pit Location Map.*

2.2 Proposed Development

The project will include construction of a new 66kV/12kV substation to service the Mira Loma-Circle City transmission line. The proposed substation site is in the southeastern portion of a large property with an unoccupied metal building in the northwestern portion of the site. The construction will include grading for the substation site and construction of substation structures, including a paved access roadway from Leeson Lane within a 60-footwide-easement along the eastern margin of the property. The existing shed located within site limits will be demolished.

3.0 Subsurface Exploration & Laboratory Testing

The scope of work for this investigation included a review of existing information, site reconnaissance, subsurface exploration, geotechnical soil sampling, laboratory testing and report preparation.

3.1 Subsurface Exploration

Two subsurface explorations were done for the proposed site; the first was performed in July 2010 followed by additional field exploration in December 2011. This report contains data from both field explorations.

The field exploration performed in July 14, 2010 included six borings B-1 through B-6 drilled within the northern portion of the property using a truck mounted drill rig equipped with 8-inch diameter hollow-stem augers for soil sampling. The boring depths ranged from 11 to 19 feet below the existing ground surface (bgs). All borings were terminated at shallow depth due to refusal in gravel and cobbles. These borings were completed under the supervision of a Southern California Edison geologist/engineer.

Following a relocation of the proposed substation site to the rear (southeast) portion of the property, a second field exploration was performed in December of 2011. This investigation included two trenches TR-1 and TR-2 and two borings B-7 and B-8. The trenches were excavated with a backhoe to a depth of approximately 12 feet bgs. The borings were drilled using a truck mounted air rotary drill rig. The boring depths ranged from 30 to 36.5 feet below the existing ground surface (bgs). Boring B-7 was terminated due to caving whereas boring B-8 was terminated due to sampler detachment at the bottom of boring. The borings and trenches were completed under the supervision of a Southern California Edison geologist/engineer.

Relatively undisturbed thin-walled ring and bulk samples of representative subsurface materials were obtained from the borings and trenches for laboratory testing.

The approximate soil boring and trench locations are shown in Figure No. 2*, Approximate Boring and Test Pit Location Map*.

Boring and Trench Logs are presented in *Appendix A*. For laboratory test results, see Appendix B*, Laboratory Testing Program*.

3.2 Percolation Testing

Percolation testing using double ring infiltrometer test (ASTM D 3385) was conducted to evaluate site soil water infiltration rates for the design of storm water detention basin. The results of percolation rate testing are attached in Appendix C, *Percolation Test Results*.

3.3 Soil Corrosivity and Resistivity Study

A soil corrosivity and resistivity study was conducted to determine soil resistivity profile for grounding design, and to evaluate soil corrosivity to common construction materials in contact with soils. The results of these studies are attached in Appendix D *Soil Resistivity and Corrosivity Study*.

3.4 Geotechnical Laboratory Testing

Representative samples of the site soils were tested in the laboratory to aid in the soil classification and to evaluate relevant engineering properties of the site soils. These tests included:

- *In situ moisture contents and dry densities (ASTM Standard D2216)*
- *Expansion Index (ASTM Standard D4829)*
- *Soil corrosivity tests (Caltrans 643, 422, 417, and 532)*
- *R-Value (D2844)*
- *Grain size distribution (ASTM Standard D422)*
- *Maximum dry density and optimum-moisture content relationship (ASTM Standard D1557)*
- *Direct shear (ASTM Standard D3080)*
- *Consolidation (ASTM Standard D2435)*

For *in situ* moisture content, see the Logs of Borings in *Appendix A*, *Field Exploration*. For laboratory test results, see *Appendix B*, *Laboratory Testing Program.*

4.0 Geologic Setting

The project site is in the central portion of the Peninsular Ranges Geomorphic Province. The Peninsular Ranges Geomorphic Province is bounded on the east by the Salton Trough, the north by the Los Angeles Basin, and extends to the Pacific Ocean to the west. The Peninsular Ranges province is characterized by northwest trending mountains and intervening basins parallel to the major faults and folds in the region. Active faults within this province include the San Jacinto and San Andreas faults to the north of the site and the Whittier-Chino-Elsinore fault system to the west of the site. These faults are primarily right lateral strike slip faults.

The site is underlain by young alluvial channel deposits of the Temescal Wash (Gray and others, 2002). These materials consist primarily of sandy gravel with some silt. The gravel is derived from erosion of granitic, volcanic and metamorphic rocks from the surrounding mountains.

Faults have not been mapped on or near the site and the site is not within a State of California Alquist-Priolo Earthquake Fault Zone (California Geologic Survey, 2007). The nearest designated Alquist-Priolo Earthquake Fault Zone is associated with the Elsinore

fault, approximately 4 miles southwest of the site.

5.0 Site Conditions

5.1 General

This section contains a general description of the subsurface conditions and various materials encountered at the site during the field exploration and a discussion of site-specific geology and groundwater.

5.2 Subsurface Conditions

Based on the field observations and site exploration data, the area of the proposed substation is underlain by a thin mantle of un-compacted fill overlying young alluvial channel deposits of the Temescal Canyon Wash. Pavement surrounding the existing building consisted of 1 to 2-inches of asphalt concrete and up to 5-inches of aggregate base. Since the site has been previously developed, deeper uncontrolled fill and abandoned underground facilities may exist within the site.

Un-compacted fill was encountered in some of the borings to a maximum depth of approximately 24-inches, and within the on-site berm. The fill materials within the berm consisted of mixtures of silty to gravelly sand with silt, mixed with a large percentage of roof clay tile fragments. We understand that the berm fill will be removed from the site.

Subsurface soils in the area of the substation consist of approximately 4 feet of generally fine grained, silt, sand, and gravel mixtures, underlain by coarsely granular alluvium consisting of sand, gravel, cobble, and boulder mixtures to a depth of approximately 28 feet. Alluvial soils below a depth of 28 feet, to the total depth explored (35 feet), are finer grained and consist of silt, sand, gravel mixtures. For additional information on the subsurface conditions, see *Appendix A*, *Field Exploration*.

5.3 Groundwater

The site is within the Temescal Valley Basin (Metropolitan Water District, 2007). Groundwater occurrence in the Temescal Valley Basin encompasses an area of approximately 26 square miles and is an unconfined aquifer within alluvium sediments within the Temescal Canyon Wash. Groundwater flow is from the mountains to the center of the basin and northeast toward the Santa Ana River. Well depths within the basin range from 180 feet to 480 feet. Based on the groundwater contour map for the basin, groundwater is approximately at an elevation of 600 feet in the vicinity of the site or about 60 feet below the ground surface (SAWPA, 2006). No groundwater was encountered in the borings drilled at the site to the maximum depth of 35 feet.

It should be noted that the groundwater level could vary depending upon the seasonal precipitation and landscape irrigation.

5.4 Geotechnical Laboratory Testing Results

Laboratory testing was performed to determine the physical characteristics and engineering properties of the subsurface soils. Results of *in situ* moisture and dry density tests are presented on the Logs of Borings in *Appendix A Field Exploration* and remaining test results are presented in Appendix B*, Laboratory Testing Program.* Discussion on the various test results is presented below:

- *In situ* Moisture and Dry Density – *In situ* dry density in the upper 6 feet ranged from 100 to 125 pcf with moisture content ranging between 1 and 11 percent.

- Expansion Index – Representative sample from B-1 @ 0-5' and Trench TR-1 @ 2.5'-5' was tested to evaluate Expansion Index (EI) in accordance with the ASTM Standard D4829. The values of the measured EI were 3 and 0. These EI value corresponds to a "Very Low" expansion potential, no mitigation measures are considered necessary for this level of expansion.

- Soil Corrosivity – Soil corrosivity evaluation is provided in Appendix D, *Soil Resistivity and Corrosivity Study*.

- R-value Test –R-value tests were performed on representative bulk soil sample B-2 @ 0-5' and TR-1 @ 0-2.5'. The test results indicates the R-value of near surface site soils is 70 and 72. These values indicate that the subgrade soil has a high resistance to traffic loading.

- Gradation Analysis – Gradation testing was conducted on nine representative samples. Results of these tests indicate that the samples tested can be classified as sand (SP) to silty sand (SM) for upper 5' depths, followed by gravelly sand (SP) to sandy gravel (GP) and silty sand (SM) at deeper depths.

- Maximum Dry Density and Optimum Moisture Content – A typical moisture-density relationship of the representative surficial soils are provided in Appendix B and summarized in the following table.

Table No. 1. Maximum Dry Density and Optimum Moisture

Sample Location	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-1 @ 0-5’	131.0	9.3
B-2 @ 0-5’	131.7	9.8
B-3 @ 0-5’	135.3	6.3
B-4 @ 1-5’	137.3	6.2
B-5 @ 0-5’	136.3	7.5
TR-1 @ 0-2.5’	128.4	7.1
TR-1 @ 2.5’-5’	132.8	7.2
TR-1 @ 5’-12’	139.1	5.0

- Direct Shear – Eleven direct shear tests were performed on representative samples. Tests were performed on relatively undisturbed and remolded samples in soaked moisture conditions. Each direct shear test was performed on three ring samples collected at the same depth with a range of normal loads. Results of direct shear tests are summarized in the following table.

Table No. 2. Direct Shear Test Results

Sample Location	Test Conditions	Soil Classification	Ultimate Test Results	
			Cohesion, (psf)	Friction (degrees)
B-1 @ 1-5’	Remolded to 90% /saturated	Sandy Silt with Gravel (ML)	0	36
B-2 @ 5’	Undisturbed/saturated	Silty Sand (SM)	140	38
B-3 @ 0-5’	Remolded to 90% /saturated	Sandy Silt w/ gravel (ML)	0	38
B-3 @ 10’	Undisturbed/saturated	Sandy Gravel (GW)	300	48
B-4 @ 5’	Undisturbed/saturated	Sand and Gravel with Silt (GW)	50	39
B-6 @ 5’	Undisturbed/saturated	Gravelly Sand (SW)	100	40
B-7 @ 2’	Undisturbed/saturated	Sand with Gravel (SP)	50	34
B-7 @ 26’	Undisturbed/saturated	Sand with Gravel (SP)	0	36
B-8 @ 2’	Undisturbed/saturated	Sand with Gravel (SP)	70	35
TR-1 @ 2.5’-5’	Remolded to 90% /saturated	Gravelly Sand with Silt (SP)	40	35
TR-1 @ 5’-12’	Remolded to 90% /saturated	Gravelly Sand with Silt (SP)	20	33

- Consolidation Test – Four (4) Consolidation Tests were performed on samples B-1 @ 5’, B-2 @ 7’, B-3 @ 10’ and B-6 @ 5’. Consolidation testing indicated low to moderate compressibility of soils tested. Expansion and hydrocollapse did not occur.

6.0 Faulting and Seismicity

Based on the available geologic data, the site is not in the Alquist-Priolo Earthquake Fault Zone. The potential for surface rupture at the site due to fault plane displacement

propagating to the ground surface during the design life of the project is considered low. An active fault is defined as one that has had surface displacement within Holocene time (about the last 11,000 years).

The nearest designated Alquist-Priolo Earthquake Fault Zone is associated with the Elsinore fault, approximately 4 miles southwest of the site.

Although the site could be subjected to strong ground shaking in the event of an earthquake, this hazard is common in Southern California and the effects of ground shaking on the structures can be mitigated by proper engineering design and construction in conformance with 2010 CBC, current building codes and engineering practices.

6.1 Seismic Coefficients

The seismic site coefficients are determined in accordance with the 2010 California Building Code and ASCE 7-05 Standard (ASCE, 2005). The seismic site coefficients are presented in the following table:

Table No. 3. CBC Seismic Design Parameters

Maximum Considered Earthquake (MCE) Parameters	**Values**
Site Coordinates	North Latitude 33.8713° West Longitude 117.5308°
Site Class	D
0.2 second Sort Period Spectral Response, Ss	1.500g
1 second Spectral Response, S1	0.600g
Site Coefficient, Fa	1.00
Site Coefficient, Fv	1.50
Short Period Spectral Response, SDS	1.000g
1 second Spectral Response, SD1	0.600g

6.2 Liquefaction, Lateral Spreading and Seismic Settlement

Liquefaction is defined as the phenomenon in which a soil mass, due to the development of excess pore pressures, suffers a substantial reduction in its shear strength. During earthquakes, excess pore pressures may develop in saturated soil deposits as a result of induced cyclic shear stresses, resulting in liquefaction. Soil liquefaction occurs in submerged granular soils during or after strong ground shaking. Based on a review of the General Plan for the City of Corona (EIP Associates, March, 2004), the site is in a low liquefaction potential zone. Based on available data, the project site is not considered susceptible to liquefaction because of the absence of shallow groundwater and the dense condition of the subsurface soil.

The potential of significant differential settlement at the site during earthquakes is considered to be low. The potential for ground lurching during earthquakes cannot be quantified; however, the potential for the ground lurching is considered to be minimal,

and should not be an issue for the project.

Seismically induced lateral spreading involves lateral movement of earth materials due to ground shaking. It differs from a slope failure in that ground failure involving a large movement does not occur due to the flatter slope of the initial ground surface. Lateral spreading is characterized by near-vertical cracks with predominantly horizontal movement of the soil mass involved over the liquefied soils towards an open face. The potential for lateral spreading at subject site is considered very low.

6.3 Landslides

Seismically induced landslides and other slope failures are common occurrences during or soon after earthquakes. The site topography is relatively level and the absence of nearby slopes precludes any slope stability hazards. The potential for seismically induced landslides is considered low.

6.4 Earthquake-Induced Flooding

This is flooding caused by failure of dams or other water-retaining structures as a result of earthquakes. Based on the City of Corona General Plan (EIP Associates, March, 2004), the site is within the Temescal Creek dam inundation area from the Lee Lake dam.

7.0 Earthwork/Site Grading Recommendations

7.1 General

This section contains the general recommendations regarding earthwork and site grading for the proposed development. These recommendations are based on the results of the field explorations, laboratory testing, and data evaluation as presented in the preceding sections. These recommendations may need to be modified based on observation of the actual field conditions during grading.

Prior to the start of any earthwork, the site should be cleared of all vegetation and debris. The materials resulting from the clearing and grubbing operations should be removed from the site. The large berm along the eastern, southern and western margin of the warehouse structure is considered to be constructed of undocumented fill and is not suitable for the support of proposed substation structures.

The final bottom surfaces of all excavations should be observed and approved by the SCE TDBU Geotechnical Group representative prior to placing any fill and/or structures. Based on observations, removal of localized areas deeper than those documented may be required during grading. Some variations in the depth and lateral extent of over-excavation recommended in this report should be anticipated.

7.2 Over-excavation for Structures on Shallow Footings

The upper four feet of site soils are considered unsuitable to support foundation loads and should be excavated. The depth of excavation should also provide required minimum amount of compacted fill under footings as follows:

- Continuous or isolated footings, slabs-on-grade and mat foundations should be placed on at least two feet of fill compacted to 95 percent of maximum dry density.
- Over-excavations should extend at least 18 inches outside foundation footprints.
- Prior to placing fill, the bottom of the foundation excavations should be scarified an additional six inches and compacted to at least 90 percent of the maximum dry density in accordance with ASTM D1557.
- Excavations deeper than 4 to 5 feet below existing grade will encounter soils with high rock content, up to 50 percent by volume of oversize rock greater than 3-inch in diameter.

7.3 Over-Excavation for Pavement Areas

In areas receiving asphalt concrete or Portland cement concrete paving, including driveways and other flatwork, the upper two feet of surficial soils or all undocumented fill, whichever is deeper should be excavated. Such over-excavation should extend at least two feet beyond the pavement edges. The pavement sections should be placed on at least one foot of fill, moisture conditioned as necessary, and compacted to at least 95 percent of the laboratory maximum dry density.

7.4 Substation Pad Grading

As a minimum, subsequent to the removal and disposal of weeds and deleterious debris and existing berm, the upper two feet of surficial soils or all undocumented fill, whichever is greater over the entire site should be over-excavated and replace as fill compacted to at least 90 percent of the maximum dry density to produce a firm and unyielding surface.

7.5 Fill Placement

Prior to placing compacted fill, the approved bottom of the excavations should be scarified to a depth of at least 6 inches. The scarified soils should be moisture conditioned to within three percent of optimum moisture content and compacted to at least 90 percent of the laboratory maximum dry density, to produce a firm and unyielding surface.

All structural fill should be placed on competent, scarified and compacted native materials as determined by the project soils engineer and in accordance with the specifications presented in this section.

Excavated site soils, free of deleterious materials, debris, and rock particles larger than three inches in the largest dimension, should be suitable for placement as compacted fill. The amount of oversized rocks is expected to increase considerably in excavations below a depth of four to five feet, with oversize rock content up to 50 percent by volume.

Prior to compaction, fill materials should be thoroughly mixed and moisture conditioned where necessary, to within three percent of optimum moisture content. Fill should be compacted to at least 90 percent of the laboratory maximum dry density, except for upper 2 feet under footings and slabs and 12 inches under pavement sections, which should be compacted to at least 95 percent in accordance with the ASTM Standard D1557 test method as specified in this report.

At the time of the field investigation, in-situ moisture content of the upper four feet of native soils ranged from 1 to 11 percent. The optimum moisture content for the soil is between 5 and 10 percent. Therefore, some moisture conditioning will be necessary prior to the material being placed as compacted fill. The amount of processing required for proper moisture conditioning at the site will depend on the seasonal variations in the in-situ moisture conditions, the depth of overexcavation, the equipment, and the processing method.

7.5 Imported Fill

Import fill should be tested and approved prior to delivery to the site. For testing of imported fill and import fill requirements contact TDBU Geotechnical Group.

7.6 Shrinkage and Subsidence

The shrinkage of the on-site surficial soil would depend on, among other factors, the depth of overexcavation and/or fill, and the grading method and equipment utilized. In order to calculate shrinkage, the subject project area has been divided as indicated in Figure 3*, Site Shrinkage Calculation Map*. Representative borings were selected for each of the areas. Shrinkage at specific depths within these areas is provided in Table 5. The shrinkage can be determined when final grading plans become available based on the substation footprint and depth of cut. Removal of oversized rock will increase the shrinkage, which is not included in the shrinkage calculations below.

Table No. 4. Shrinkage Calculations

Boring No.	Area No.	Depth, ft	Max Density (pcf)	In-Situ Density (pcf)	Shrinkage (%)	
					(90%)	(95%)
B-1	Outside of project limits					
B-2	A_1	0-2.5	131.7	107	11.7	15.4
		2.5-4.5	131.7	114	5.9	9.8
		4.5-5.5	131.7	117	3.4	7.5
B-3	A_2	0-2.5	135.3	119	4.4	8.4
		2.5-4.5	135.3	115	7.6	11.5
		4.5-5.5	135.3	119	4.4	8.4
B-4	A_3	0-4	137.3	112	11.3	15.0
		4-6	137.3	125	1.0	5.2
B-5	A_4	0-2.5	136.3	112	10.7	14.4
		2.5-4.5	136.3	106	15.5	19.0
		4.5-5.5	136.3	116	7.5	11.3
B-6	A_5	0-2.5	136.3*	123	1.9	6.0
		2.5-4.5	136.3*	111	11.5	15.2
		4.5-5.5	136.3*	122	2.7	6.8
B-7	A_6	0-4	132.8*	118	3.2	7.2
		4-6	132.8*	106	13.6	17.2
B-8	A_7	0-5	132.8*	115	6.2	10.1

* Max Density taken from adjacent borings or test pits

Subsidence would depend on the construction methods including type of equipment utilized. For estimation purposes, ground subsidence may be taken as 0.1 feet.

These values of shrinkage and subsidence are estimated based on the latest preliminary grading plans and available laboratory data and represent our best estimates of the factors to be used to calculate volume loss that may occur during grading.

7.7 Excavations and Temporary Slopes

Where excavations are deeper than 4 feet, the sides of the excavations should be sloped back at 1.5:1 (horizontal to vertical) or shored for safety. Unshored excavations should not extend below a plane drawn at 1.5:1 (horizontal to vertical) extending downward from adjacent existing footings. All applicable safety requirements and regulations, including OSHA regulations, should be met.

7.8 Site Drainage

Adequate positive drainage should be provided away from graded areas to prevent ponding and to reduce percolation of water into the foundation soils. Surface drainage should be directed to suitable non-erosive devices. Any slope should be planted as soon as possible after construction.

8.0 Design and Construction Recommendations

8.1 General Evaluation

The various design recommendations provided in this section are based on the assumption that the earthwork and grading recommendations will be implemented in preparing the site.

8.2 Foundation Types and Bearing Pressures

The proposed substation structures may be supported by shallow spread footings, mat foundations or drilled piers. Design recommendations for various types of foundations are presented below.

8.2.1 Shallow Spread Footing Design Parameters

Continuous and isolated shallow spread footings should be at least 18 and 24 inches wide, respectively, and embedded at least 18 inches below lowest adjacent soil grade.

Footings should be placed on the minimum thickness of non-expansive structural fill as recommended in the grading section. An allowable net vertical bearing pressure for 18 inches wide footing with minimum embedment of 18 inches below adjacent grade is 1,500 pounds per square foot. The allowable bearing capacity may be increased by 500 psf for each additional foot of embedment depth and 250 psf for each additional foot of width to a maximum value of 5,000 psf. The net allowable bearing values indicated above are for the dead loads and frequently applied live loads and are obtained by applying a factor of safety of 3.0 to the net ultimate bearing capacity. If normal code requirements are applied for design, the above vertical bearing value may be increased by 33 percent for short duration loadings, which will include loadings induced by wind or seismic forces.

8.2.2 Mat Foundations

For design of mat foundations founded on imported granular fill, the following equation may be used to calculate the modulus of subgrade reaction, k:

$k = 300[(B+1)/2B]^2$
k = modulus of subgrade reaction, kips per cubic feet
B = foundation width, feet

8.3 Drilled Cast-In-Place Friction Piles

8.3.1 Vertical Capacity

The minimum center-to-center spacing between piles should be no less than three pile diameters. No group efficiency factors are considered necessary. Pile group efficiencies at other pile spacing should be evaluated on a case-by-case basis.

Vertical uplift capacities for intermittent loads can be calculated from the friction capacities.

8.3.2 Pile Construction

Pile drilling and concrete placement should be performed in accordance with the recommendations presented in the Standards and Specifications of ADSC, a*nd International Association of Foundation Drilling Contractors.*

Because of the rocky nature of the subsurface soils (below about four feet depth), caving is considered likely. Difficult drilling should be expected due to presence of cobbles and boulders. The following recommendations should be incorporated into the pile construction if caving is encountered.

Provisions for controlling caving during drilling and pile construction should be assumed by the contractor. Methods to reduce caving may include the use of temporary casing, or slurry assisted drilling methods. Casing can be installed with or without drilling assistance or by gravity to allow the pile shaft to be extended through the zone of caving. The casing is removed following placement of the rebar cage and filling with sufficient concrete to provide continuity of the pile section through the zone of caving. Slurry assisted construction consists of the use of bentonite slurry or a polymer that provides caking and a sufficient density to control support of the zone of caving soil. Once the drilling is completed and the rebar cage placed, the slurry is displaced by tremied concrete. These measures may also be employed in the event that caving conditions are encountered where no preventative measures have been used during the drilling. Drilling would be stopped at the depth of caving, temporary casing would be placed and/or slurry introduced into the borehole and then drilling would resume. The use of a weak cement-sand slurry may also be considered. In this case, the zone of caving would be filled with the cement-sand slurry and the borehole advanced through the hardened slurry. To assist the contractor in the selection of a suitable method for accommodating potential caving, additional information can be found in the U.S. Department of Transportation, Federal Highway Administration's Manual on Drilled Shafts: Construction Procedures and Design Method (US Department of Transportation, Federal Highway Authority, 1999).

8.4 Lateral Earth Pressures and Resistance to Lateral Loads

No significant retaining walls are expected on this project. The earth pressures acting

on retaining walls depends primarily on allowable wall movement, type of backfill materials, backfill slopes, wall inclination, surcharges, and any hydrostatic pressure. The cantilever walls with level backfill, no hydrostatic pressure and no surcharge loading can be designed based on active equivalent fluid pressure of 35 pcf.

The resistance can be provided by passive pressure of 300 pcf for footings against compacted fill, and the friction coefficient between concrete and soil of 0.4. The upper one foot of fill should not be used in passive resistance evaluation.

8.5 Slabs-On-Grade

Based on results of the expansion index test, the site soils have "Very Low" expansion index. The expansion index should be verified at the completion of grading. The slabs-on-grade should be at least four inches thick. Care should be taken to avoid slab curling if slabs are poured in hot weather. Moisture sensitive slabs-on-grade should be protected by 6-mil-thick polyethylene vapor barriers. The barrier should be overlain by two inches of sand to minimize punctures and to aid in the concrete curing.

Subgrade for slabs-on-grade should be firm and uniform. All slab subgrade should be moisture-conditioned between optimum and two (2) percent above optimum at subgrade soils prior to the placement of concrete. All loose or disturbed soils including under slab utility trench backfills should be recompacted prior to the placement of clean sand underneath the moisture barrier.

8.6 Soil Corrosivity Evaluation

Preliminary corrosivity testing was conducted for the site. The results of the testing are included in Appendix B, *Laboratory Testing Program*. A separate study was prepared to provide final corrosion protection recommendations, attached in Appendix D, *Soil Resistivity and Corrosivity Study*.

8.7 Asphalt Concrete Pavement

Asphalt concrete pavement sections corresponding to Traffic Indices (TIs) ranging from 5 and 7 and an R-value of 50 are presented for preliminary design. Analysis was based on Caltrans' design procedure for flexible pavement structural sections. The results of our analysis are summarized in Table No. 5.

Table No. 5. Pavement Design Sections

R-Value	Facility Type	Traffic Index (TI)	Pavement Sections	
			Asphalt Concrete (inches)	Aggregate Base (inches)
50	Driveways Inside Substation	5.0	3.0	4.0
	Substation Access Roads	7.0	3.5	5.5

At or near the completion of grading, subgrade soil samples should be tested to evaluate the actual subgrade for final pavement design. The pavement section thickness recommended above are based on native soil subgrade, the pavement sections will need to be re-evaluated, based on the imported soil properties.

Prior to placement of aggregate base, at least the upper 12 inches of subgrade soils should be scarified, moisture-conditioned, if necessary, and recompacted to at least 95 percent of the laboratory maximum dry density as defined by ASTM Standard D1557 test method.

Base materials should conform with Section 200-2.2, "*Crushed Aggregate Base*," of the current Standard Specifications for Public Works Construction (SSPWC) and should be placed in accordance with Section 301.2 of the SSPWC.

Asphaltic concrete materials should conform to Section 203 of the SSPWC and should be placed in accordance with Section 302.5 of the SSPWC.

8.8 Settlement

Total settlement of the proposed structures placed on compacted fill, designed as recommended above, from structural load-induced settlements should be 3/4-inch or less. The differential settlement can be taken as equal to one half of the total settlement over a distance of 50 feet.

8.9 Geotechnical Observation

Prior to construction, the TDBU Geotechnical Group should be contacted to coordinate field observations during construction.

Observations of removal of deleterious materials and roots, the re-working of the upper soils and excavation bottoms should be made by a representative of the TDBU Geotechnical Group. Imported fill materials should be tested and approved by TDBU Geotechnical Engineer/Engineering Geologist prior to the delivery to the site. Structural fill and backfill should be placed and compacted during continuous observation and testing. Footing excavations and drilling for drilled pier foundations should be observed by TDBU Geotechnical Engineer/Engineering Geologist prior to placement of steel and concrete so that footings are founded on satisfactory materials and excavations are free of loose and disturbed materials.

The governmental agencies having jurisdiction over the project should be notified prior to commencement of grading so that the necessary grading permits can be obtained and arrangements can be made for required inspection(s). The contractor should be familiar with the inspection requirements of the reviewing agencies and the content of this report.

9.0 Closure

This report has been prepared to aid in the evaluation of the site, prepare site grading recommendations and to assist the civil and structural engineers in the design of the proposed substation structures and associated foundations.

No final site grading plans were available at the time this report was prepared. The site earthwork and design recommendations provided in this report should be considered preliminary. The final grading plan should be reviewed for compliance with the design recommendations.

Recommendations presented herein, are based upon the assumption that adequate earthwork monitoring will be provided. The findings and recommendations of this report were prepared in accordance with the generally accepted professional engineering and engineering geologic principles and practice within our profession in effect at this time in California.

10.0 References

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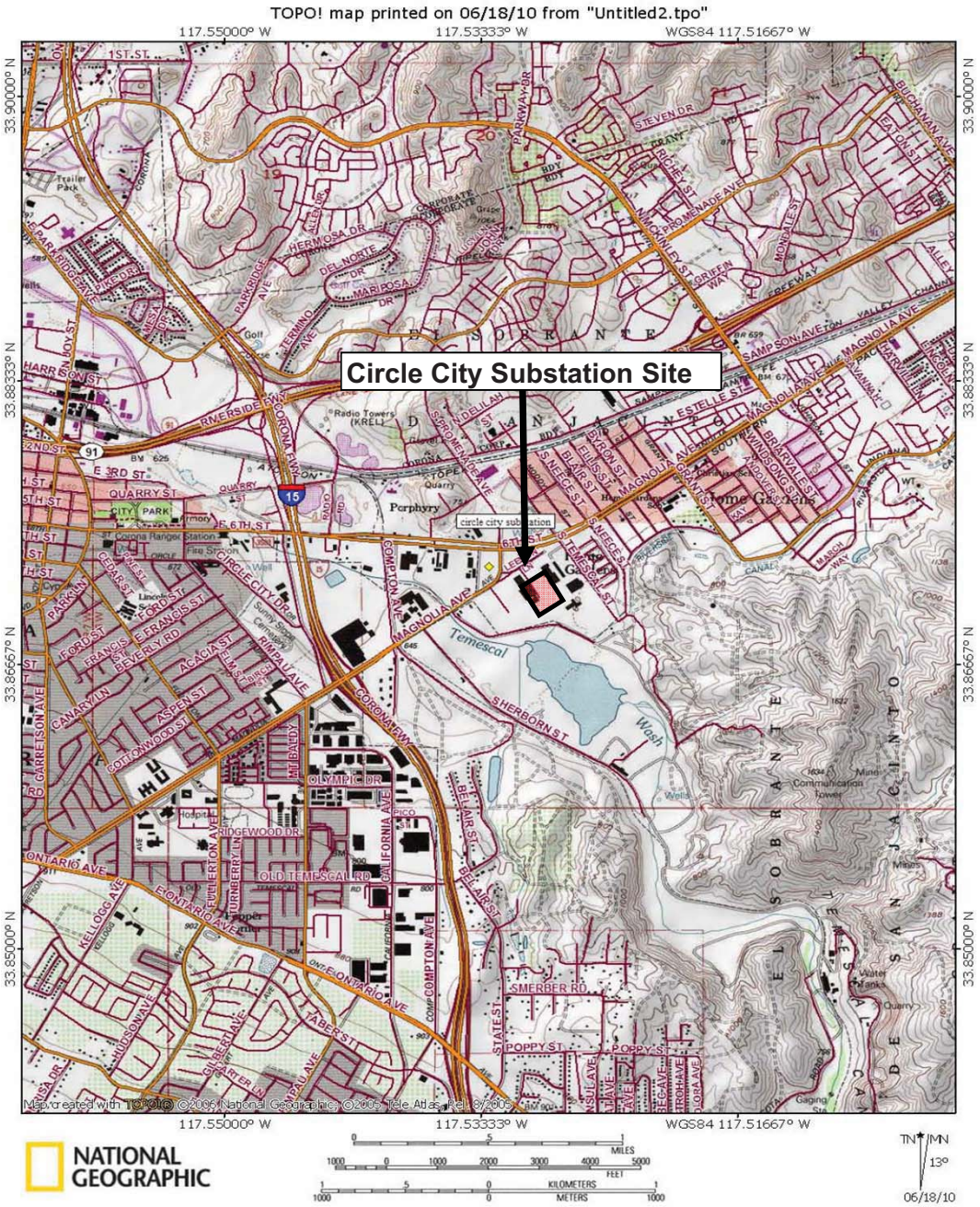


Site Location Map

Project Name: Circle City 66kV Substation

Source: NAT GEO

Location: Corona, CA

TDBU Geotechnical Engineering Group

Figure No. **1**

Explanation

B-1/12 — Approximate Location and Depth of Exploratory Boring

Approximate Location of Test pit

Approximate site limits

Based on Conceptual Grading Plan by SCE received 2-1-12

Approximate Boring and Test Pit Location Map

Project Name: Circle City 66kV Substation

Source: SCE drawing

Location: Corona, CA

TDBU Geotechnical Engineering Group

Figure No. 2

Explanation

B-1/12 — Approximate Location and Depth of Exploratory Boring

Approximate Location of Test pit

Approximate site limits

Based on Conceptual Grading Plan by SCE received 2-1-12

Site Shrinkage Calculation Map

Project Name: Circle City 66kV Substation

Source: SCE drawing

Location: Corona, CA

TDBU Geotechnical Engineering Group

Figure No. 3

APPENDIX A

FIELD EXPLORATION

Geotechnical Soilutions, Inc.		Boring No. 1	Sheet 1 of 1
		Date:	7/14/2010
		Drilling Contractor: Choice Drilling	
Client:	SCE	Equipment:	8" Hollow Stem Auger
Project No.	GS 1076 SCE	Driving Weight:	140 # / 30"
Location:	Circle City, Corona	Elevation:	
		Logged by:	T. Hill

Depth in Feet	Drive Sample	Bag Sample	Lab Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf)	Classification	Symbol	Visual Description
0									2" AC Pavement, No base
	R		Max	6/7/10	10	115			**2" - 12' Alluvium:**
			Exp				ML		Fine grained alluvium. Yellow brown, sandy silt, trace clay
	R		Shear	5/6/8	11	111			and fine gravel, moist
			Chem						At 4', Coarse grained alluvium. Yellow brown and gray,
5			Sieve				SM		gravelly sand, sandy gravel with silt and clay, moist,
	R		Consol	15/18/26	3.6	116			dense-very dense.
									At 5', Slow, difficult drilling on rounded, hard cobbles
	R			50-4"	2.9	117	GM		At 7.5', Disturbed sample, sand-gravel mix, very dense
10									
	NR			50-6"					No recovery, very rocky
15									Total depth = 12'
									Refusal @ 12'
									No water
									Backfilled with cuttings AC patched
20									
25									
30									

R-Ring Sample, SPT-Standard Penetration, NR- No Recovery

Geotechnical Soilutions, Inc.			Boring No. 2	Sheet 1 of 1
			Date:	7/14/2010
			Drilling Contractor: Choice Drilling	
Client:	SCE		Equipment:	8" Hollow Stem Auger
Project No.	GS 1076 SCE		Driving Weight:	140 # / 30"
Location:	Circle City, Corona		Elevation:	
			Logged by:	T. Hill

Depth in Feet	Drive Sample	Bag Sample	Lab Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf)	Classification	Symbol	Visual Description
0									2" AC Pavement, No base
	R			8/6/5	8.6	107			**2"-12', Alluvium:**
			R value				ML		2"-6', Fine grained alluvium. Yellow brown, sandy silt,
	R		Sieve	4/5/5	2.1	114			trace clay and fine gravel, moist
			Max						
5							SM		At 5', Change to yellow brown, fine to medium silty sand,
	R		Shear	3/4/5	9	117			trace of clay, fine gravel, moist, loose.
									6'-12', Coarse grained alluvium.
	R		Consol	20/26/32	3.3	120	GM		Yellow brown and gray, sandy fine-coarse
							GC		gravel, trace silty clay, moist, dense-very dense
10									
	R			23/40/50	5	116			As above, very dense
15									Total depth = 12'
									Refusal @ 12'
									No water
									Backfilled w/cuttings, AC patched
20									
25									
30									

R-Ring Sample, SPT-Standard Penetration

Geotechnical Soilutions, Inc.		Boring No. 3	Sheet 1 of 1
		Date:	7/14/2010
		Drilling Contractor: Choice Drilling	
Client:	SCE	Equipment:	8" Hollow Stem Auger
Project No.	GS 1076 SCE	Driving Weight:	140 # / 30"
Location:	Circle City, Corona	Elevation:	
		Logged by:	T. Hill

Depth in Feet	Drive Sample	Bag Sample	Lab Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf)	Classification	Symbol	Visual Description
0									**0-1.5' Fill:**
	R			8/10/14	3.3	119	SM		Gray, silty fine-coarse sand with fine-coarse gravel
			Max						dry, loose
	R		Shear	12/16/22	5.5	115			**1.5'-19' Alluvium:**
			Sieve				SM		1.5'-6', Fine grained alluvium. Yellow brown, silty sand, trace
5			Chem						clay and fine gravel, damp moist.
	R			20/50-6"	4.6	119			At 5', as above, then sandy gravel in sample tip, damp,
									very dense
	R			21/42/50	3	120	GM		6'-19', Coarse grained alluvium. Gray, sandy, fine-coarse
							GC		gravel with silt, clay and cobbles, moist, very dense
10									
	R		Shear	20/42/42	3.6	122			As above, very dense
			Consl						
15									
	R		SPT	20/50-5"					As above, very dense
20									Total depth = 19'
									Refusal @ 19'
									No water
25									Backfilled w/cuttings
30									

R-Ring Sample, SPT-Standard Penetration

Geotechnical Soilutions, Inc.			Boring No. 4	Sheet 1 of 1
			Date:	7/14/2010
			Drilling Contractor: Choice Drilling	
Client:	SCE		Equipment:	8" Hollow Stem Auger
Project No.	GS 1076 SCE		Driving Weight:	140 # / 30"
Location:	Circle City, Corona		Elevation:	
			Logged by:	T. Hill

Depth in Feet	Drive Sample	Bag Sample	Lab Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf)	Classification	Symbol	Visual Description
0									1" AC Pavement, 1"-5" Base
	R			5/6/7	2.6	112			**5"-12.5' Alluvium**:
			Max				ML		5"-4', Fine grained alluvium. Yellow brown, sandy silt with clay
	R			4/5/7					and gravel, moist, stiff. At 2.5' sample disturbed.
5									4'-12.5', Coarse grained alluvium. Yellow brown sandy gravel,
	R		Shear	12/18/30	1	125	GM		fine-coarse with cobbles, silt and clay moist, dense-very
							GC		dense
	R			18/30/50	3.7	120			At 7.5' as above, very dense
10									
	R			15/37/50	6.6	124			As above, very dense
15									Total depth = 12.5'
									Refusal @ 12.5'
									No water
									Backfilled w/cuttings
									AC patched
20									
25									
30									

R-Ring Sample, SPT-Standard Penetration

Geotechnical Soilutions, Inc.				Boring No. 5	Sheet 1 of 1
				Date:	7/14/2010
				Drilling Contractor: Choice Drilling	
Client:	SCE			Equipment:	8" Hollow Stem Auger
Project No.	GS 1076 SCE			Driving Weight:	140 # / 30"
Location:	Circle City, Corona			Elevation:	
				Logged by:	T. Hill

Depth in Feet	Drive Sample	Bag Sample	Lab Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf)	Classification	Symbol	Visual Description
0									**Alluvium:**
	R			20/26/30	2.6	112			0-4' Fine grained alluvium. Yellow brown, silty sand
			Max				SM		trace gravel, damp, hard
	R		Sieve	25/30/42	3.1	106			As above, hard.
5							GM		4'-11' Coarse grained alluvium. Yellow brown, yellow
	R			16/20/50	2.1	116			brown, sandy gravel with silt, moist, very dense
									At 7.5'-11', Too rocky to sample, moved boring 3 times
10									
15									Total depth 11' Refusal @11' No water Backfilled w/cuttings
20									
25									
30									

R-Ring Sample, SPT-Standard Penetration

Geotechnical Soilutions, Inc.				Boring No. 6	Sheet 1 of 1
				Date:	7/14/2010
				Drilling Contractor: Choice Drilling	
Client:	SCE			Equipment:	8" Hollow Stem Auger
Project No.	GS 1076 SCE			Driving Weight:	140 # / 30"
Location:	Circle City, Corona			Elevation:	
				Logged by:	T. Hill

Depth in Feet	Drive Sample	Bag Sample	Lab Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf)	Classification	Symbol	Visual Description
0	R			15/50-6"	2	123	CL		**0-1.5' Fill:** Mixture of silt/clay, and fired clay roof tile fragments, dry, hard
									1.5'-12.5' Alluvium:
	R			20/52/40	2.7	111	ML		1.5'-4', Fine-grained alluvium. Yellow brown, sandy silt, trace gravel, clay, dry, hard
5									4'-12.5', Coarse grained alluvium. Yellow-brown and gray,
	R		Shear	21/30/46	0.7	122	GW		sandy fine-coarse gravel, moist, very dense
			Consol				GP		At 5', as above, very dense slow drilling
	R			50-4"					At 7.5', Rocky, no recovery, very dense
10									
	NR								At 10', No sample, too rocky
15									Total depth = 12.5'
									Refusal @ 12.5'
									No water
									Backfilled with cuttings
20									
25									
30									

R-Ring Sample, SPT-Standard Penetration, NR-No Recovery.

Geotechnical Soilutions, Inc.

LOG OF BORING # B 7

Client:	Southern California Edison	Equipment:	Air Rotary, truck mounted
Project No.	GS 1076	Driving Weight:	140 lbs/30"
Location:	Circle City Substation	Elevation:	
		Logged by:	EFH

Boring No. 7	Sheet 1 of 2
Date:	12/12/2011
Drilling Contractor: Cascade Drilling	

Depth in Feet	Drive Sample	Bag Sample	Lab. Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf	Classification	Symbol	Visual Soil Description
0									**Fill (0-2')**
									Gravelly sand, red tile fragments, mottled brown, dry.
	R		Shear	29/29/34	1.3	118.3			**Alluvium**
							SP		Fine to Coarse-grained sand with rock fragments, mottled dark gray-brown, slightly moist.
5	R		Chem	19/50-5"	2.5	105.6			
	R			50-4"					No recovery, few hard dark gray rock fragments.
10	R			25/50-3"					No recovery, cyclone cuttings are sand with dark gray chips.
15	SPT			50-5"			SP		Dark gray rock fragments, minor sand matrix.
20	R			31-4"					No recovery, switched to SPT sampler.
	SPT			40-3"					Dark rock fragments with minor sand matrix.
									At 23' to 26' Cyclone cuttings contain much fine to coarse-grained sand, tan color.
25	R		Shear	50-6"	8.5	116.0	SP		Fine to coarse-grained sand with rock fragments (2"+), moist.
30	SPT			22/24/16					Fine to coarse-grained sand with rock fragments (2"+), moist.

R-Ring Sample, SPT-Standard Penetration Test.

Note: SPT reading without liner.

Geotechnical Soilutions, Inc.

LOG OF BORING # B 7

		Boring No. 7	Sheet 2 of 2
		Date:	12/12/2011
		Drilling Contractor: Cascade Drilling	
Client:	Southern California Edison	Equipment:	Air Rotary, truck mounted
Project No.	GS 1076	Driving Weight:	140 lbs/30"
Location:	Circle City Substation	Elevation:	
		Logged by:	EFH

Depth in Feet	Drive Sample	Bag Sample	Lab. Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf	Classification	Symbol	Visual Soil Description
30-	SPT			22/24/16			SP		Fine to coarse-grained sand with rock fragments (2"+), moist.
35-	R			7/9/14	5.1	108.4	SP		Fine to coarse-grained sand, many small rock fragments (gravel size +), slightly moist.
40-									Total Depth = 36'-6" No Groundwater (Local Moist Zone at 26'). Hole Cased to 26' Due to Caving.
45-									
50-									
55-									
60-									

R-Ring Sample, SPT-Standard Penetration Test.

Note: SPT reading without liner.

Geotechnical Soilutions, Inc.

LOG OF BORING # B8

Client:	Southern California Edison	Equipment:	Air Rotary, truck mounted
Project No.	GS 1076	Driving Weight:	140 lbs/30"
Location:	Circle City Substation	Elevation:	
		Logged by:	EFH

Boring No. 8 | Sheet 1 of 1

Date: 12/13/2011

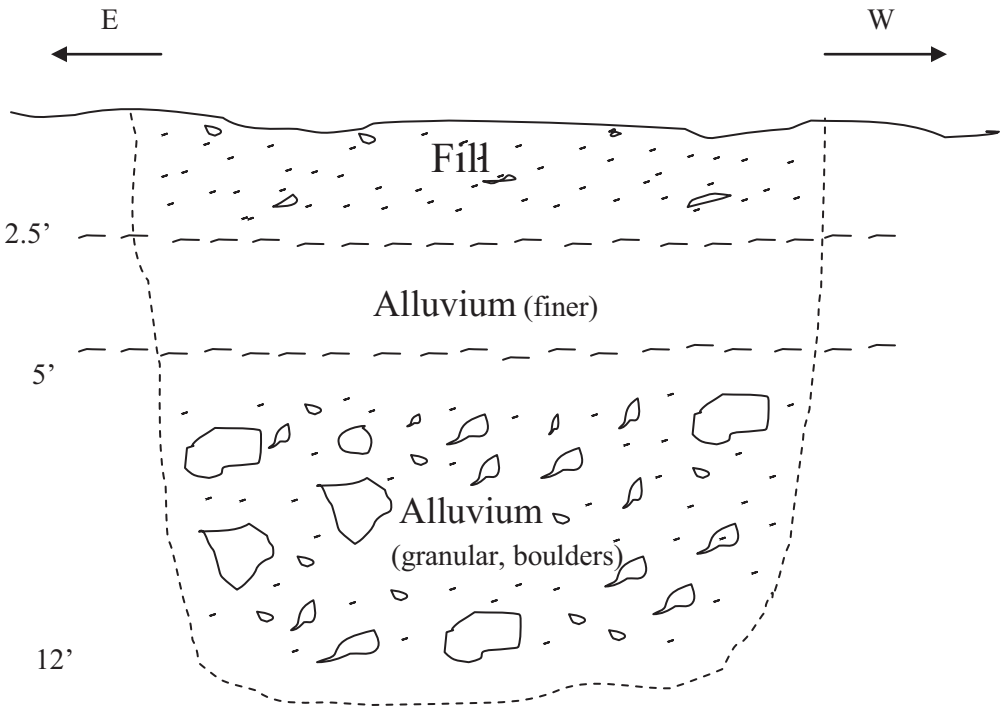
Drilling Contractor: Cascade Drilling

Depth in Feet	Drive Sample	Bag Sample	Lab. Testing	Blows per 6 inches	Moisture Content %	Dry Unit Weight (pcf	Classification	Symbol	Visual Soil Description
0-									**Alluvium**
	R		Shear	8/18/2012	1.1	114.6	SP		Fine to coarse-grained sand, gravelly, with rock fragments to 4", mottled brown, slightly moist to dry.
5-	R			50-6"					No recovery, rocky material.
	R			50-6"	1.1	100.0			Dark gray rock fragments, minor sand matrix, dry.
10-	SPT		Sieve	37-6"					Dark gray rock fragments with some sand, dry.
							SP		Cyclone cuttins predominating rock chips.
15-	R			32-3"					No recovery.
20-	SPT		Sieve	26/50-6"					Upper: dark gray rock fragments.
							ML		Lower: Dark tan-brown sandy silt, slightly clayey, moist.
									Cyclone cuttings, very fine sandy silt, slightly clayey, with scattered small rock fragments, dark tan-brown, moist.
25-	R			30/50-6"					No recovery.
	SPT						ML		Resampled with SPT (Disturbed): fine sandy silt, slightly clayey, tan-brown, with scattered hard gray rock fragments, moist.
30-	R			13/13/50					Sample detached from drill stem (at 2:30 pm).
									Total Depth = 30' No Ground Water

R-Ring Sample, SPT-Standard Penetration Test.

Note: SPT reading without liner.

Geotechnical Soilutions, Inc.	Location: 1620 Lesson Lane, Corona Project No.: GS 1076 Project Name: SCE Circle City Substation	Test Pit No.: TR-1 Equipment: Backhoe Date: 12/12/11 Logged by: Eirik Haenshke



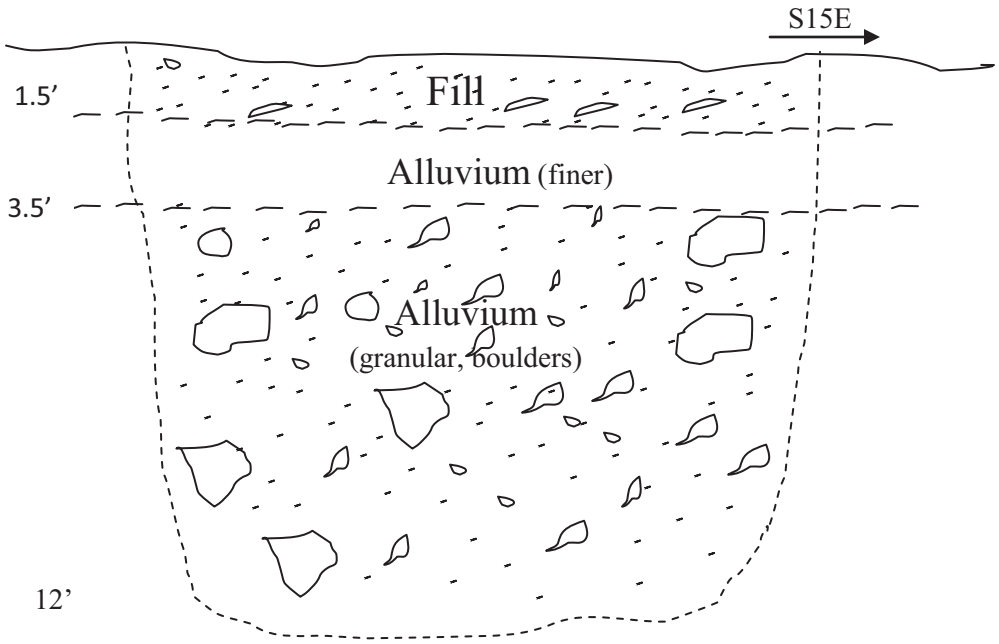
0-2'6" Fill
Fine to coarse-grained sand, slightly silty, gravelly, few rock fragments to 4" dimension, scattered tile fragments, mottled tan-brown to beige-tan, dry to slightly moist, loose.
(Lab tests: Max, Sieve and R-Value).

2'6"-5' Alluvium (finer)
Silty fine-grained sand, few scattered rock fragments (generally <3), dark tan-brown, porous locally, firm to medium dense, slightly moist.
(Lab tests: Max, Sieve, Expansion, Remolded Shear, Chemical).

5'-12' Alluvium (granular, boulders)
Medium to coarse-grained sand with numerous subangular to subrounded cobbles and boulders*
(to ~2' dimension), tan-brown overall, medium dense to dense overall- caving and "belling" below 5', dry to slightly moist.
(Lab tests: Max, Sieve, Remolded Shear).

(*Approximately 50% >3").

Geotechnical Soilutions, Inc.	Location: 1620 Lesson Lane, Corona Project No.: GS 1076 Project Name: SCE Circle City Substation	Test Pit No.: TR-2 Equipment: Backhoe Date: 12/12/11 Logged by: Eirik Haenshke



0-1'6" Fill
Fine to coarse-grained sand, slightly gravelly, with scattered rock fragments to 2" dimension, few tile fragments, grayish beige, dry to slightly moist, loose.

1'6"-3'6" Alluvium (finer)
Silty fine-grained sand, few scattered rock fragments (generally <3), dark tan-brown, porous locally, firm medium dense, slightly moist.

3'6"-12' Alluvium (granular, boulders)
Medium to coarse-grained sand with numerous subangular to subrounded cobbles and boulders* (to ~2' dimension), tan-brown overall, medium dense to dense overall- caving and "belling" below 3'6", dry to slightly moist.

(*Approximately 60% >3").

APPENDIX B

LABORATORY TESTING PROGRAM

Geotechnical Soilutions Inc.

EXPANSION INDEX TEST, ASTM 4829 - 03

Project Name	SCE Circle City, Corona	Project No.	GS1076SCE	Date	08/07/10
Soil Type	Br. Sandy silt with trace of clay	Sample Loc.	B-1	Depth	0-5'
Tested By	VD	Max. Density & opt. moisture			131.0 / 9.3
"F" Fraction Passing No. 4 Sieve		98%			

Initial Moisture %, (80% +/- Optimum)	8.00
Remolded Wet Wt. & Tare	617.70
Tare	199.30
Net Wet Weight	418.40
Net Dry Weight = (net wet weight x 100) / 100 + moisture %	387.41
Wet Density (Wd) = net wet wt. / 3.3	126.79
Dry Density (Dd) = net dry wt. /3.3	117.40
Moisture Wt. (Ww) = Wd - Dd	9.39
Volume of Solids (Vs) = Dd / 168.48	0.697
Volume of Voids (Ve) = 1 - Vs	0.303
Saturation = (Ww x 100) / (62.4 x Ve)	**50**

Initial Reading, Date & Time	8/7/2010	3:30 PM	inches	0.259
Final Reading, Date & Time	8/8/2010	4:00 PM	inches	0.262
Expansion Index = 1000 x H x F				**3**

Calculated per ASTM if saturation is between 40 - 60%

EI50 = *EImeas - (50 - Smeas) 65 + EImeas / 220 - Smeas* (Corrected) 3

UBC Classification of Expansion

Expansion Index	Potential Expansion
0 - 20	Very Low
21 - 50	Low
51- 90	Medium
91 - 130	High
Above 130	Very High

Geotechnical Soilutions Inc.

EXPANSION INDEX TEST, ASTM 4829 - 03

Project Name	SCE Circle City Substation	Project No.	GS 1076	Date	12/05/11
Soil Type	Brown, Silty Sand	Sample Loc.	TR-1	Depth	2.5'-5'
Tested By	VD	Max. Density & opt. moisture			132.8 / 7.2
"F" Fraction Passing No. 4 Sieve		95%	Corrected Max		

Initial Moisture %, (80% +/- Optimum)				6.90
Remolded Wet Wt. & Tare				614.70
Tare				200.80
Net Wet Weight				413.90
Net Dry Weight = (net wet weight x 100) / 100 + moisture %				387.18
Wet Density (Wd) = net wet wt. / 3.3				125.42
Dry Density (Dd) = net dry wt. /3.3				117.33
Moisture Wt. (Ww) = Wd - Dd				8.10
Volume of Solids (Vs) = Dd / 168.48				0.696
Volume of Voids (Ve) = 1 - Vs				0.304
Saturation = (Ww x 100) / (62.4 x Ve)				**43**
Initial Reading, Date & Time	12/28/2011	9:15 AM	inches	0.260
Final Reading, Date & Time	12/29/2011	10:20 AM	inches	0.263
Expansion Index = 1000 x H x F				**3**
Calculated per ASTM if saturation is between 40 - 60%				
EI50 = *Elmeas - (50 - Smeas) 65 + Elmeas / 220 - Smeas*			(Corrected)	**0**

UBC Classification of Expansion

Expansion Index	Potential Expansion
0 - 20	**Very Low**
21 - 50	Low
51- 90	Medium
91 - 130	High
Above 130	Very High

AP Engineering & Testing, Inc.

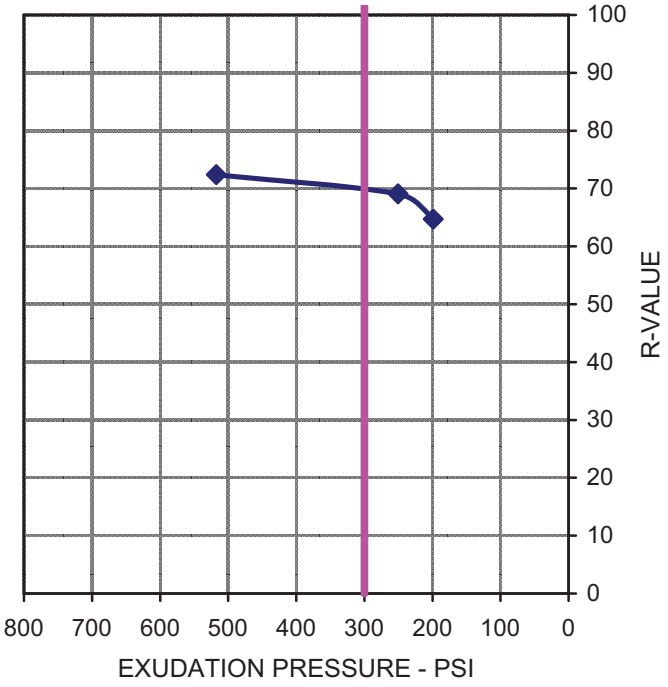
R-VALUE TEST DATA

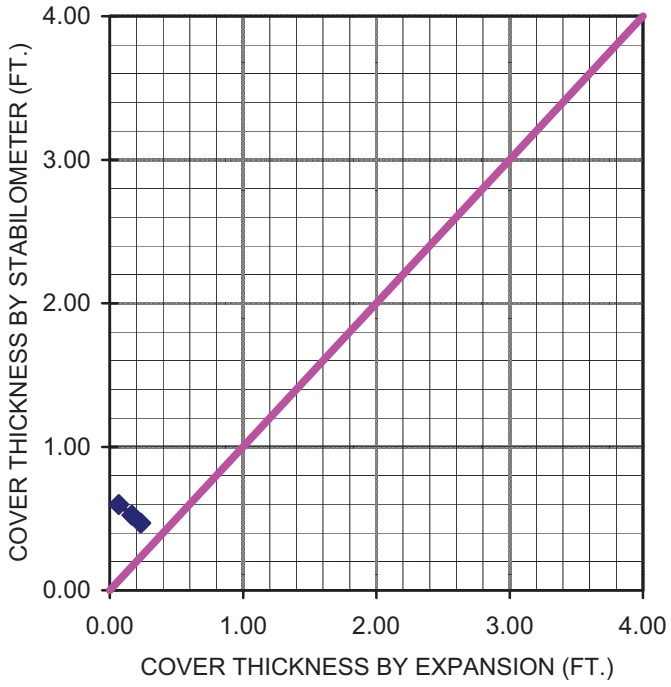
ASTM D2844

Project Name:	Circle City/Corona	Tested By:	ST	Date:	07/06/10
Project Number:	GS1076SCE	Computed By:	KM	Date:	07/08/10
Boring No.:	B-2	Checked By:	AP	Date:	01/19/11
Sample No.:	Bulk	Depth (ft.):	0-5		
Location:					
Soil Description:	Brown Sandy Silt				

Mold Number	A	B	C	
Water Added, g	21	13	18	
Compact Moisture(%)	10.6	9.8	10.3	
Compaction Gage Pressure, psi	170	200	180	
Exudation Pressure, psi	199	518	251	
Sample Height, Inches	2.4	2.4	2.4	
Gross Weight Mold, g	3058	3053	3056	
Tare Weight Mold, g	1970	1969	1970	
Net Sample Weight, g	1088	1084	1086	
Expansion, inchesx10^{-4}	2	7	5	
Stability 2,000 (160 psi)	20/36	16/29	18/31	
Turns Displacement	4.31	4.02	4.19	
R-Value Uncorrected	67	74	71	
R-Value Corrected	65	72	69	
Dry Density, pcf	124.2	124.6	124.3	
Traffic Index	8.0	8.0	8.0	
G.E. by Stability	0.60	0.47	0.52	
G.E. by Expansion	0.07	0.23	0.17	

R-VALUE		
	By Exudation:	70
	By Expansion:	N/A
	At Equilibrium: (by Exudation)	70
Remarks	Gf = 1.51, and 1.0 % Retained on the ¾"	





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AP Engineering & Testing, Inc.

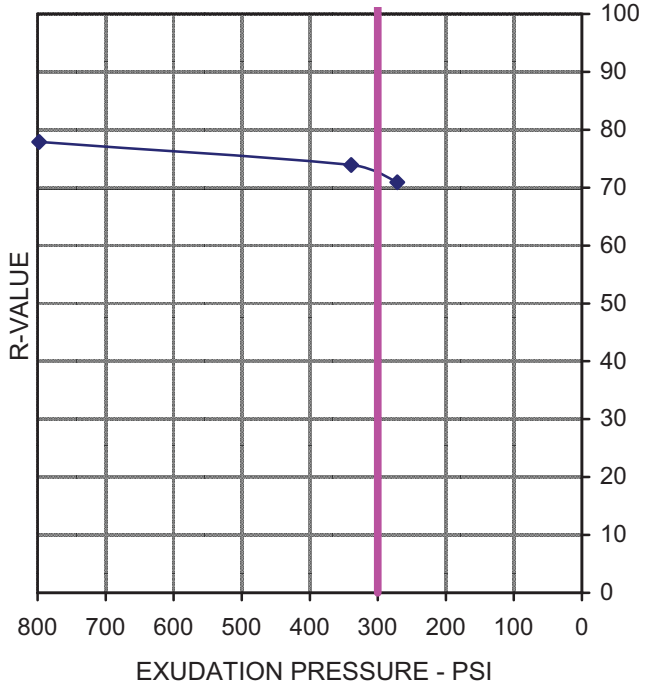
R-VALUE TEST DATA

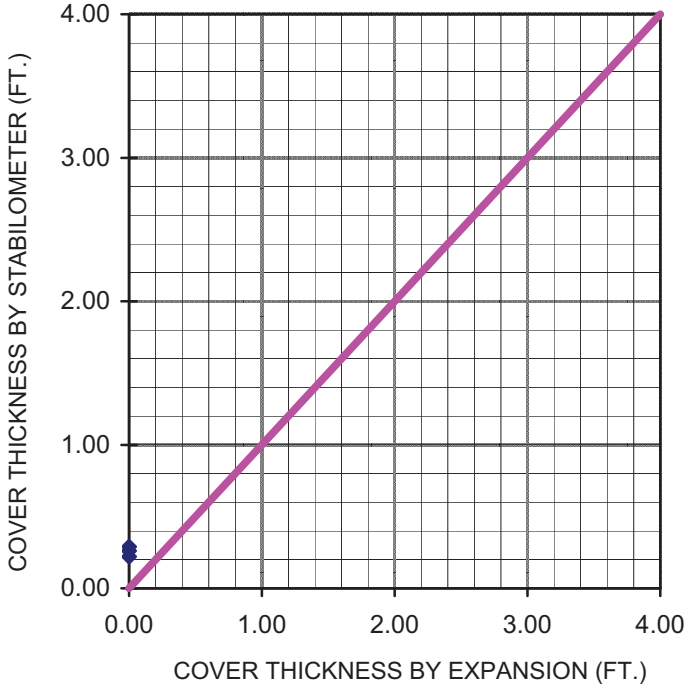
ASTM D2844

Project Name:	Circle City	Tested By:	ST	Date:	12/28/11
Project Number:	GS 1076	Computed By:	KM	Date:	01/05/12
Boring No.:	TR-1	Checked By:	AP	Date:	01/09/12
Sample No.:	-	Depth (ft.):	0-2.5		
Sample Type:	Bulk				
Soil Description:	Poorly-Graded Sand w/silt				

Mold Number	A	B	C	
Water Added, g	71	81	84	
Compact Moisture(%)	8.4	9.4	9.7	
Compaction Gage Pressure, psi	250	250	350	
Exudation Pressure, psi	798	339	271	
Sample Height, Inches	2.5	2.5	2.5	
Gross Weight Mold, g	3058	3063	3077	
Tare Weight Mold, g	1971	1968	1970	
Net Sample Weight, g	1087	1095	1107	
Expansion, inchesx10^{-4}	0	0	0	
Stability 2,000 (160 psi)	12/18	14/22	15/25	
Turns Displacement	5.59	5.54	5.53	
R-Value Uncorrected	78	74	71	
R-Value Corrected	78	74	71	
Dry Density, pcf	121.6	121.3	122.3	
Traffic Index	5.0	5.0	5.0	
G.E. by Stability	0.22	0.26	0.29	
G.E. by Expansion	0.00	0.00	0.00	

R-VALUE	By Exudation:	72
	By Expansion:	*N/A
	At Equilibrium: (by Exudation)	72
Remarks	Gf = 1.60, and 5.6 % Retained on the ¾" *Not Applicable	





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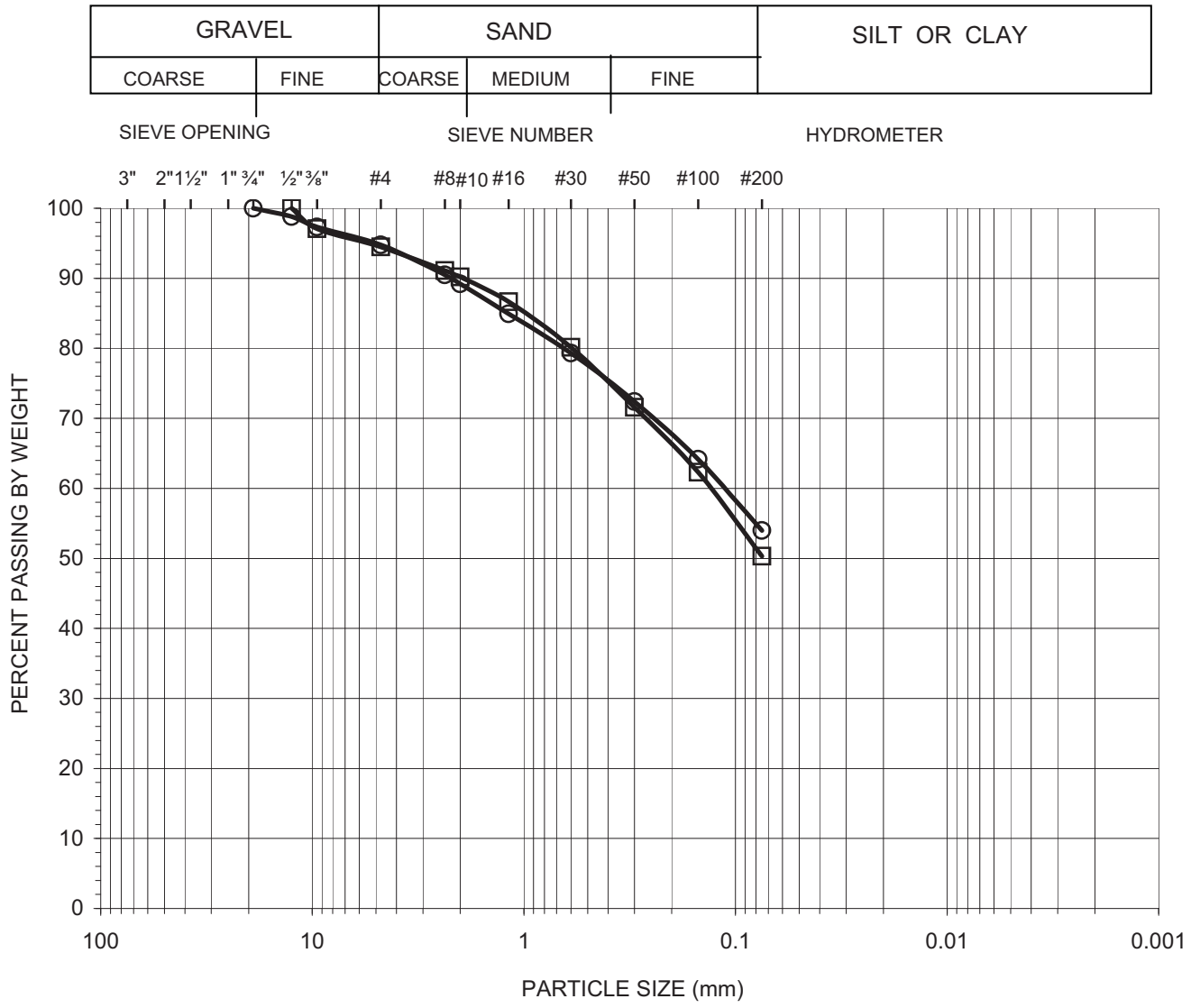
AP Engineering & Testing, Inc.

GRAIN SIZE DISTRIBUTION CURVE
ASTM D 422

Client Name:	Geotechnical Soilutions/SCE	Tested by:	ST	Date:	07/30/10
Project Name:	Circle City/Corona	Computed by:	KM	Date:	08/09/10
Project No.:	GS1076SCE	Checked by:	AP	Date:	08/12/10

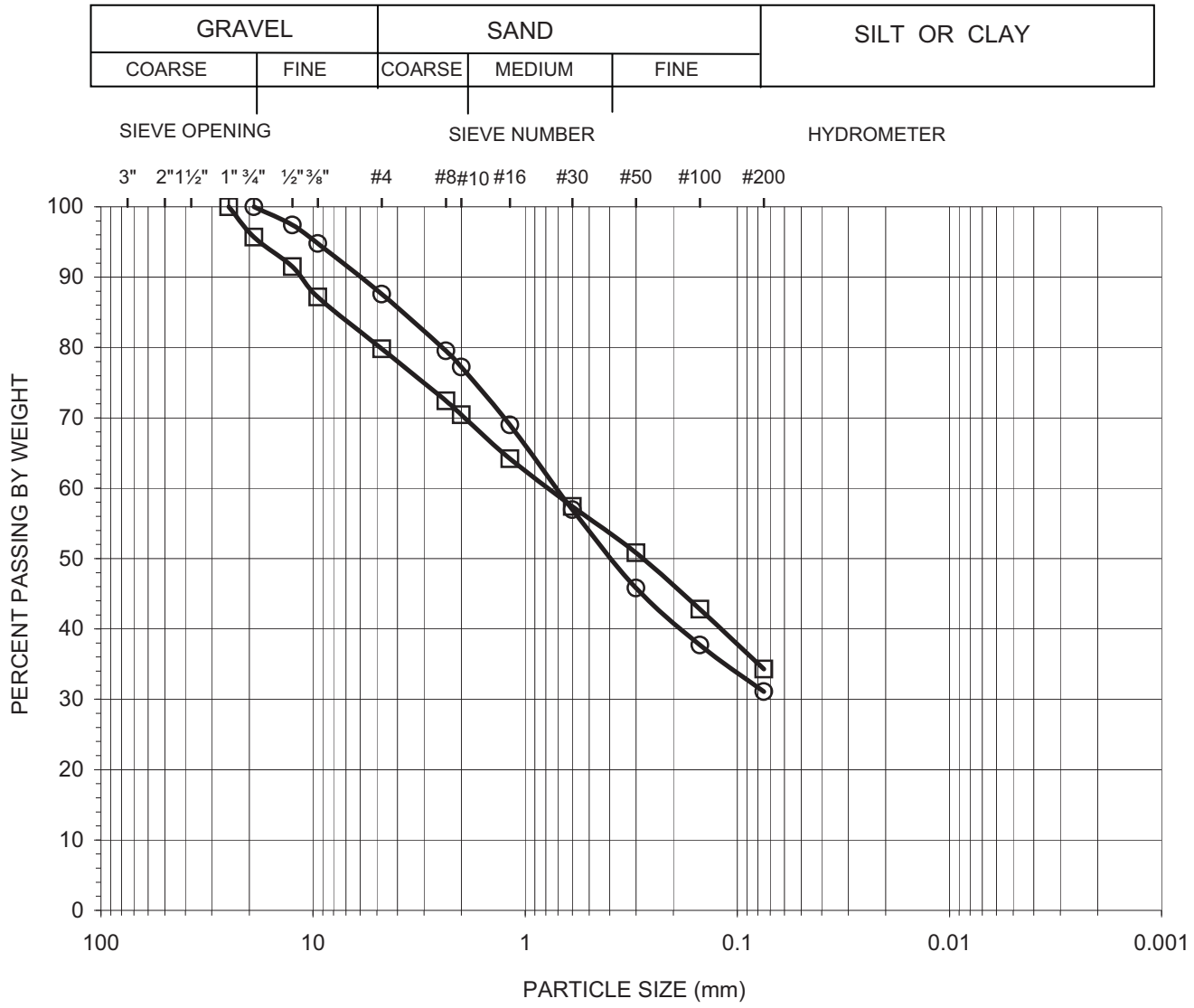


Symbol	Boring No.	Sample No.	Sample Depth (feet)	Percent			Atterberg Limits LL:PL:PI	Soil Type ASTM D 2487
				Gravel	Sand	Fines		
○	B-1	-	0-5	5	41	54	N/A	ML
□	B-2	-	0-5	6	44	50	N/A	ML

AP Engineering & Testing, Inc.

GRAIN SIZE DISTRIBUTION CURVE
ASTM D 422

Client Name:	Geotechnical Soilutions/SCE	Tested by:	ST	Date:	07/30/10
Project Name:	Circle City/Corona	Computed by:	KM	Date:	08/09/10
Project No.:	GS1076SCE	Checked by:	AP	Date:	08/12/10

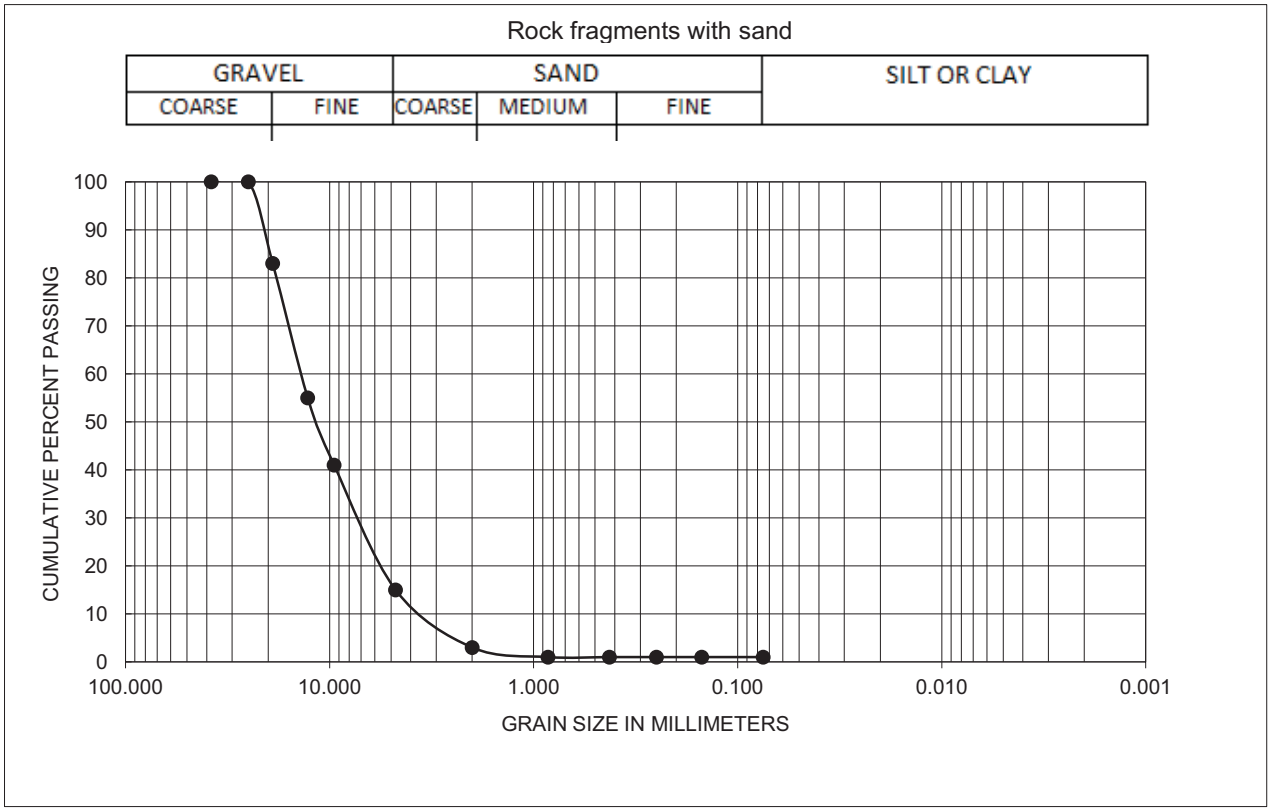


Symbol	Boring No.	Sample No.	Sample Depth (feet)	Percent			Atterberg Limits LL:PL:PI	Soil Type ASTM D 2487
				Gravel	Sand	Fines		
○	B-3	-	0-5	12	57	31	N/A	SM
□	B-5	-	0-5	20	46	34	N/A	SM

GEOTECHNICAL SOILUTIONS, INC.

GRAIN SIZE DISTRIBUTION CURVE, ASTM D 422

Project Name:	SCE Circle City Substation	Sampled /Date:	EFH 12/12/11
Location:	B-8	Tested /Date:	VD 12/28/11
Description	Rock fragments with sand	Checked /Date:	MAK 01/08/12
Depth:	10'	Project Number:	GS 1076

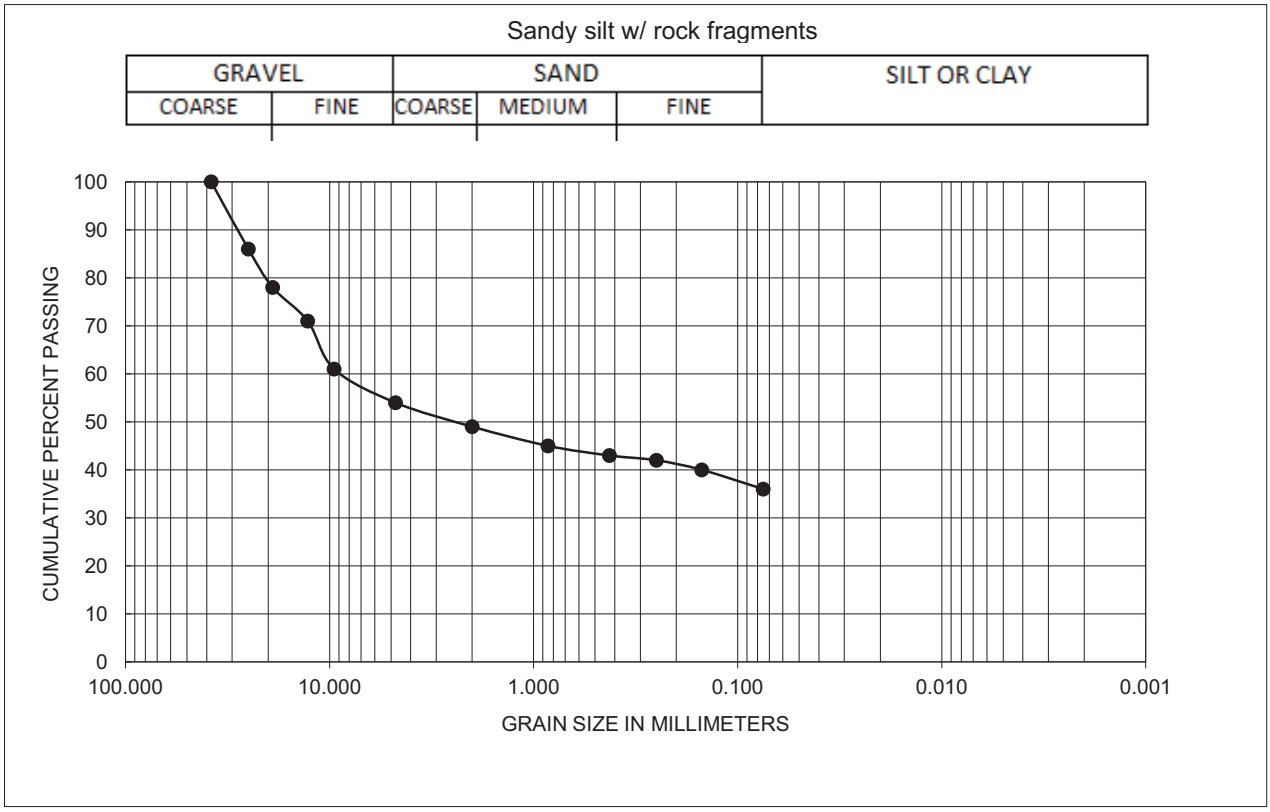


SIEVE SIZE		PERCENT RETAINED	PERCENT PASSING	GRADING LIMITS		REMARKS
(in)	(mm)			MIN	MAX	
1.5"	**38.00**	0	***100***			
1"	**25.00**	0	***100***		100	
3/4"	**19.00**	17	***83***		100	
1/2"	**12.80**	45	***55***		100	
3/8"	**9.50**	59	***41***		100	
#4	**4.75**	85	***15***		100	
#10	**2.00**	97	***3***		100	
#20	**0.85**	99	***1***		100	
#40	**0.43**	99	***1***		100	
#60	**0.25**	99	***1***		100	
#100	**0.15**	99	***1***		100	
#200	**0.075**	99	***1***		100	

GEOTECHNICAL SOILUTIONS, INC.

GRAIN SIZE DISTRIBUTION CURVE, ASTM D 422

Project Name:	SCE Circle City Substation	Sampled /Date:	EFH 12/12/11
Location:	B-8	Tested /Date:	VD 12/28/11
Description	Sandy silt w/ rock fragments	Checked /Date:	MAK 01/08/12
Depth:	20'	Project Number:	GS 1076

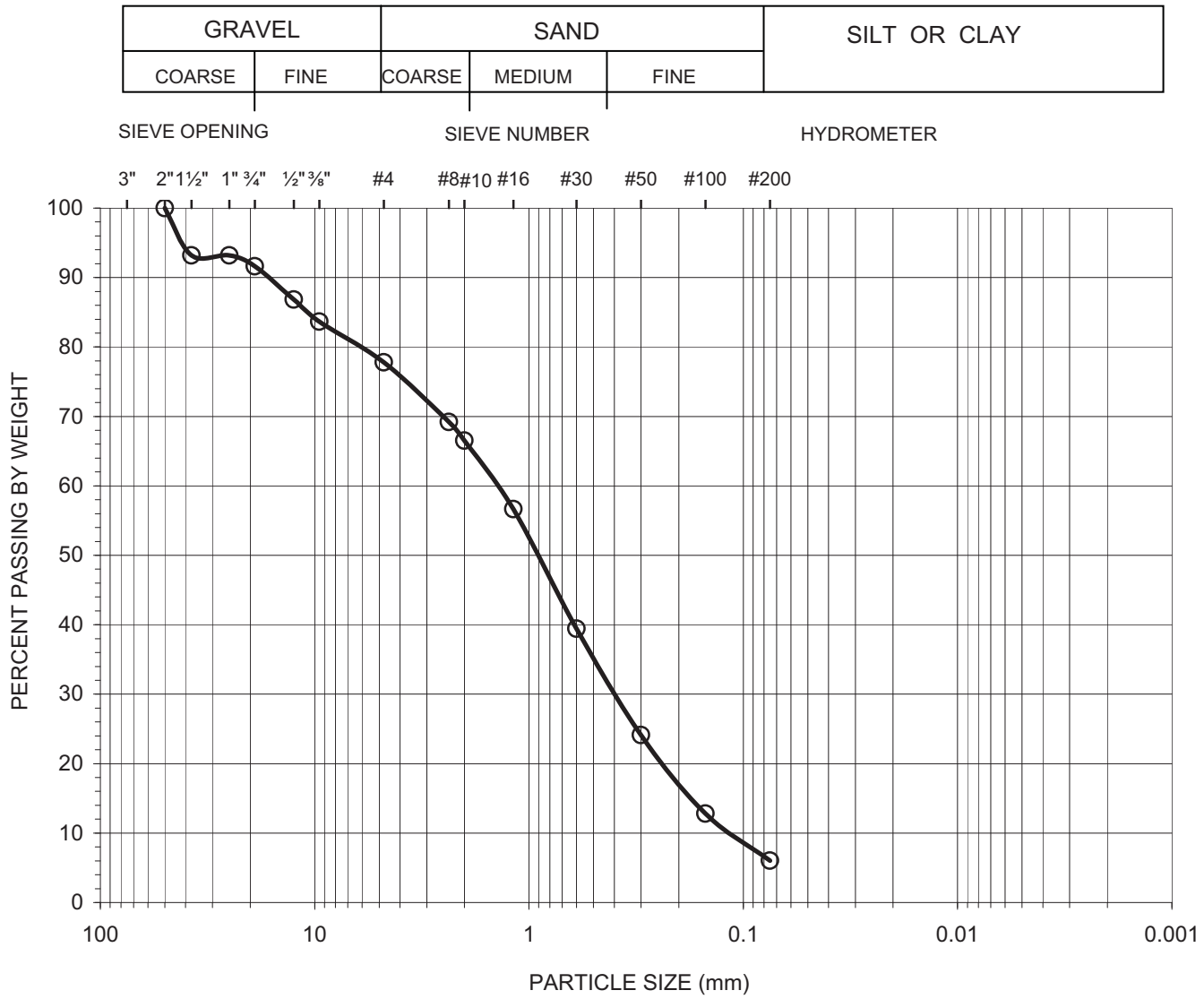


SIEVE SIZE		PERCENT RETAINED	PERCENT PASSING	GRADING LIMITS		REMARKS
(in)	(mm)			MIN	MAX	
1.5"	**38.00**	0	***100***			
1"	**25.00**	14	***86***		100	
3/4"	**19.00**	22	***78***		100	
1/2"	**12.80**	29	***71***		100	
3/8"	**9.50**	39	***61***		100	
#4	**4.75**	46	***54***		100	
#10	**2.00**	51	***49***		100	
#20	**0.85**	55	***45***		100	
#40	**0.43**	57	***43***		100	
#60	**0.25**	58	***42***		100	
#100	**0.15**	60	***40***		100	
#200	**0.075**	64	***36***		100	

AP Engineering & Testing, Inc.

GRAIN SIZE DISTRIBUTION CURVE
ASTM D 422

Client Name:	Geotechnical Soilution, Inc./SCE	Tested by:	CC	Date:	12/30/11
Project Name:	Circle City	Computed by:	KM	Date:	01/05/12
Project No.:	GS 1076	Checked by:	AP	Date:	01/09/12

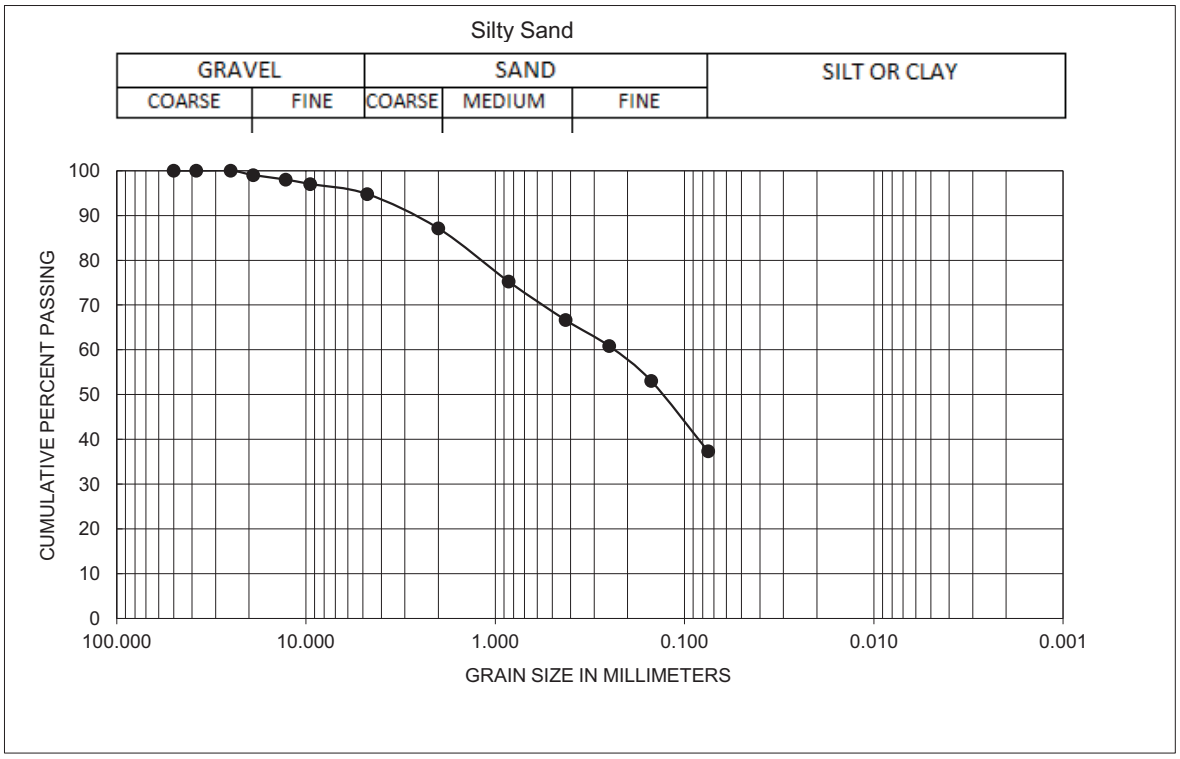


Symbol	Boring No.	Sample Type	Sample Depth (ft.)	Percent			Atterberg Limits LL:PL:PI	Soil Symbol ASTM D 2487
				Gravel	Sand	Fines		
○	TR-1	Bulk	0-2.5	22	72	6	N/A	SP-SM

GEOTECHNICAL SOILUTIONS, INC.

GRAIN SIZE DISTRIBUTION CURVE, ASTM D 422

Project Name:	SCE Circle City Substation	Sampled /Date:	EFH 12/12/11
Project Number:	GS 1076	Tested /Date:	VD 12/28/11
Description	Silty Sand	Checked /Date:	MAK 01/08/12
Location	TR-1	Depth	2.5-5'

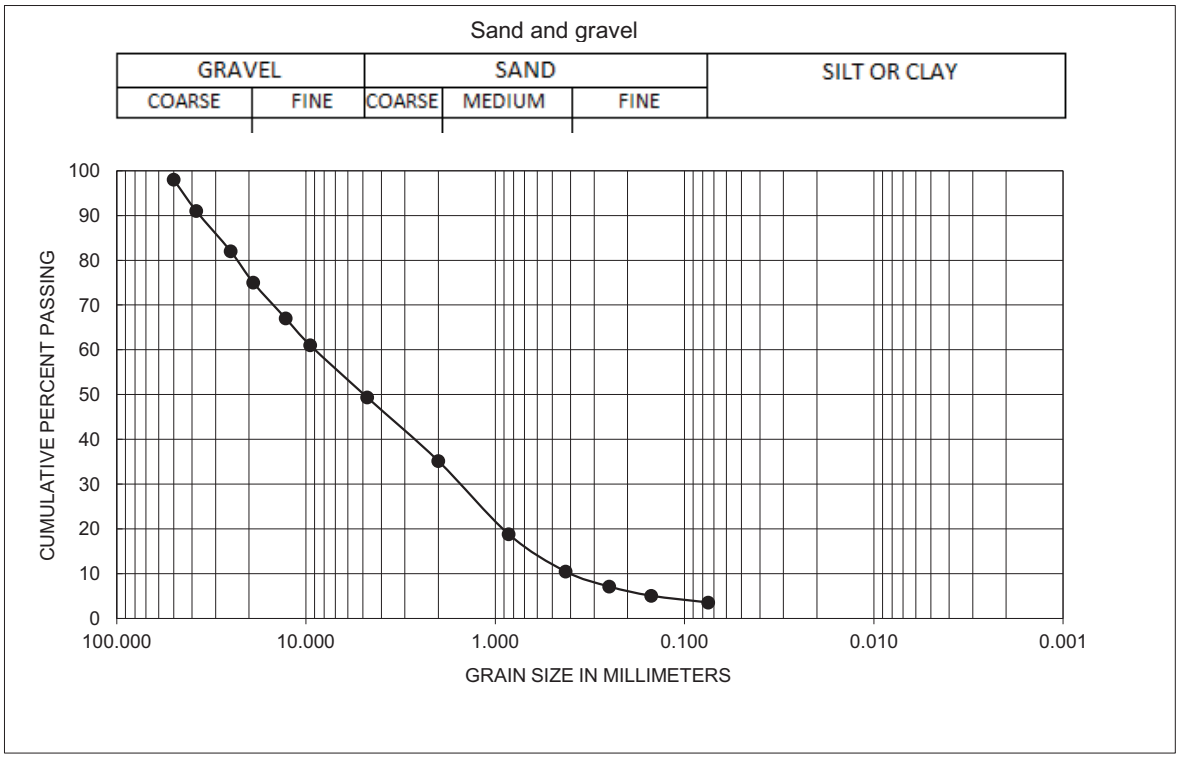


SIEVE SIZE		PERCENT RETAINED	PERCENT PASSING	GRADING LIMITS		REMARKS
(in)	(mm)			MIN	MAX	
2"	**50.00**	0	**100**		100	
1.5"	**38.00**	0	***100***		100	
1"	**25.00**	0	***100***		100	
3/4"	**19.00**	1	***99***		100	
1/2"	**12.80**	2	***98***		100	
3/8"	**9.50**	3	***97***		100	
#4	**4.75**	5	***95***		100	
#10	**2.00**	13	***87***		100	
#20	**0.85**	25	***75***		100	
#40	**0.43**	33	***67***		100	
#60	**0.25**	39	***61***		100	
#100	**0.15**	47	***53***		100	
#200	**0.075**	63	***37***		100	

GEOTECHNICAL SOILUTIONS, INC.

GRAIN SIZE DISTRIBUTION CURVE, ASTM D 422

Project Name:	SCE Circle City Substation	Sampled /Date:	EFH 12/12/11
Project Number:	GS 1076	Tested /Date:	VD 12/28/11
Description	Sand and gravel	Checked /Date:	MAK 01/08/12
Location	TR-1	Depth	5-12'



SIEVE SIZE		PERCENT RETAINED	PERCENT PASSING	GRADING LIMITS		REMARKS
(in)	(mm)			MIN	MAX	
2"	**50.00**	**2**	**98**			
1.5"	**38.00**	9	***91***			
1"	**25.00**	18	***82***		100	
3/4"	**19.00**	25	***75***		100	
1/2"	**12.80**	33	***67***		100	
3/8"	**9.50**	39	***61***		100	
#4	**4.75**	51	***49***		100	
#10	**2.00**	65	***35***		100	
#20	**0.85**	81	***19***		100	
#40	**0.43**	90	***10***		100	
#60	**0.25**	93	***7***		100	
#100	**0.15**	95	***5***		100	
#200	**0.075**	96	***4***		100	

GEOTECHNICAL SOILUTION, INC

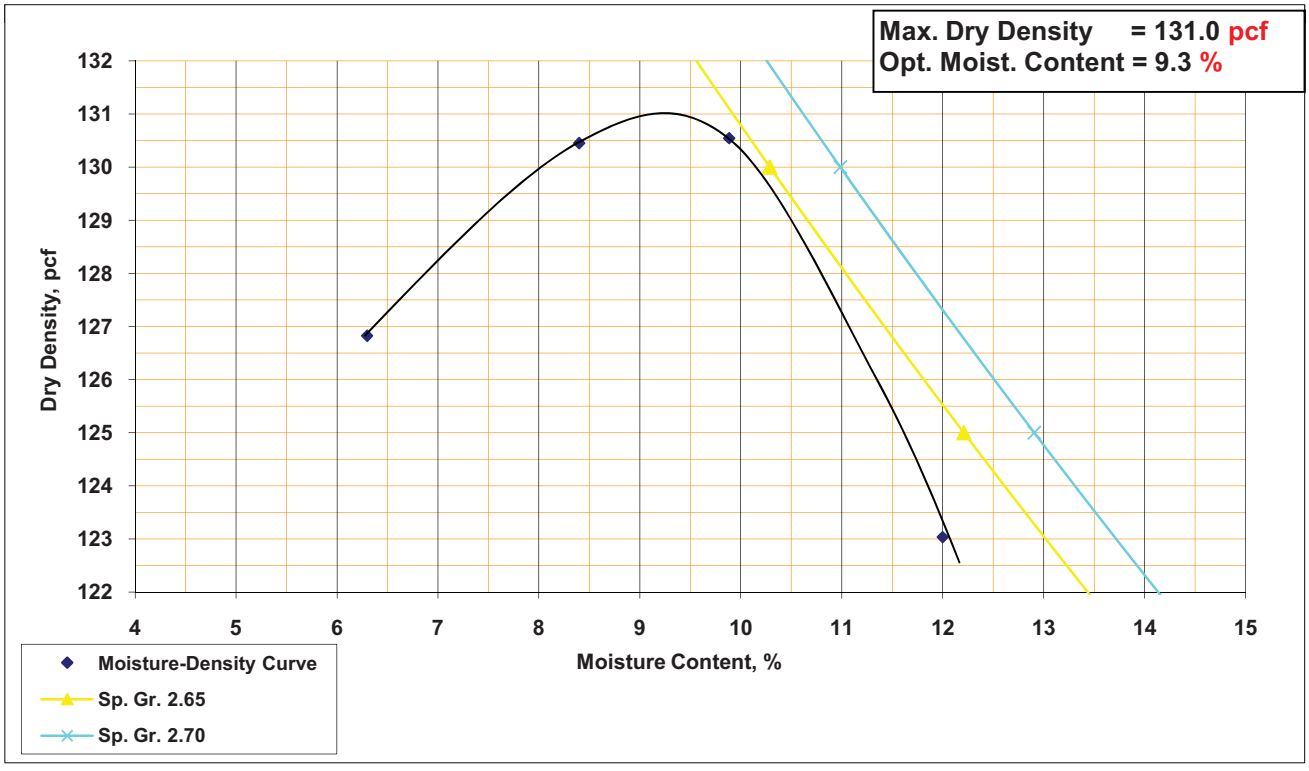
Laboratory Compaction Charactristic of Soil Using Modified Effort ASTM D1557

Project: **SCE Circle City**
Address Corona

Job No.: **GS-1076SCE**
Date 8/7/2010
Date Sampled: 7/14/2010
Date Tested: 8/7/2010
Tested By: VD
Sampled By: GSI

Reference No:
Material Source:
Sample Location: B-1
Depth: 0-5'
Sample Description: Brown sandy silt
Remarks: *Method "B"*

Volume of Mold	0.0333		**0.033**	
Weight of Wet Soil + Mold	4410.50	4325.10	4379.70	4280.00
Weight of Mold	2241.60	2241.60	2241.60	2241.60
Weight of Wet Soil	4.78	4.59	4.71	4.49
Wet Density	**143.4**	**137.8**	**141.4**	**134.8**
Moisture Content Determination:				
Wet Weight + Tare	455.0	481.8	477.8	475.9
Dry Weight + Tare	439.6	460.6	462.8	464.5
Weight Loss	15.4	21.2	15.0	11.4
Weight of Tare	283.8	283.8	283.8	283.8
Weight of Dry Soil	155.8	176.8	179.0	180.7
Moisture Content, %	**9.9**	**12.0**	**8.4**	**6.3**
Dry Density, pcf	**130.5**	**123.0**	**130.5**	**126.8**



AP Engineering & Testing, Inc.

COMPACTION TEST

Client:	Geotechnical Soilutions/SCE			AP Number:	10-0917
Project Name:	Circle City/Corona	Tested By:	JT	Date:	09/14/10
Project No. :	GS1076SCE	Calculated By:	KM	Date:	09/15/10
Boring No.:	B-2	Checked By:	AP	Date:	09/15/10
Sample No. :	Bulk	Depth (ft):	0-5		
Visual Sample Description:	Brown Sandy Silt				

Compaction Method	[X]	ASTM D1557	
	[ ]	ASTM D698	
Preparation Method	[X]	Moist	
	[ ]	Dry	
METHOD	A		
MOLD VOLUME (CU.FT)	0.0333		

Trial No.	1	2	3	4	5	6
Wt. Comp. Soil + Mold (gm.)	3848	3875	3787	3855		
Wt. of Mold (gm.)	1748	1748	1748	1748		
Net Wt. of Soil (gm.)	2100	2127	2039	2107		
Container No.						
Wt. of Container (gm.)	198.20	180.29	194.41	187.18		
Wet Wt. of Soil + Cont. (gm.)	638.03	821.40	639.46	701.06		
Dry Wt. of Soil + Cont. (gm.)	604.54	758.03	611.55	646.00		
Moisture Content (%)	8.24	10.97	6.69	12.00		
Wet Density (pcf)	138.89	140.67	134.85	139.33		
Dry Density (pcf)	128.31	126.77	126.40	124.40		

Maximum Dry Density (pcf)	**129.0**	Optimum Moisture Content (%)	**10.0**
Maximum Dry Density w/ Rock Correction (pcf)	**131.7**	Optimum Moisture Content w/ Rock Correction (%)	**9.8**

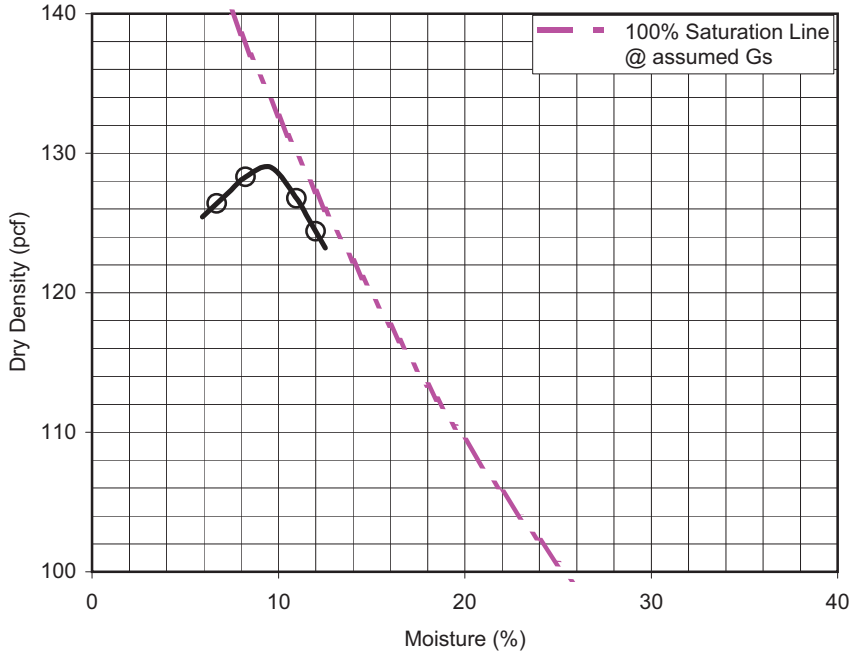
Assumed Specific Gravity = 2.70

PROCEDURE USED

[X] *METHOD A: Percent of Oversize:* *8.8%*
Soil Passing No. 4 (4.75 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
May be used if No.4 retained < 20%

[ ] *METHOD B: Percent of Oversize:* *NA*
Soil Passing 3/8 in. (9.5 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
Use if + No.4 > 20% and - 3/8 in < 20%

[ ] *METHOD C: Percent of Oversize:* *NA*
Soil Passing 3/4 in. (19.0 mm) Sieve
Mold : 6 in. (152.4 mm) diameter
Layers : 5 (Five)
Blows per layer : 56 (fifty-six)
Use if + 3/8 in >20% and +3/4 in <30%



GEOTECHNICAL SOILUTION, INC

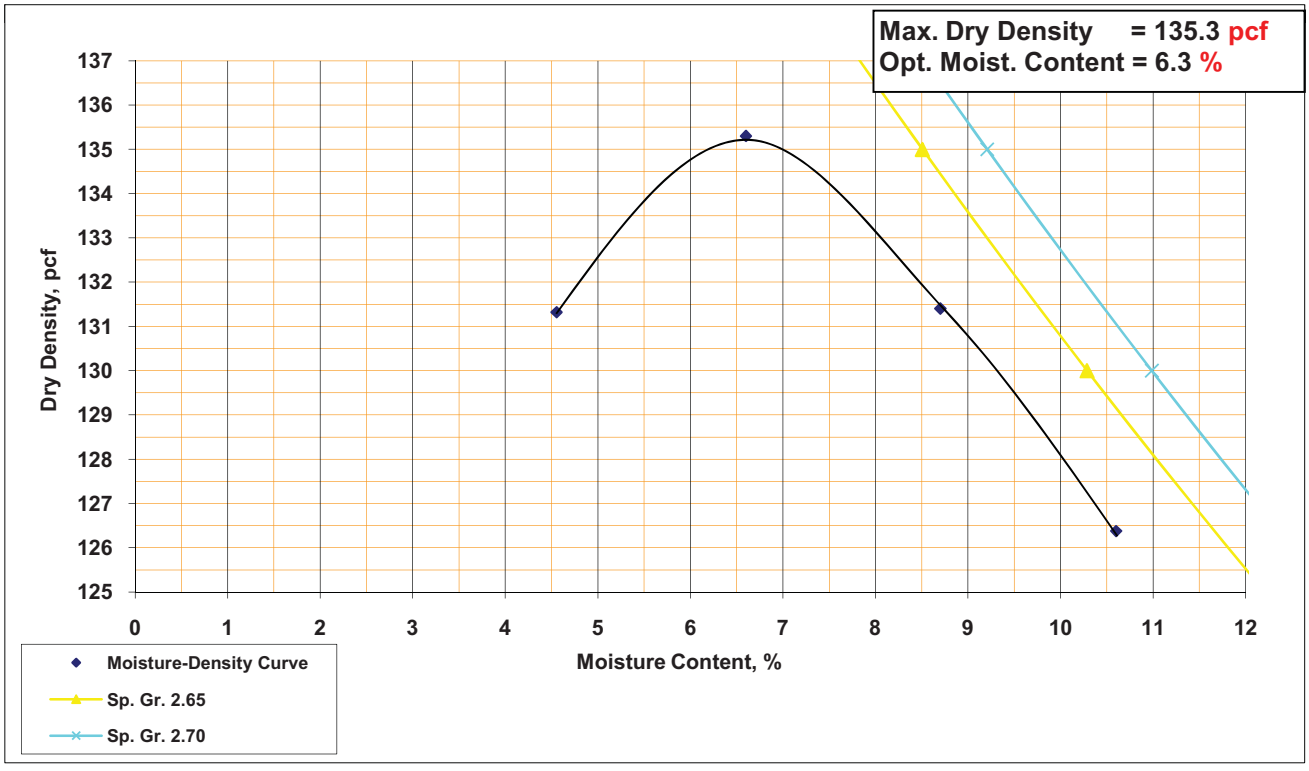
Laboratory Compaction Charactristic of Soil Using Modified Effort ASTM D1557

Project: **SCE Circle City**
Address Corona

Job No.: **GS-1076SCE**
Date 8/7/2010
Date Sampled: 7/14/2010
Date Tested: 8/7/2010
Tested By: VD
Sampled By: GSI

Reference No:
Material Source:
Sample Location: B-3
Depth: 0-5'
Sample Description: Brown silty sand with gravel
Remarks: *Method "B"*

Volume of Mold	0.0333		**0.033**	
Weight of Wet Soil + Mold	4317.60	4422.40	4401.30	4355.00
Weight of Mold	2241.60	2241.60	2241.60	2241.60
Weight of Wet Soil	4.58	4.81	4.76	4.66
Wet Density	**137.3**	**144.2**	**142.8**	**139.8**
Moisture Content Determination:				
Wet Weight + Tare	465.2	482.4	487.3	494.5
Dry Weight + Tare	457.3	470.1	471.0	474.3
Weight Loss	7.9	12.3	16.3	20.2
Weight of Tare	283.8	283.8	283.8	283.8
Weight of Dry Soil	173.5	186.3	187.2	190.5
Moisture Content, %	**4.6**	**6.6**	**8.7**	**10.6**
Dry Density, pcf	**131.3**	**135.3**	**131.4**	**126.4**



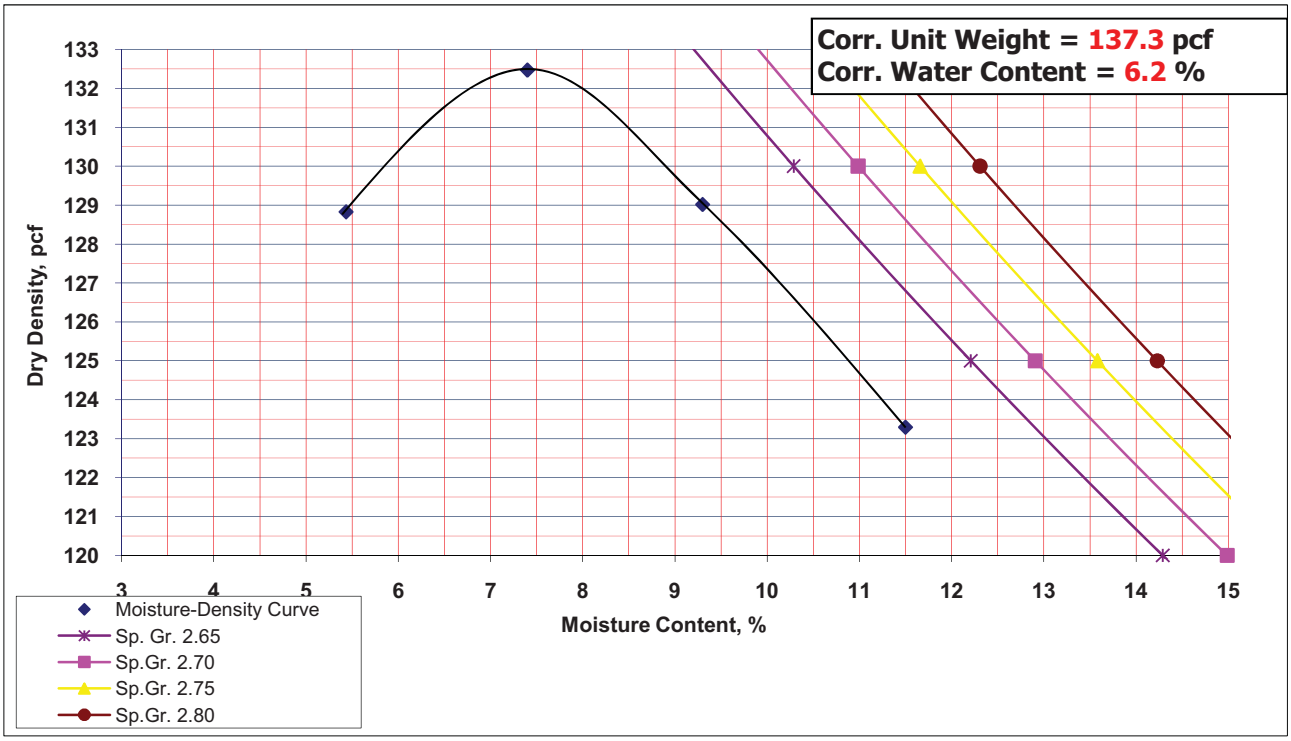
GEOTECHNICAL SOILUTION INC

Project:	SCE Circle City	Job No.:	GS1076SCE
Site Loc.	Corona	Date Sampled:	7/14/2010
		Date Tested:	8/7/2010
		Tested By:	Tech
Depth:	1-5'	Sampled By:	G.S.I.
Material Source:			
Sample Location:	B-4		
Sample Description:	Brown sandy silt with gravel		
Ramarks:	*% Passing 3/8" =* **82.4**		

Volume of Mold	**0.0333**		0.075	
Weight of Wet Soil + Mold	4295.30	4392.70	4373.70	4320.20
Weight of Mold	2241.60	2241.60	2241.60	2241.60
Weight of Wet Soil	4.53	4.74	4.70	4.58
Wet Density	**135.8**	**142.3**	**141.0**	**137.5**
Moisture Content Determination:				
Wet Weight + Tare	427.4	485.7	479.9	495.8
Dry Weight + Tare	420.0	471.8	463.2	473.9
Weight Loss	7.4	13.9	16.7	21.9
Weight of Tare	283.8	283.8	283.8	283.8
Weight of Dry Soil	136.2	188.0	179.4	190.1
Moisture Content, %	**5.4**	**7.4**	**9.3**	**11.5**
Dry Density, pcf	**128.8**	**132.5**	**129.0**	**123.3**

Oversize Particles Gm = *2.65* ***Maximum Dry Density, pcf =*** *132.5*

Oversize Particles Water Content = *0.4%* ***Optimum Moisture Content =*** *7.4%*



AP Engineering & Testing, Inc.

COMPACTION TEST

Client:	Geotechnical Soilutions/SCE			AP Number:	10-0917
Project Name:	Circle City/Corona	Tested By:	JT	Date:	09/14/10
Project No. :	GS1076SCE	Calculated By:	KM	Date:	09/15/10
Boring No.:	B-5	Checked By:	AP	Date:	09/15/10
Sample No. :	Bulk	Depth (ft):	0-5		
Visual Sample Description:	Brown Silty Sand				

Compaction Method	X	ASTM D1557	
		ASTM D698	
Preparation Method	X	Moist	
		Dry	

METHOD	A
MOLD VOLUME (CU.FT)	0.0333

Trial No.	1	2	3	4	5	6
Wt. Comp. Soil + Mold (gm.)	3779	3877	3884	3831		
Wt. of Mold (gm.)	1748	1748	1748	1748		
Net Wt. of Soil (gm.)	2031	2129	2136	2083		
Container No.						
Wt. of Container (gm.)	192.76	152.54	195.15	182.54		
Wet Wt. of Soil + Cont. (gm.)	660.48	823.48	916.28	1055.88		
Dry Wt. of Soil + Cont. (gm.)	638.08	779.43	851.97	964.75		
Moisture Content (%)	5.03	7.03	9.79	11.65		
Wet Density (pcf)	134.33	140.81	141.27	137.78		
Dry Density (pcf)	127.89	131.56	128.67	123.40		

Maximum Dry Density (pcf)	**132.0**	Optimum Moisture Content (%)	**8.0**
Maximum Dry Density w/ Rock Correction (pcf)	**136.3**	Optimum Moisture Content w/ Rock Correction (%)	**7.5**

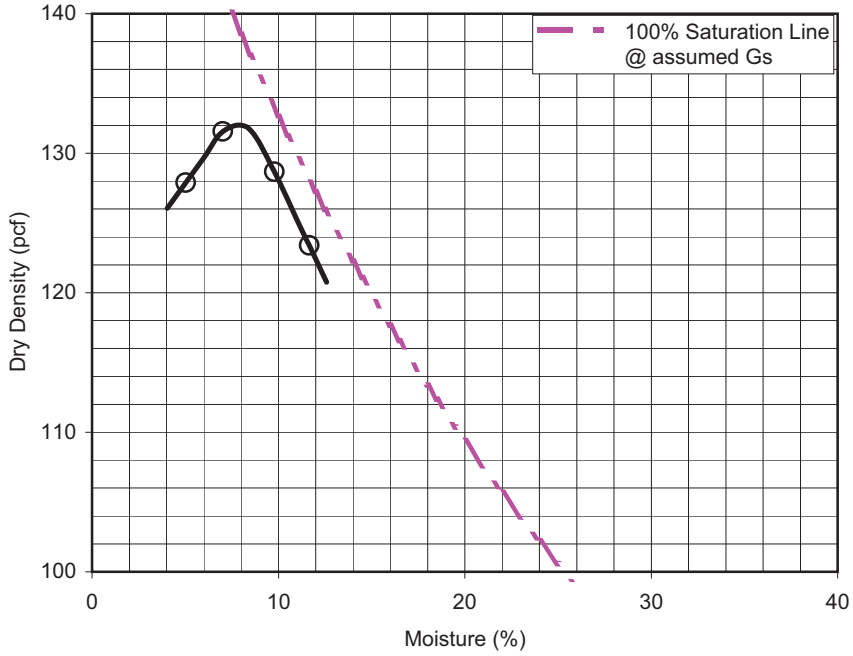
Assumed Specific Gravity = 2.70

PROCEDURE USED

[X] *METHOD A: Percent of Oversize:* *14.4%*
Soil Passing No. 4 (4.75 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
May be used if No.4 retained < 20%

[ ] *METHOD B: Percent of Oversize:* *NA*
Soil Passing 3/8 in. (9.5 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
Use if + No.4 > 20% and - 3/8 in < 20%

[ ] *METHOD C: Percent of Oversize:* *NA*
Soil Passing 3/4 in. (19.0 mm) Sieve
Mold : 6 in. (152.4 mm) diameter
Layers : 5 (Five)
Blows per layer : 56 (fifty-six)
Use if + 3/8 in >20% and +3/4 in <30%



AP Engineering & Testing, Inc.

COMPACTION TEST

Client:	Geotechnical Soilutions, Inc./SCE			AP Number:	11-1244
Project Name:	Circle City	Tested By:	JT	Date:	12/29/11
Project No. :	GS 1076	Calculated By:	KM	Date:	01/05/12
Boring No.:	TR-1	Checked By:	AP	Date:	01/05/12
Sample Type:	Bulk	Depth (ft):	0-2.5		

Visual Sample Description: Poorly-Graded Sand w/silt

METHOD	B	Compaction Method	[X] ASTM D1557
MOLD VOLUME (CU.FT)	0.0333		[ ] ASTM D698
		Preparation Method	[X] Moist
			[ ] Dry

Trial No.	1	2	3	4	5	6
Wt. Comp. Soil + Mold (gm.)	3608	3681	3738	3742		
Wt. of Mold (gm.)	1731	1731	1731	1731		
Net Wt. of Soil (gm.)	1877	1950	2007	2011		
Container No.						
Wt. of Container (gm.)	100.98	102.59	104.25	105.88		
Wet Wt. of Soil + Cont. (gm.)	519.98	502.76	575.53	588.31		
Dry Wt. of Soil + Cont. (gm.)	506.10	479.99	538.23	542.54		
Moisture Content (%)	3.43	6.03	8.59	10.48		
Wet Density (pcf)	124.14	128.97	132.74	133.02		
Dry Density (pcf)	120.03	121.63	122.23	120.40		

Maximum Dry Density (pcf)	**122.5**	Optimum Moisture Content (%)	**8.0**
Maximum Dry Density w/ Rock Correction (pcf)	**128.4**	Optimum Moisture Content w/ Rock Correction (%)	**7.1**

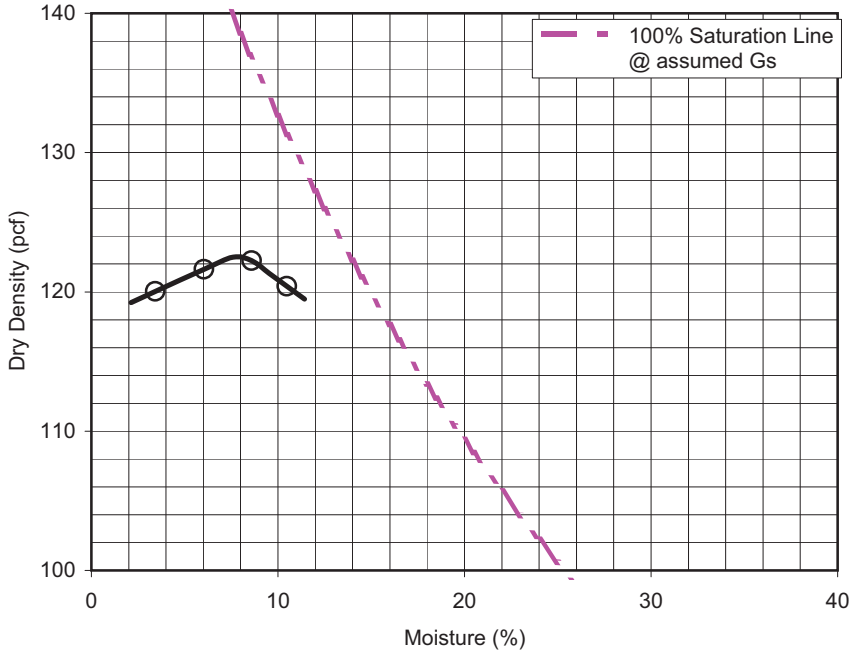
Assumed Specific Gravity = 2.70

PROCEDURE USED

[ ] *METHOD A: Percent of Oversize:* *NA*
Soil Passing No. 4 (4.75 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
May be used if No.4 retained < 25%

[X] *METHOD B: Percent of Oversize:* *16.8%*
Soil Passing 3/8 in. (9.5 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
Use if + No.4 > 25% and - 3/8 in < 25%

[ ] *METHOD C: Percent of Oversize:* *NA*
Soil Passing 3/4 in. (19.0 mm) Sieve
Mold : 6 in. (152.4 mm) diameter
Layers : 5 (Five)
Blows per layer : 56 (fifty-six)
Use if + 3/8 in >25% and +3/4 in <30%



GEOTECHNICAL SOILUTION, INC

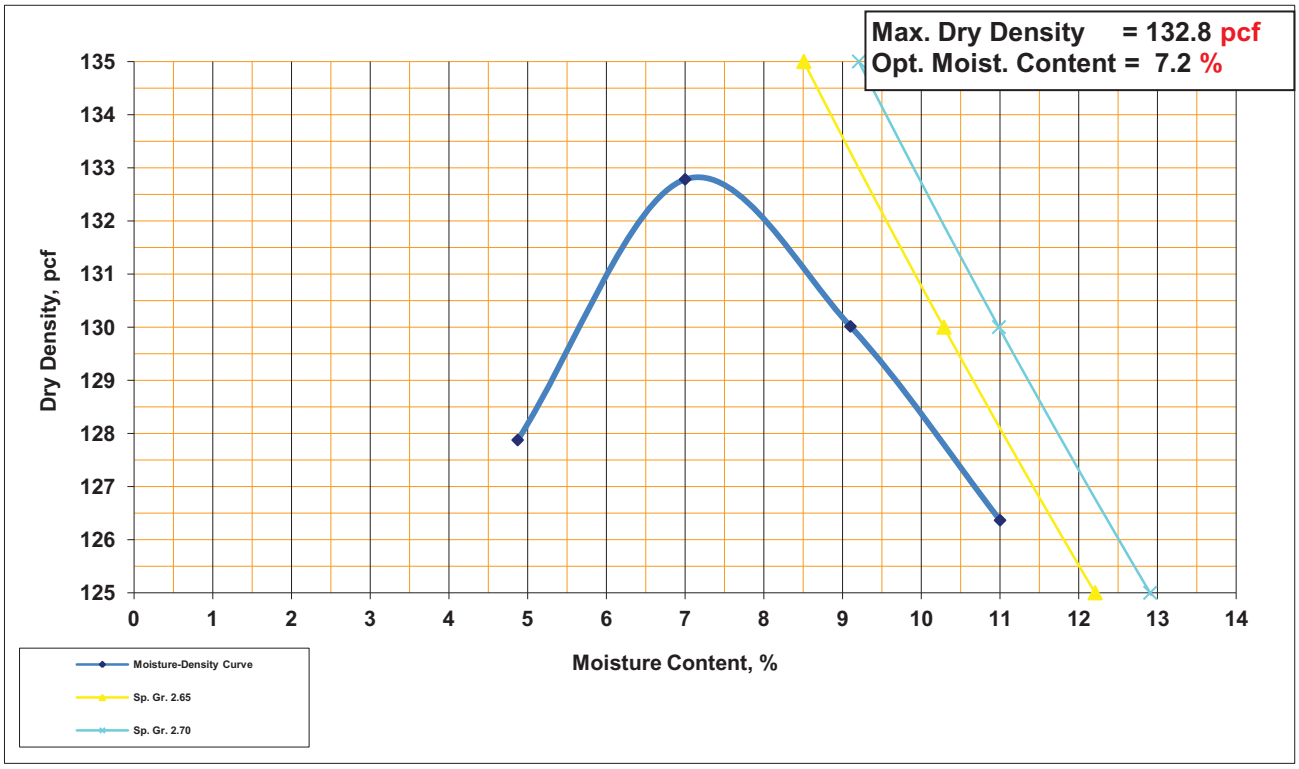
Laboratory Compaction Characteristic of Soil Using Modified Effort ASTM D1557

Project: **SCE Circle City Substation**
Address Corona

Job No.: **GS 1076**
Date 12/30/2011
Date Sampled: 12/12/2011
Date Tested: 12/28/2011
Tested By: VD
Sampled By: EFH

Sample Location: TR-1
Depth: 2.5'-5'
Sample Description: Silty Sand
Method: "B"

Volume of Mold	0.0333		**0.033**	
Weight of Wet Soil + Mold	4269.30	4389.80	4386.30	4362.40
Weight of Mold	2241.60	2241.60	2241.60	2241.60
Weight of Wet Soil	4.47	4.74	4.73	4.68
Wet Density	**134.1**	**142.1**	**141.8**	**140.3**
Moisture Content Determination:				
Wet Weight + Tare	700.4	749.4	772.5	767.7
Dry Weight + Tare	689.0	730.1	746.0	736.7
Weight Loss	11.4	19.3	26.5	31.0
Weight of Tare	455.1	455.1	455.1	455.1
Weight of Dry Soil	233.9	275.0	290.9	281.6
Moisture Content, %	**4.9**	**7.0**	**9.1**	**11.0**
Dry Density, pcf	**127.9**	**132.8**	**130.0**	**126.4**



GEOTECHNICAL SOILUTION INC

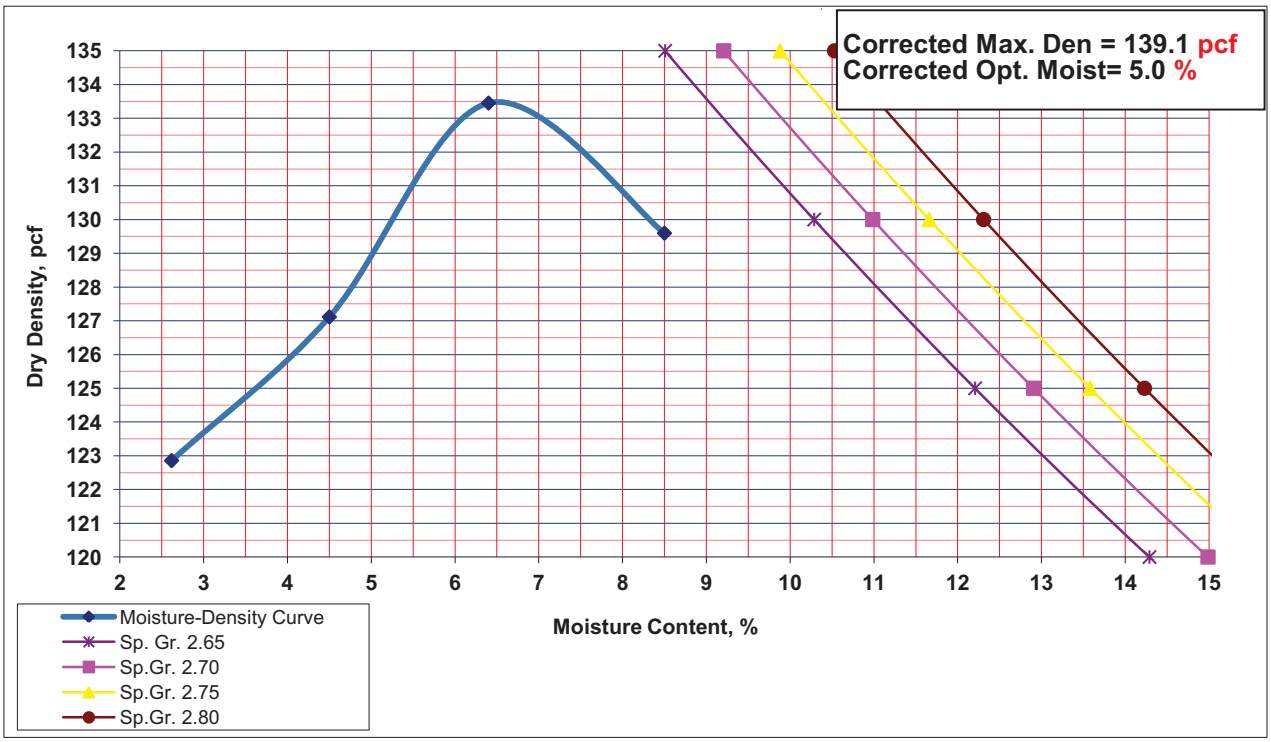
Project: SCE Circle City Substation
Site Loc. Corona

Job No.: GS 1076
Date Sampled: 12/12/2011
Date Tested: 12/28/2011
Tested By: VD
Sampled By: EFH

Depth: 5-12'
Sample Location: TR-1
Sample Description: Gravelly Sand
Remarks: *% Passing 3/8" =* **75.5**
Method **"C"**

Volume of Mold	0.0333		**0.075**	
Weight of Wet Soil + Mold	7089.40	7319.40	7631.00	7584.00
Weight of Mold	2800.40	2800.40	2800.40	2800.40
Weight of Wet Soil	9.46	9.96	10.65	10.55
Wet Density	**126.1**	**132.8**	**142.0**	**140.6**
Moisture Content Determination:				
Wet Weight + Tare	526.9	541.7	595.0	607.3
Dry Weight + Tare	520.7	530.6	576.3	582.0
Weight Loss	6.2	11.1	18.7	25.3
Weight of Tare	283.8	283.8	283.8	283.8
Weight of Dry Soil	236.9	246.8	292.5	298.2
Moisture Content, %	**2.6**	**4.5**	**6.4**	**8.5**
Dry Density, pcf	**122.9**	**127.1**	**133.5**	**129.6**

Assumed Oversize Particles Gm = *2.56* ***Maximum Dry Density, pcf =*** *133.5*
Oversize Particles Water Content = *0.2%* ***Optimum Moisture Content =*** *6.5%*



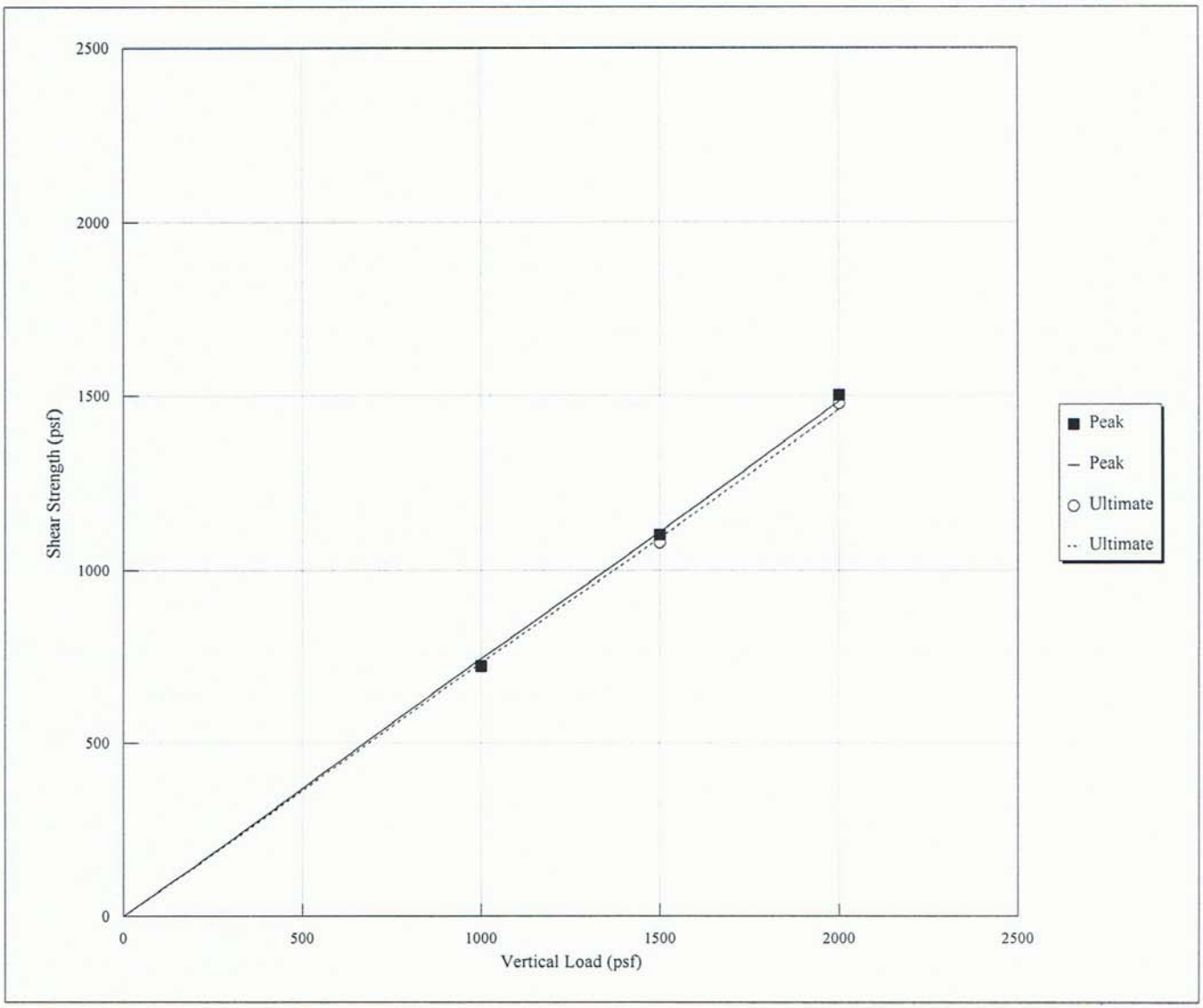
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation	Job No.	GS1076SCE
Soil type:	Sandy silt with fine gravel		
Technician	R. Thomas	Location	B-1
		Depth	1'-5'
Undisturbed		Remolded **X at 90 %**	Date 8/12/2010

Moisture Before Test	**9.3** %
Moisture After Test	**17** %
Dry Density	**115** pcf

	Peak	Ultimate
Cohesion (psf)	**0**	**0**
Friction Angle (deg.)	**37**	**36**



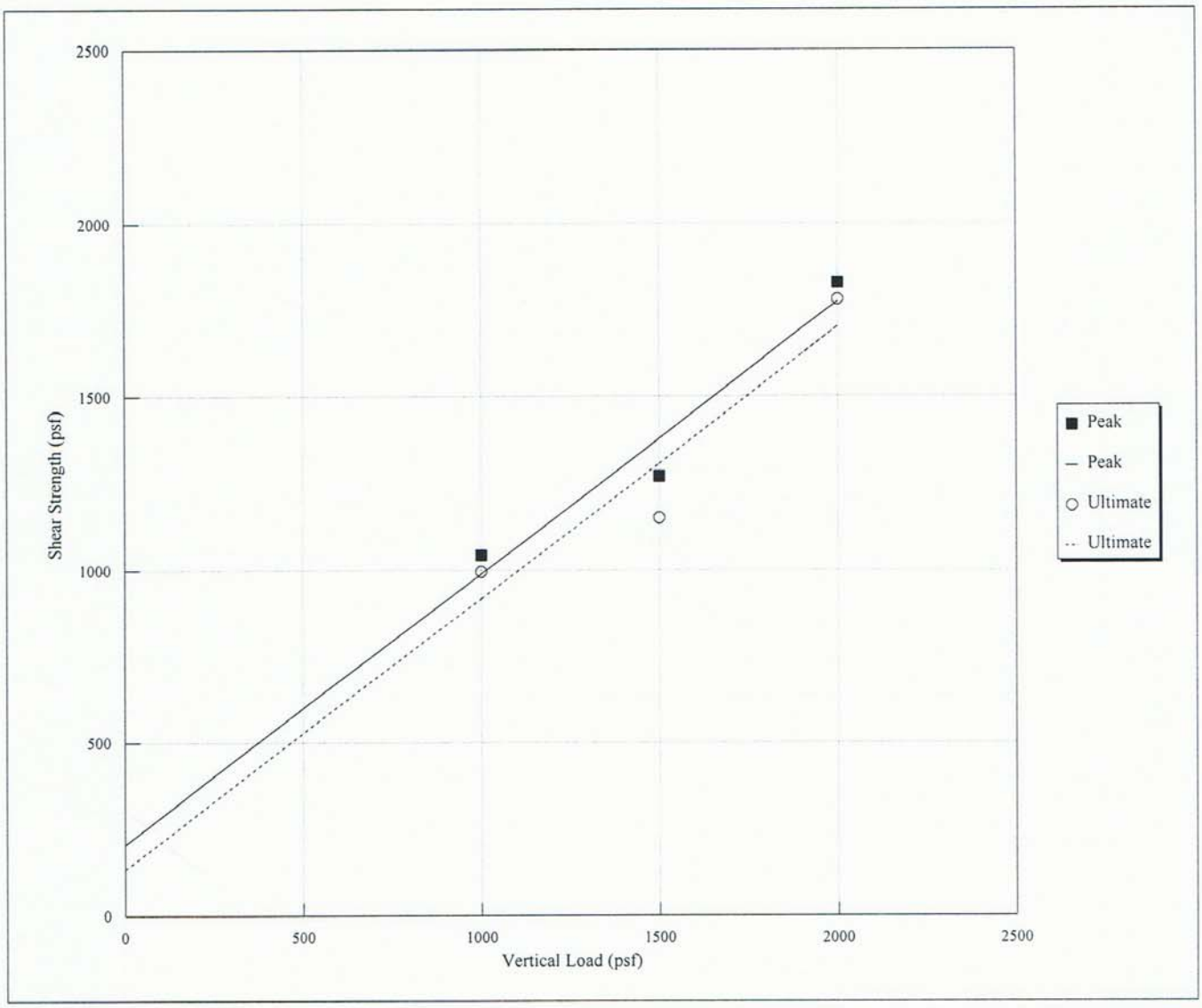
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation, Corona	Job No.	GS1076SCE
Soil type:	Fine-medium silty sand		
Technician	R. Thomas	Location	B-2
		Depth	5'
Undisturbed	X	Date	7/30/2010
Remolded			

Moisture Before Test	**9.2** %
Moisture After Test	**13.4** %
Dry Density	**117** pcf

	Peak	Ultimate
Cohesion (psf)	**210**	**140**
Friction Angle (deg.)	**38**	**38**



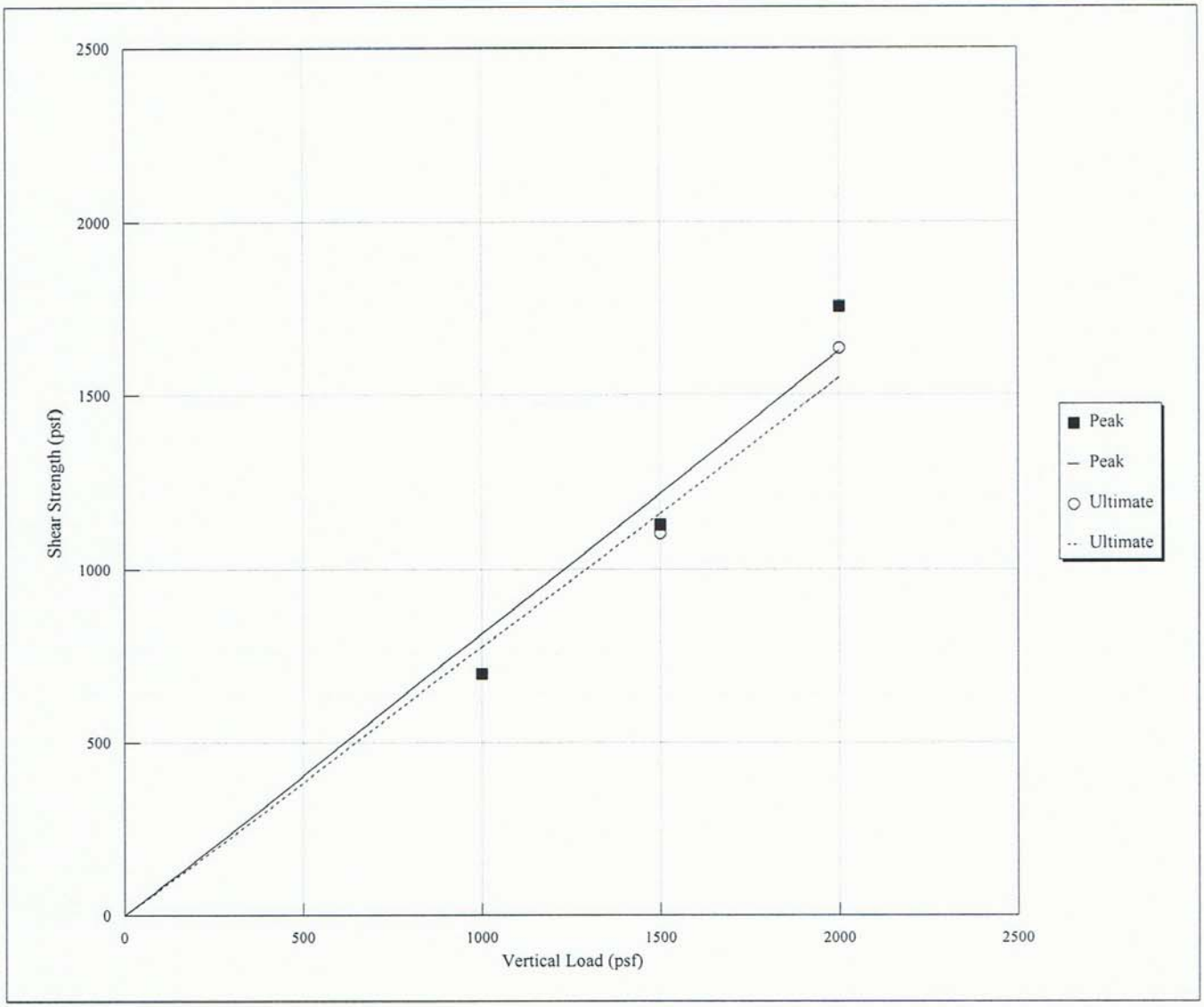
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation, Corona	Job No.	GS1076SCE
Soil type:	Brown sandy silt w/ gravel		
Technician	R. Thomas	Location	B-3
		Depth	0'-5'
Undisturbed		Remolded **X at 90% RC**	Date 8/12/2010

Moisture Before Test	**6.3** %
Moisture After Test	**13** %
Dry Density	**120** pcf

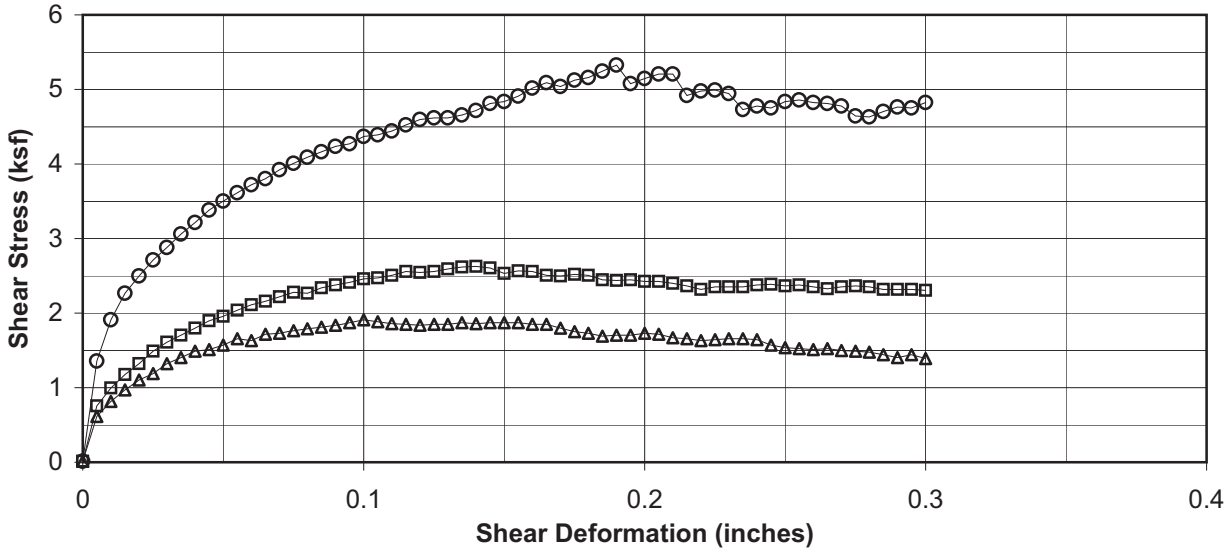
	Peak	Ultimate
Cohesion (psf)	**0**	**0**
Friction Angle (deg.)	**39**	**38**

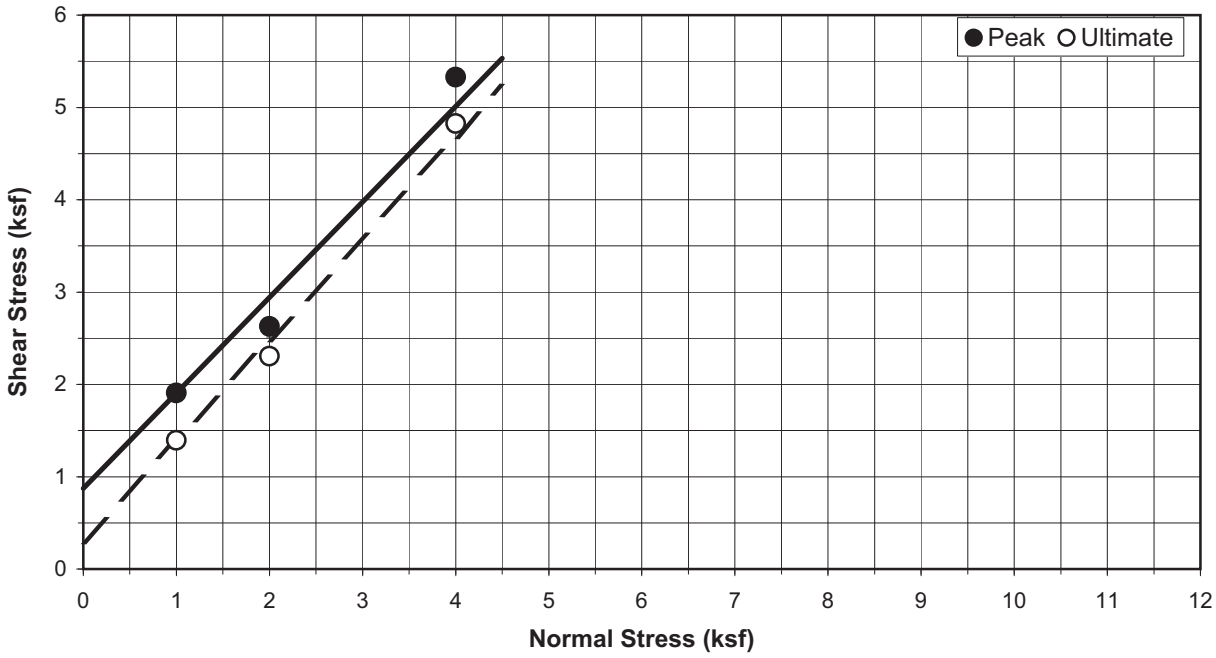


AP Engineering & Testing, Inc.

DIRECT SHEAR TEST RESULTS
ASTM D 3080

Project Name:	Circle City/Corona	Initial Dry Density:	122.3	pcf
Boring No.:	B-3	Moisture Content (before):	3.6	%
Sample No.:	-	Moisture Content (after):	12.5	%
Depth (ft):	10			
Sample Type:	Mod. Cal.			
Soil Description:	Brown Sandy Gravel			
Test Condition:	Inundated			





Strength Parameters	Peak	Ultimate
Cohesion (psf):	850	300
Friction Angle:	46 °	48 °

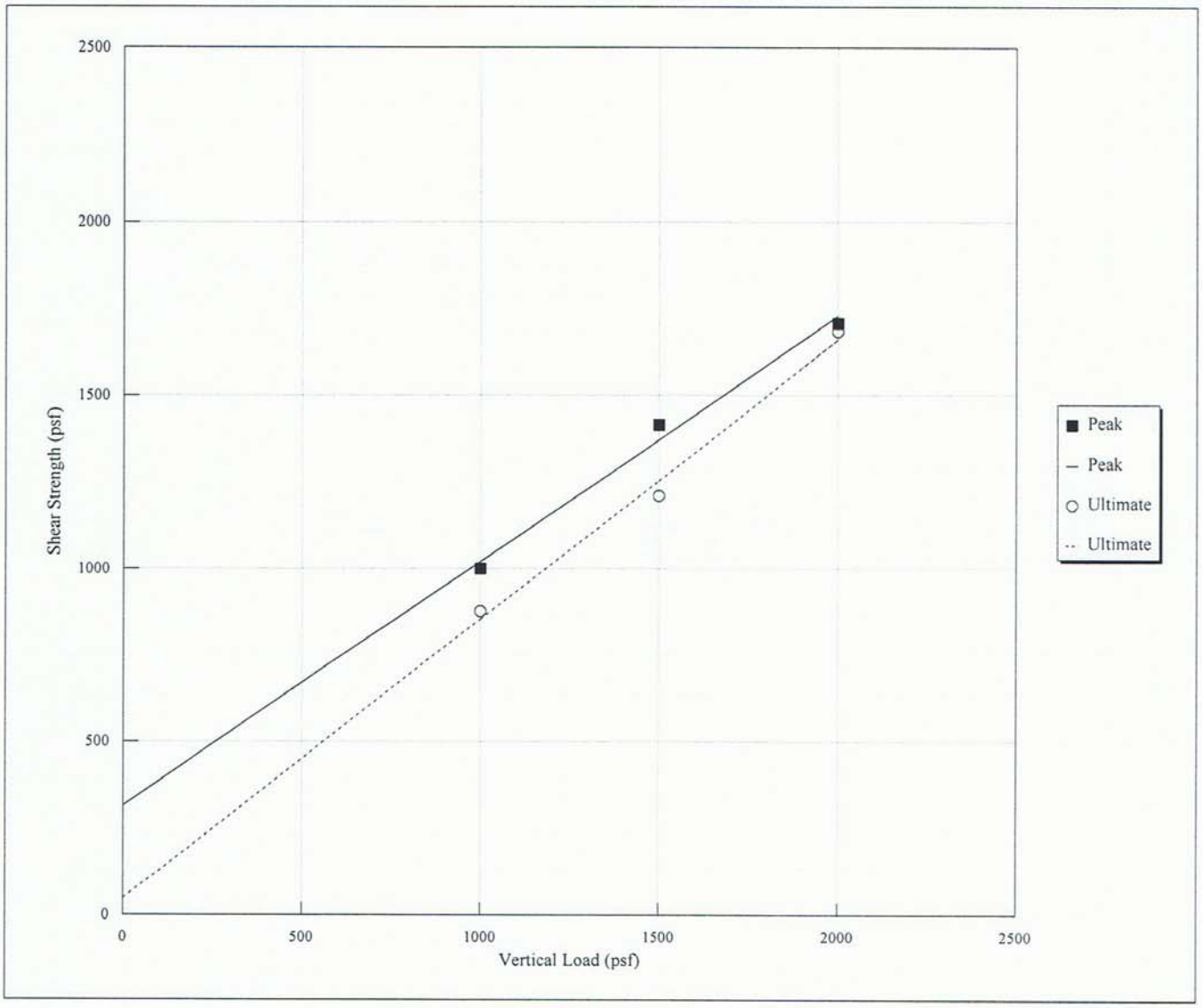
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation	Job No.	GS1076SCE
Soil type:	Yellow - brown sand and gravel with silt		
Technician	R. Thomas	Location	B-4
		Depth	5'
Undisturbed	X	Date	7/30/2010
Remolded			

Moisture Before Test	**1** %
Moisture After Test	**12** %
Dry Density	**125** pcf

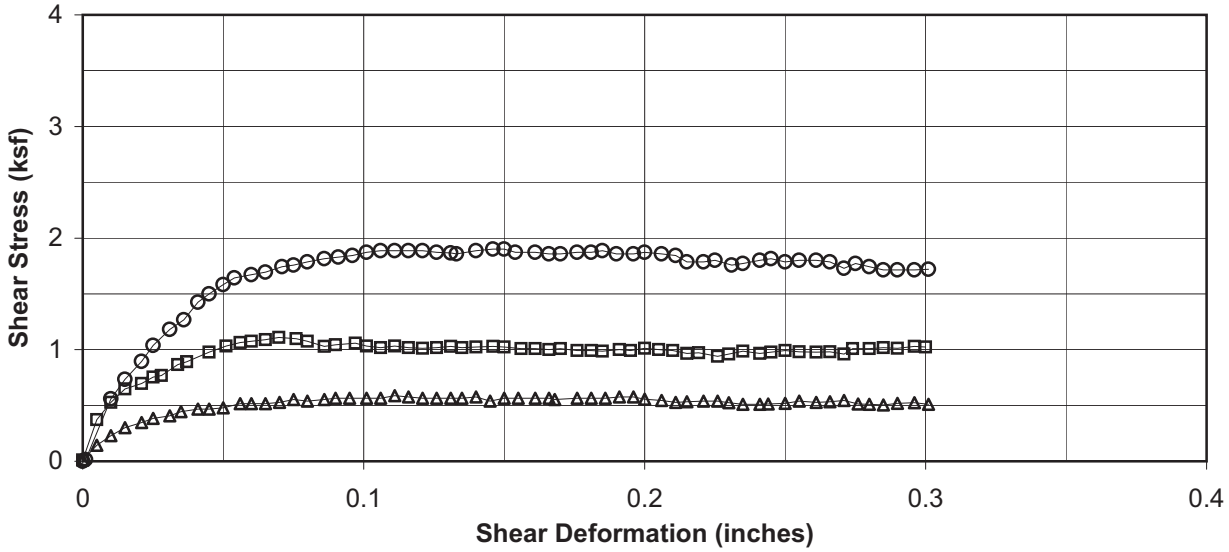
	Peak	Ultimate
Cohesion (psf)	**320**	**50**
Friction Angle (deg.)	**35**	**39**

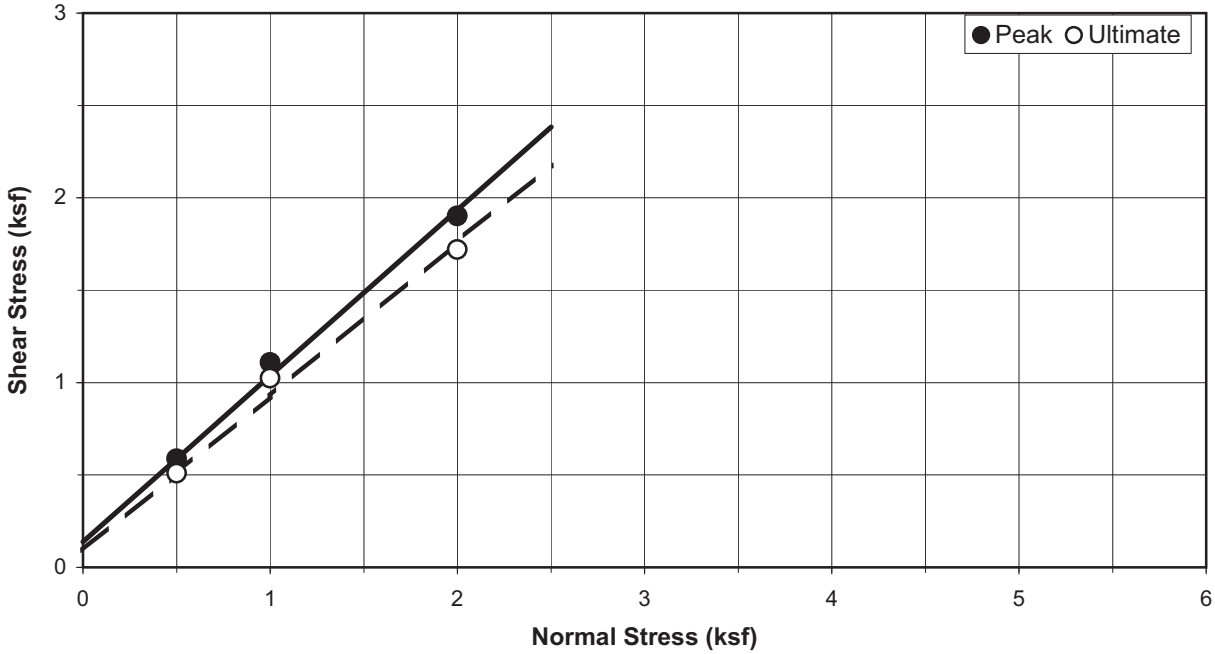


AP Engineering & Testing, Inc.

DIRECT SHEAR TEST RESULTS
ASTM D 3080

Project Name:	Circle City/Corona	Initial Dry Density:	122.7	pcf
Boring No.:	B-6	Moisture Content (before):	0.7	%
Sample No.:	-	Moisture Content (after):	13.5	%
Depth (ft):	5			
Sample Type:	Mod. Cal.			
Soil Description:	Light Brown Gravelly Sand			
Test Condition:	Inundated			





Strength Parameters	Peak	Ultimate
Cohesion (psf):	150	100
Friction Angle:	42 °	40 °

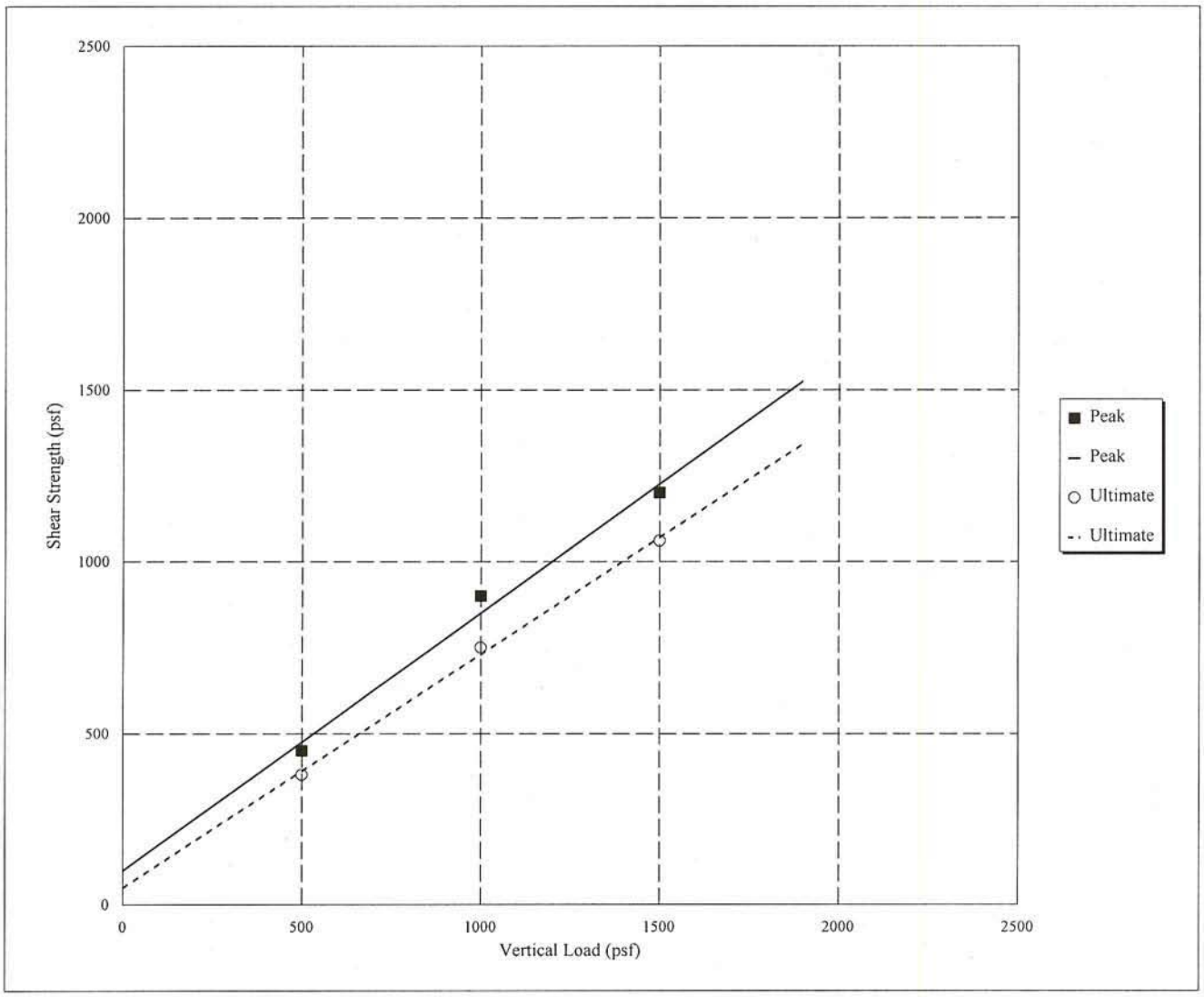
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation	Job No.	GS 1076
Soil type:	Fine to coarse grained sand with rocks		
Technician	R. Thomas	Location	B-7
		Depth	2'
Undisturbed	X	Date	12/27/2011
Remolded			

Moisture Before Test	**1.3** %
Moisture After Test	**13.4** %
Dry Density	**118.3** pcf

	Peak	Ultimate
Cohesion (psf)	**100**	**50**
Friction Angle (deg.)	**37**	**34**



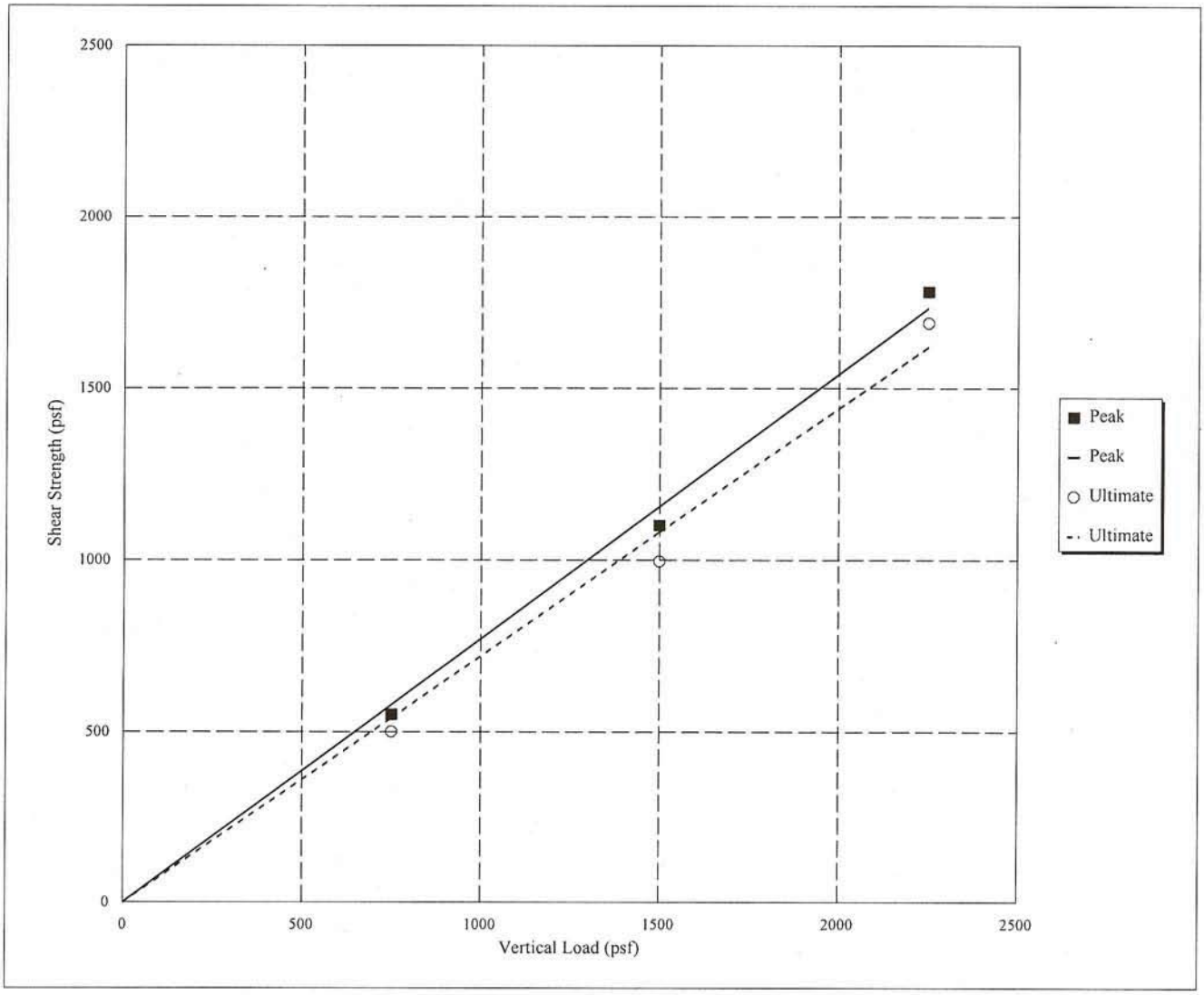
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation	Job No.	GS 1076
Soil type:	Fine to coarse grained sand with rocks		
Technician	R. Thomas	Location	B-7
		Depth	26'
Undisturbed	X	Remolded		Date	12/27/2011

Moisture Before Test	**8.5** %
Moisture After Test	**14.8** %
Dry Density	**116.9** pcf

	Peak	Ultimate
Cohesion (psf)	**0**	**0**
Friction Angle (deg.)	**38**	**36**



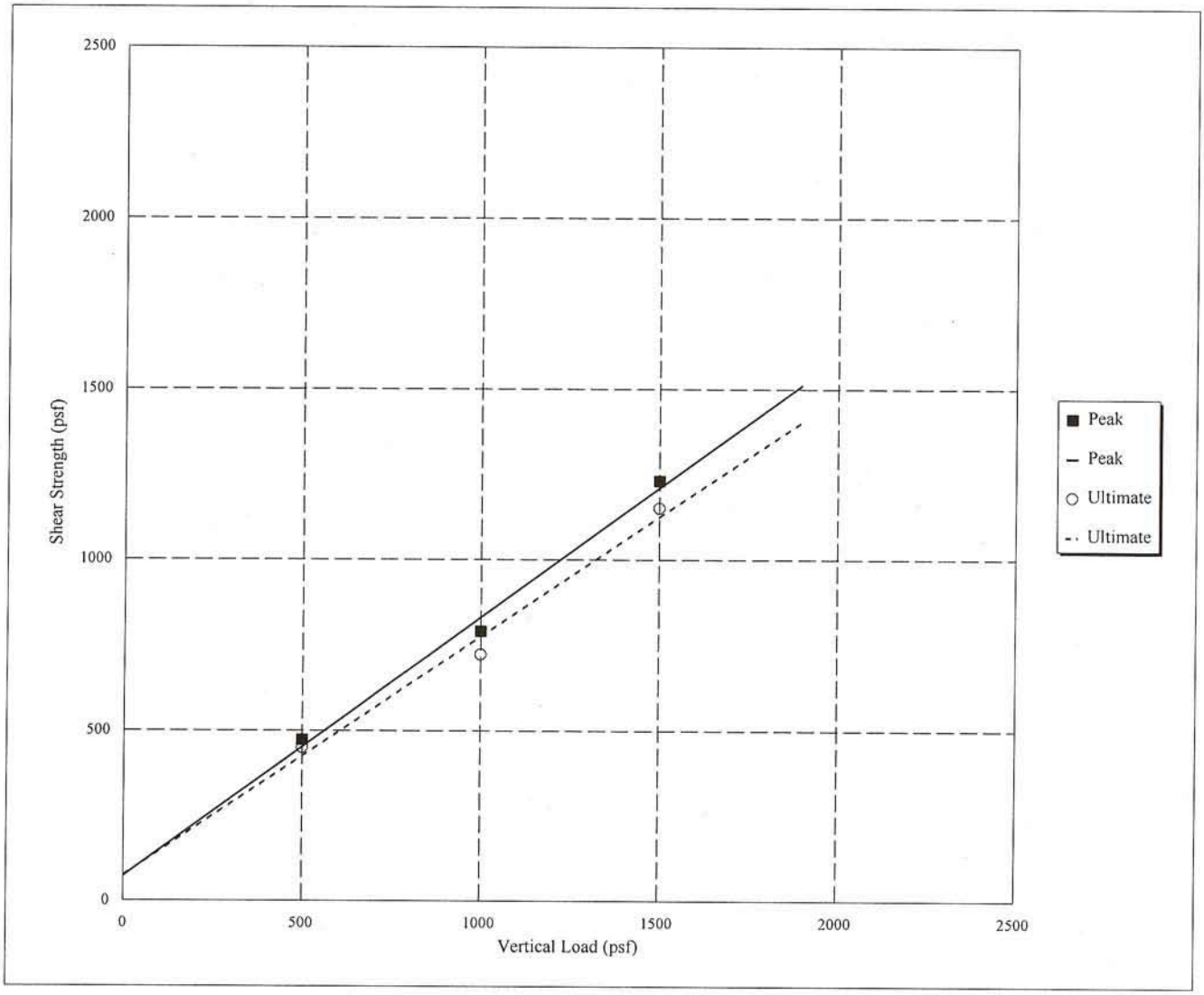
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation	Job No.	GS 1076
Soil type:	Fine to coarse grained sand with rocks		
Technician	R. Thomas	Location	B-8
		Depth	2'
Undisturbed	X	Date	12/28/2011
Remolded			

Moisture Before Test	**1.1** %
Moisture After Test	**16.8** %
Dry Density	**114.6** pcf

	Peak	Ultimate
Cohesion (psf)	**70**	**70**
Friction Angle (deg.)	**37**	**35**



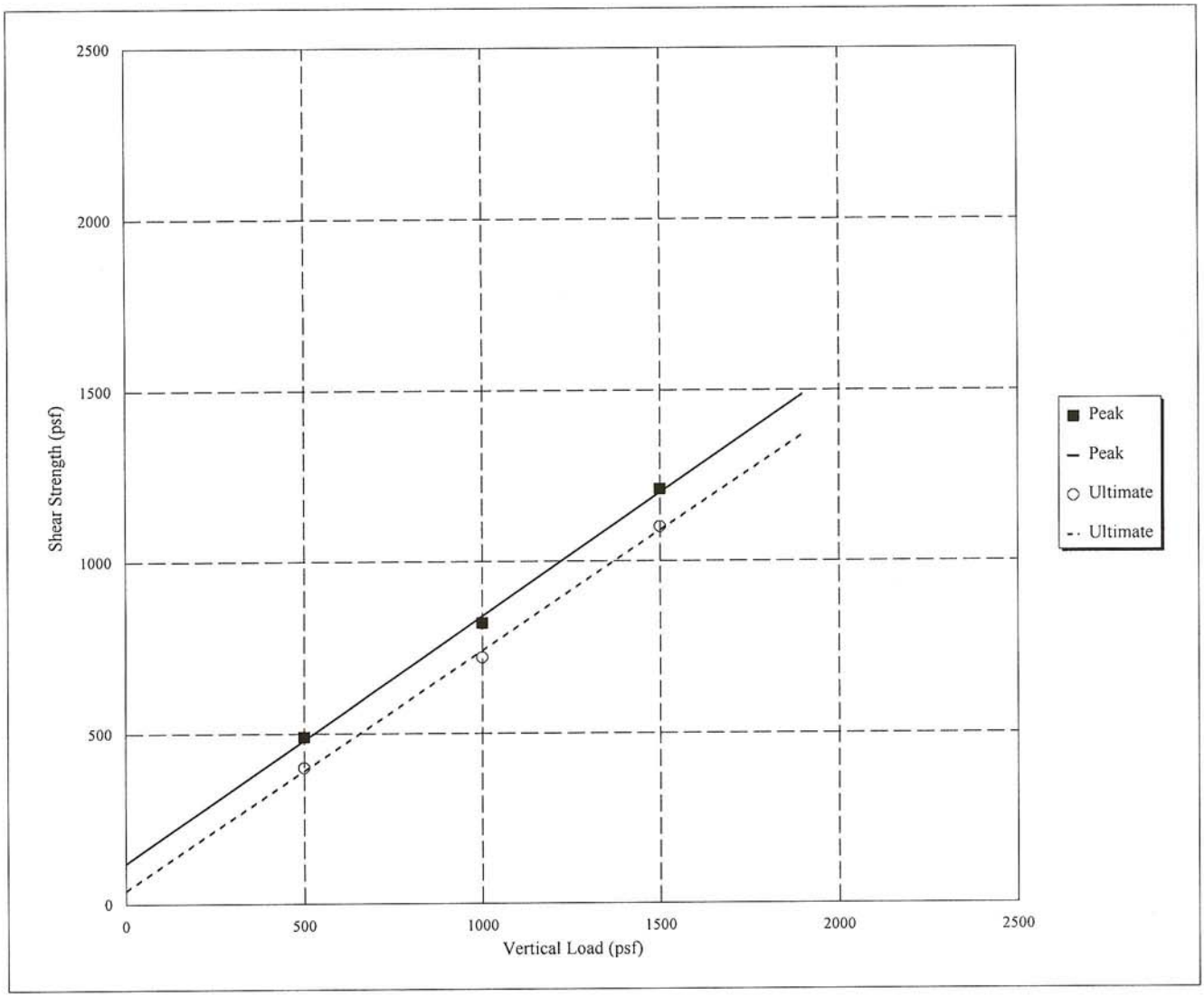
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

Client	SCE, Circle City Substation	Job No.	GS 1076
Soil type:	Silty fine grained sand with scattered rocks		
Technician	R. Thomas	Location	TR-1
		Depth	2.5' - 5'
Undisturbed		Remolded **at 90%**	Date 1/6/2012

Moisture Before Test	7 %
Moisture After Test	**13.8** %
Dry Density	**118.5** pcf

	Peak	Ultimate
Cohesion (psf)	**120**	**40**
Friction Angle (deg.)	**36**	**35**



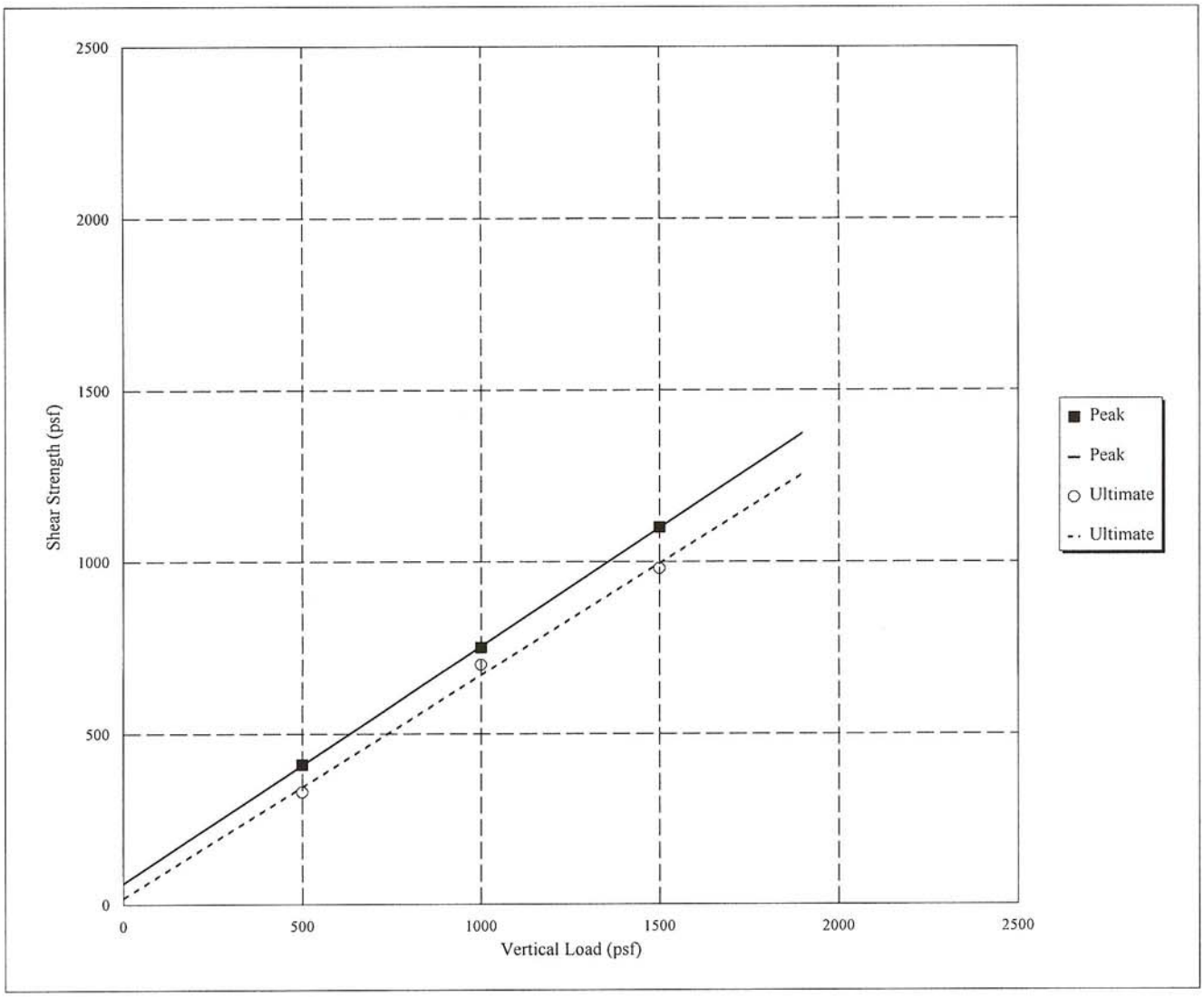
Geotechnical Soilutions, Inc.
501 S. Fairfax Ave, # 101
Los Angeles, CA 90036

DIRECT SHEAR TEST

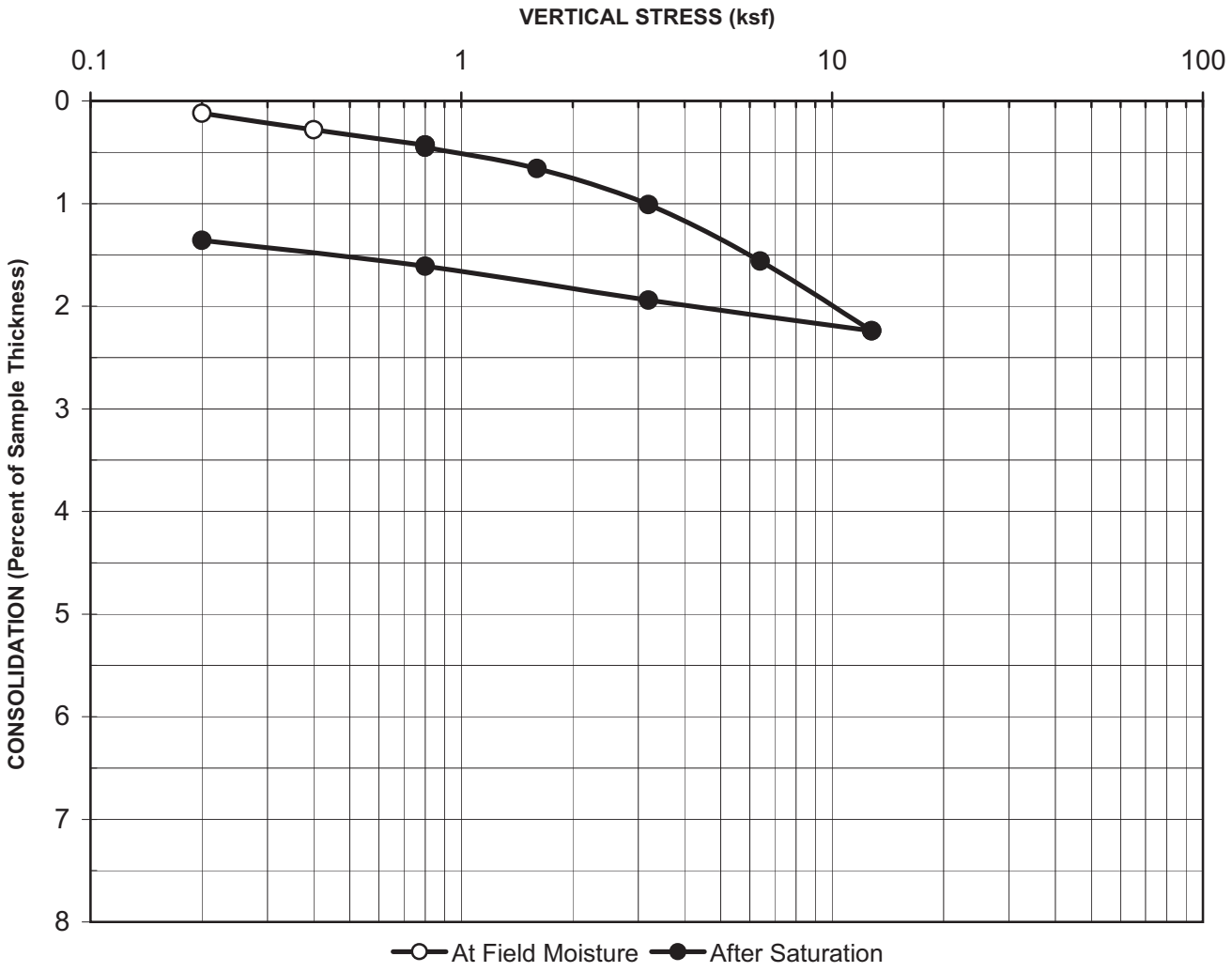
Client	SCE, Circle City Substation	Job No.	GS 1076
Soil type:	Medium to coarse grained sand with rocks		
Technician	R. Thomas	Location	TR-1
		Depth	5' - 12'
Undisturbed		Remolded **at 90%**	Date 1/6/2012

Moisture Before Test	**6.1** %
Moisture After Test	**14** %
Dry Density	**119** pcf

	Peak	Ultimate
Cohesion (psf)	**60**	**20**
Friction Angle (deg.)	**35**	**33**



AP Engineering & Testing, Inc.

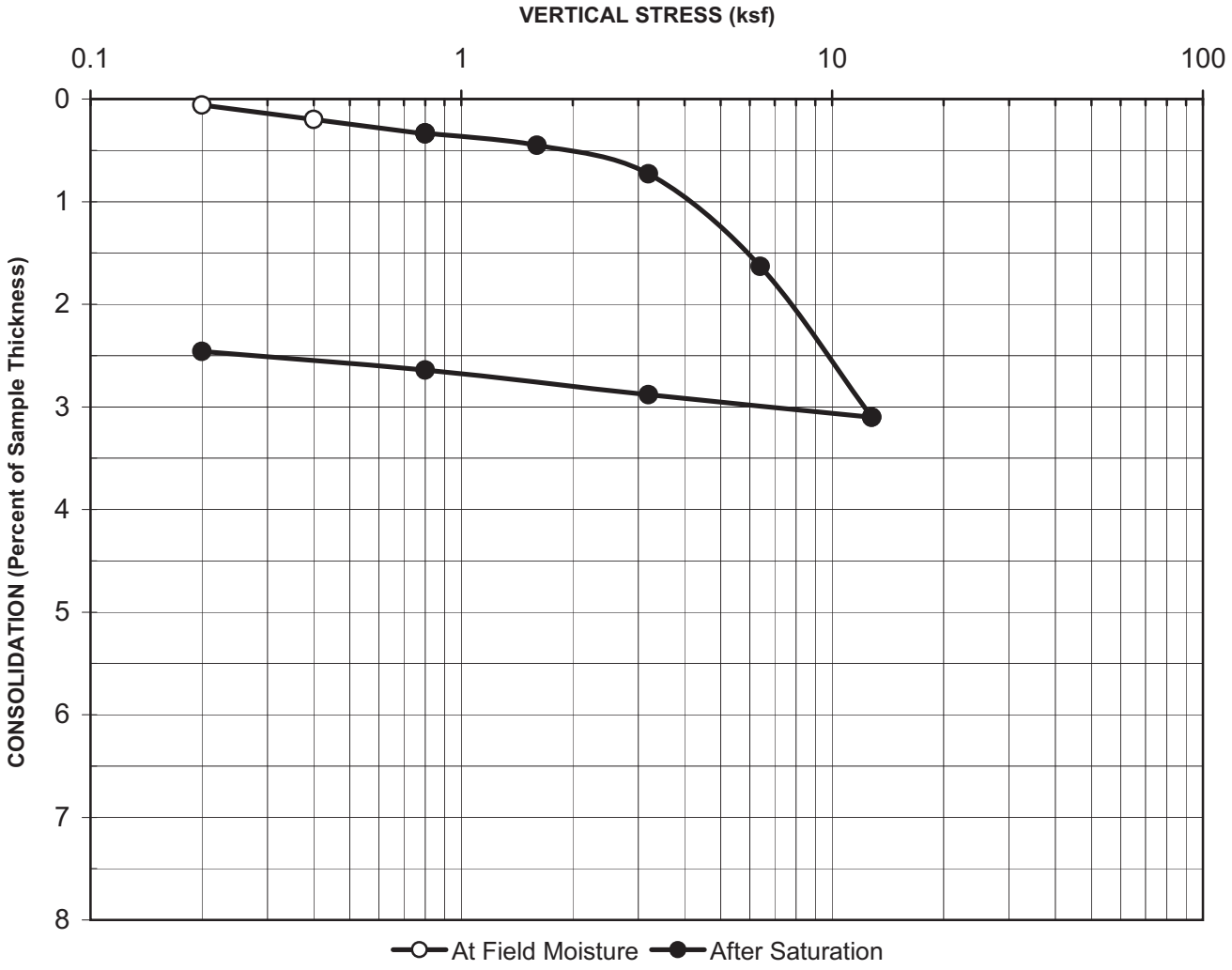


Boring No. :	B-1	Initial Dry Unit Weight (pcf):	115.8
Sample No.:	-	Initial Moisture Content (%):	3.6
Depth (feet):	5	Final Moisture Content (%):	14.6
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Brown Poorly-Graded Sand w/silt &	Initial Void Ratio:	0.46
Remarks:			

CONSOLIDATION CURVE
ASTM D 2435

Project Name: Circle City/Corona
Project No.: GS1076SCE
Date: 8/2/2010
AP No: 10-0759

AP Engineering & Testing, Inc.

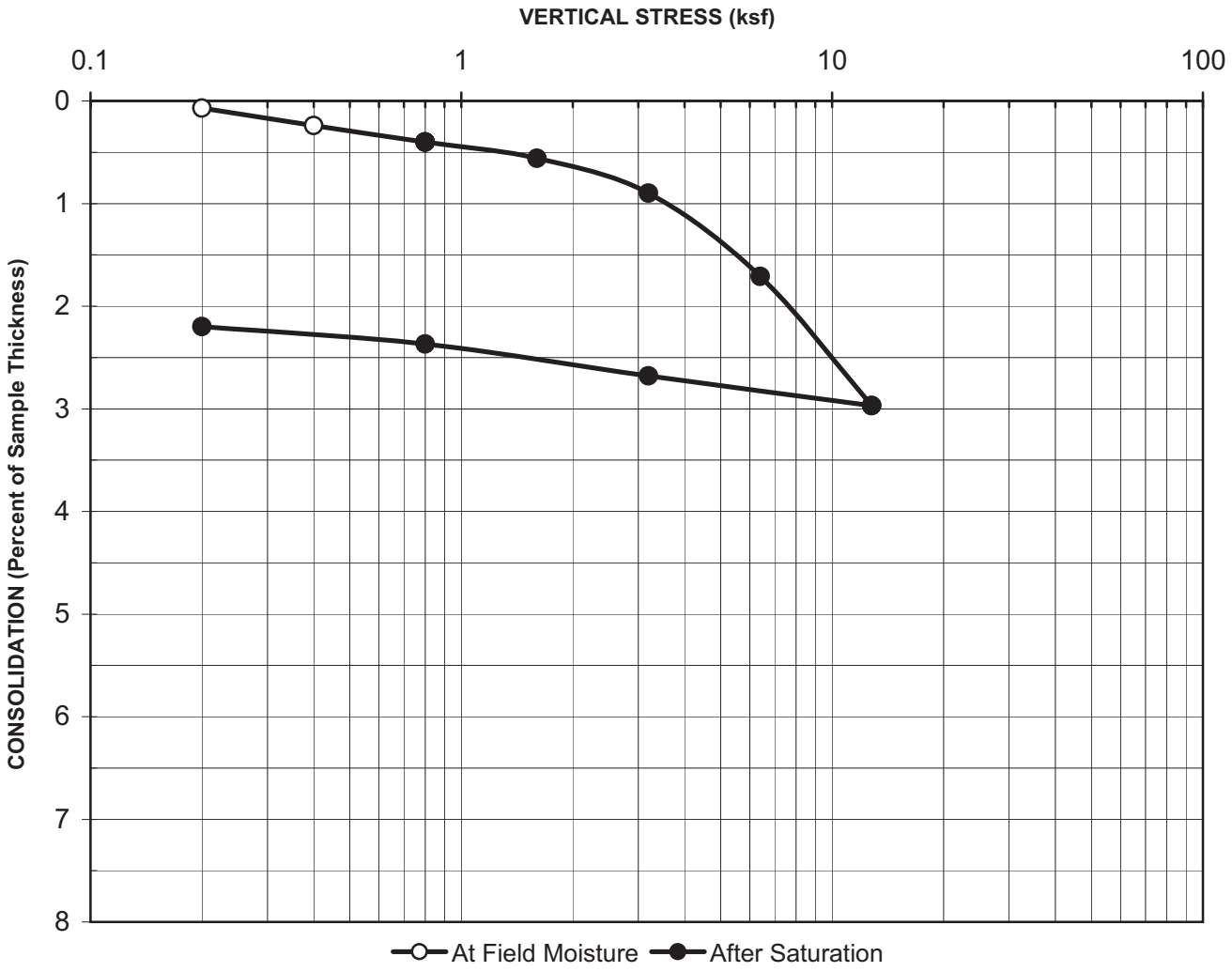


Boring No. :	B-2	Initial Dry Unit Weight (pcf):	120.3
Sample No.:	-	Initial Moisture Content (%):	3.3
Depth (feet):	7	Final Moisture Content (%):	11.7
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Brown Silty Sand w/gravel	Initial Void Ratio:	0.40
Remarks:			

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	Circle City/Corona
Project No.:	GS1076SCE
Date:	8/2/2010
AP No:	10-0759

AP Engineering & Testing, Inc.

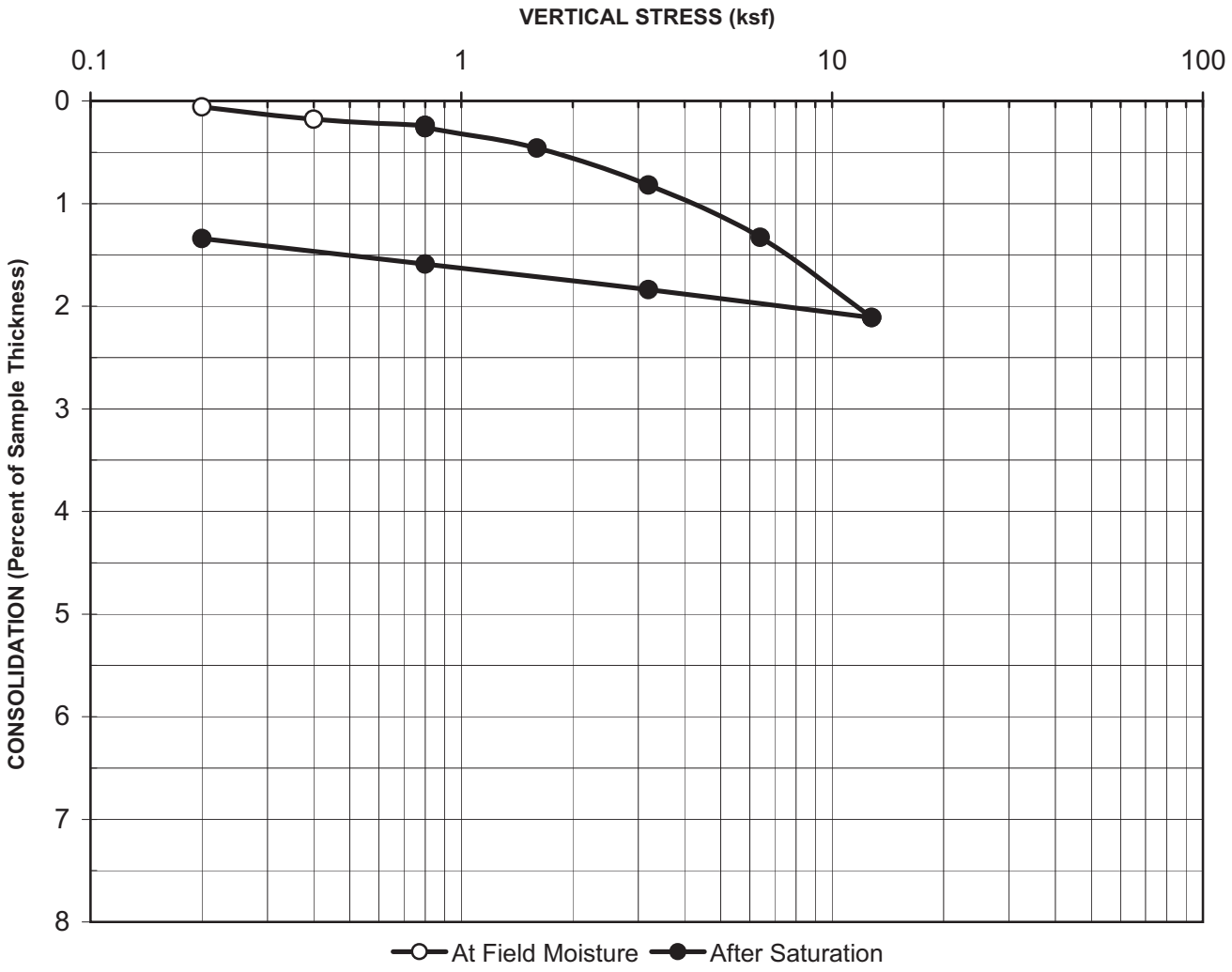


Boring No. :	B-3	Initial Dry Unit Weight (pcf):	122.6
Sample No.:	-	Initial Moisture Content (%):	3.6
Depth (feet):	10	Final Moisture Content (%):	24.4
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Brown Sandy Gravel	Initial Void Ratio:	0.37
Remarks:			

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	Circle City/Corona
Project No.:	GS1076SCE
Date:	8/2/2010
AP No:	10-0759

AP Engineering & Testing, Inc.



Boring No. :	B-6	Initial Dry Unit Weight (pcf):	121.6
Sample No.:	-	Initial Moisture Content (%):	0.6
Depth (feet):	5	Final Moisture Content (%):	13.4
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Light Brown Gravelly Sand	Initial Void Ratio:	0.39
Remarks:			

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	Circle City/Corona
Project No.:	GS1076SCE
Date:	8/2/2010
AP No:	10-0759

AP Engineering & Testing, Inc.

CORROSION TEST RESULTS

Client Name: Geotechnical Soilution, Inc./SCE
Project Name: Circle City/Corona
Project No.: GS1076SCE

AP Job No.: 10-0759
Date 07/29/10

Boring No.	Sample No.	Depth (ft)	Soil Type	Minimum Resistivity (ohm-cm)	pH	Sulfate Content (ppm)	Chloride Content (ppm)
B-1	-	0-5	SM	3000	7.1	260	202
B-3	-	0-5	SM	8000	7.2	28	124

NOTES: Resistivity Test and pH: California Test Methods 532 and 643
Sulfate Content : California Test Method 417
Chloride Content : California Test Method 422
ND = Not Detectable
NA = Not Sufficient Sample
NR = Not Requested

2607 Pomona Boulevard, Pomona, CA 91768
Tel. (909) 869-6316 Fax. (909)869-6318

Table 1 - Laboratory Tests on Soil Samples

Geotechnical Soilutions, Inc.
SCE-Circle City Substation
HDR|Schiff #11-1273LAB
23-Dec-11

Sample ID			B7 @ 5'	TP1 @ 2-5'
Resistivity		**Units**		
as-received		ohm-cm	560,000	1,160,000
saturated		ohm-cm	7,440	12,000
pH			7.8	7.8
Electrical Conductivity		mS/cm	0.07	0.04
Chemical Analyses				
Cations				
calcium	Ca^{2+}	mg/kg	58	47
magnesium	Mg^{2+}	mg/kg	8.0	6.9
sodium	Na^{1+}	mg/kg	24	12
potassium	K^{1+}	mg/kg	8.0	6.4
Anions				
carbonate	CO_3^{2-}	mg/kg	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	119	101
fluoride	F^{1-}	mg/kg	3.6	5.9
chloride	Cl^{1-}	mg/kg	3.5	0.4
sulfate	SO_4^{2-}	mg/kg	54	2.5
phosphate	PO_4^{3-}	mg/kg	1.0	3.9
Other Tests				
ammonium	NH_4^{1+}	mg/kg	1.4	1.3
nitrate	NO_3^{1-}	mg/kg	ND	5.5
sulfide	S^{2-}	qual	na	na
Redox		mV	na	na

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

APPENDIX C

PERCOLATION TEST RESULTS

SCE Circle City, Perc Test
GS 1076
July 11, 2012

Southern California Edison
One Innovation Way
Pomona, CA 91768
Attn: Mr. Esam Abraham

SUBJECT: SCE, CIRCLE CITY SUBSTATION DOUBLE RING INFILTROMETER TEST LEESON LANE AND MAGNOLIA AVENUE IN CORONA, CALIFORNIA

Dear Mr. Abraham:

In accordance with your request, we have prepared this letter summarizing the Double Ring Infiltrometer test that was performed on June 28, 2012.

Double ring infiltrometer is a way of measuring saturated hydraulic conductivity of the surface layer, and consists of an inner and outer ring inserted into the ground. Each ring is supplied with a constant head of water. Hydraulic conductivity can be estimated for the soil when the water flow rate in the inner ring is at a steady state.

The project site is located in the city of Corona, California, in the south east corner of Leeson Ln and Dudley Way. There is an existing unoccupied building on the west side of the property. The test location is east of the existing building, east side of the property, in the vicinity of the proposed basin. The surface of the site is mainly covered with scrub and dried greenery. The on-site soil consists mostly of silty sand.

An area of approximately 5 feet by 5 feet was excavated to the depth of approximately 8 inches. The rings were placed within each other, and hammered inside the soil for 2-3 inches. There were 12 trials done for this test, divided into two time intervals. The first 2 trials were performed in 15 minute intervals, and the rest were done in 30 minute intervals respectively. The duration of the test was almost 6.5 hours, and was limited due to saturation of the soil around outside ring.

A graph and a table were prepared, presenting the incremental infiltration rate of the inner ring and the annular space between the two rings, and a graph showing the results in a more visual aspect.

We appreciate the opportunity to be of professional service to you in this matter. If you have any questions, please do not hesitate to contact us.

Sincerely,
Geotechnical Soilutions, Inc.

Mesrop A. Mesrop
Principal Geotechnical Engineer

Shan Babakhanian
Staff Engineer

Geotechnical Soilutions ,INC

Double - Ring Infiltrometer Test. (ASTM-D 3385-03)

Project Identification- SCE Circle City Substatior **Job Number-** GS 1076

Test Location- Corona, California **Tested By-** Shant Babakhanian

Liquid Used- Water **Date-** 6/28/2012

Test Depth- 8" below ground surface **Soil Type-** Silty Sand

Constants	Area (cm^2)	Depth of Liquid from Surface (cm)
Inner Ring	707	15.0
Annular Space	2120	15.0

TRIAL #		DATE	TIME	ELAPSED TIME	FLOW READINGS						REFILL	LIQUID	INCR, INFILT, RATE	
					INNER RING			OUTER RING						
					READING.(Cm)	FLOW(Cm^3)	AREA(Cm^2)	READING.(Cm)	FLOW(Cm^3)	AREA(Cm^2)		TEMP	INNER (Cm/h)	OUTER(Cm/h)
1	S	6/28/2012	8:15	15	3.68	2600	706.9	4.03	8550	2120.0	yes	69	14.71	16.13
	E		8:30	15										
2	S	6/28/2012	8:30	15	3.47	2450		3.58	7600		yes	70	13.86	14.34
	E		9:00	30										
3	S	6/28/2012	9:00	30	2.19	1550		3.54	7500		yes	73	4.39	7.08
	E		9:30	60										
4	S	6/28/2012	9:30	30	2.21	1560		2.62	5550		yes	75	4.41	5.24
	E		10:00	90										
5	S	6/28/2012	10:00	30	2.14	1510		2.98	6320		yes	79	4.27	5.96
	E		10:30	120										
6	S	6/28/2012	10:30	30	1.77	1250		2.78	5900		yes	80	3.54	5.57
	E		11:00	150										
7	S	6/28/2012	11:00	30	1.98	1400		2.74	5800		yes	80	3.96	5.47
	E		11:30	180										
8	S	6/28/2012	11:30	30	1.78	1260		2.68	5680		yes	80	3.57	5.36
	E		12:00	210										
9	S	6/28/2012	12:00	30	1.82	1290		2.75	5840		yes	81	3.65	5.51
	E		12:30	240										
10	S	6/28/2012	12:30	30	2.19	1550		2.92	6200		yes	82	4.39	5.85
	E		1:00	270										
11	S	6/28/2012	1:00	30	2.01	1420		2.76	5850		yes	85	4.02	5.52
	E		1:30	300										
12	S	6/28/2012	1:30	30	1.88	1330		2.55	5400		yes	85	3.76	5.09
	E		2:00	330										
13	S	6/28/2012	2:00	30	1.82	1290		2.48	5250		yes	86	3.65	4.95
	E		2:30	360										

Project Identification- SCE Circle City Substation

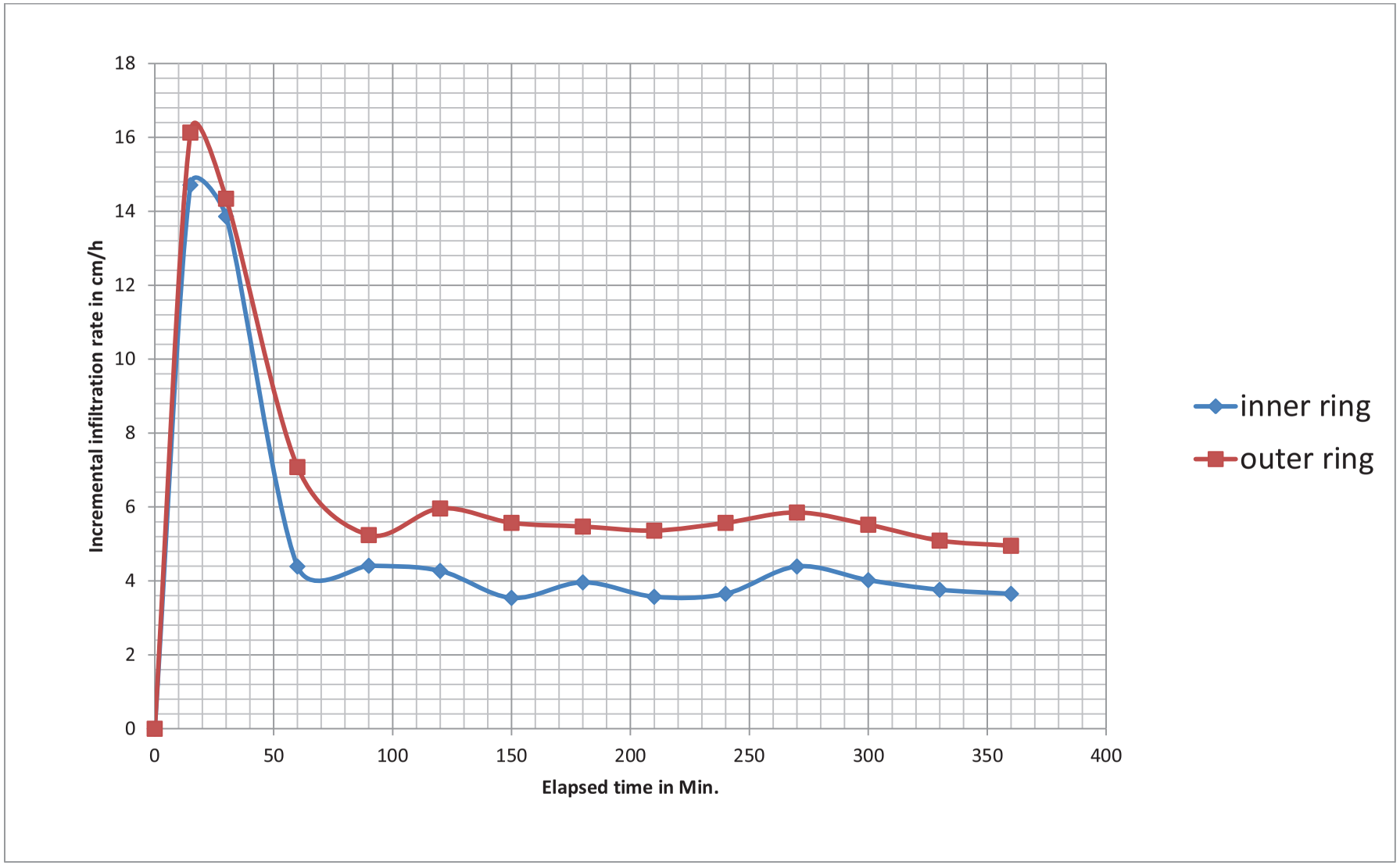
Job Number- GS 1076

Test Location- Corona, California

Tested By- Shant Babakhanian

Liquid Used- Water

Date- 6/28/2012



GEOTECHNICAL SOILUTIONS. DOUBLE-RING INFILTROMETER ASTM-D 3385-03

APPENDIX D

SOIL RESISTIVITY AND CORROSIVITY STUDY

www.hdrinc.com
Corrosion Control and Condition Assessment (C3A) Department

July 3, 2012 via email: Justine.Yan@sce.com

SOUTHERN CALIFORNIA EDISON
One Innovation Way
Pomona, CA 91768

Attention: Ms. Justine Yan, P.E.

Re: Soil Corrosivity Study
Circle City Substation Site 34S
Corona, California
HDR|Schiff #12-0490SCS, HDR #186982

INTRODUCTION

Field and laboratory tests have been completed on two soil samples collected by HDR Engineering, Inc. (HDR|Schiff) for the Circle City Substation Site 34S project. Field tests were completed on June 21, 2012. The purpose of these tests was to determine the electrical resistivity of the soil for grounding design and to determine if the soils might have deleterious effects on underground utility piping and concrete structures.

For the grounding design, soil electrical values are provided as 'data only' in order to aid other engineers.

The proposed construction consists of an electrical substation. The site is located near the intersection of Magnolia Avenue and All American Way in Corona, California. The water table depth was not provided; therefore, its effect on site corrosivity could not be accounted for in this analysis and report.

The scope of this study is limited to a determination of soil corrosivity and general corrosion control recommendations for materials likely to be used for construction. Our recommendations do not constitute, and are not meant as a substitute for, design documents for the purpose of construction. If the architects and/or engineers desire more specific information, designs, specifications, or review of design, HDR|Schiff will be happy to work with them as a separate phase of this project.

431 West Baseline Road · Claremont, CA 91711
Phone: 909.626.0967 · Fax: 909.626.3316

TEST PROCEDURES

The electrical resistivity of the soil was measured in-situ at two locations using the Wenner Four Pin Method in accordance with the EDSL 33-90-00, Soil Test Requirements. This procedure gives the average resistivity to a depth equal to the spacing between the pins. Approximate pin spacings of 1, 1.5, 2.5, 5, 7, 10, 15, 25, 50, 75, and 100 feet were used so that variations with depth could be evaluated. Strata resistivities were calculated from resistance data using the Barnes Procedure. Test results are shown in Table 1. An aerial photo showing approximate soil resistivity test locations is provided as an attachment to this report.

The electrical resistivity of each sample was measured in a soil box per ASTM G187 in its as-received condition and again after saturation with distilled water. Resistivities are at about their lowest value when the soil is saturated. The pH of the saturated samples was measured per CTM 643. A 5:1 water:soil extract from each sample was chemically analyzed for the major soluble salts commonly found in soil per ASTM D4327 and D6919. Test results are shown in Table 2.

SOIL CORROSIVITY

A major factor in determining soil corrosivity is electrical resistivity. The electrical resistivity of a soil is a measure of its resistance to the flow of electrical current. Corrosion of buried metal is an electrochemical process in which the amount of metal loss due to corrosion is directly proportional to the flow of electrical current (DC) from the metal into the soil. Corrosion currents, following Ohm's Law, are inversely proportional to soil resistivity. Lower electrical resistivities result from higher moisture and soluble salt contents and indicate corrosive soil.

A correlation between electrical resistivity and corrosivity toward ferrous metals is:[1]

Soil Resistivity in ohm-centimeters	Corrosivity Category
Greater than 10,000	Mildly Corrosive
2,000 to 10,000	Moderately Corrosive
1,000 to 2,000	Corrosive
0 to 1,000	Severely Corrosive

Other soil characteristics that may influence corrosivity towards metals are pH, soluble salt content, soil types, aeration, anaerobic conditions, and site drainage.

The average and stratum resistivities measured in the field were in the mildly corrosive to corrosive categories.

Electrical resistivities were in the mildly corrosive category with as-received moisture. When saturated, the resistivities were in the moderately corrosive category. Some as-received resistivities

[1] *Romanoff, Melvin. Underground Corrosion, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, pp. 166–167.*

were at or near their saturated values. The resistivities dropped considerably with added moisture because the samples were dry as-received.

Soil pH values varied from 6.8 to 7.6. This range is neutral to mildly alkaline.[2] These values do not particularly increase soil corrosivity.

The soluble salt content of the samples was low.

The nitrate concentration was high enough to be aggressive to copper.

Tests were not made for sulfide and negative oxidation-reduction (redox) potential because these samples did not exhibit characteristics typically associated with anaerobic conditions.

This soil is classified as moderately corrosive to ferrous metals and aggressive to copper.

CORROSION CONTROL RECOMMENDATIONS

The life of buried materials depends on thickness, strength, loads, construction details, soil moisture, etc., in addition to soil corrosivity, and is, therefore, difficult to predict. Of more practical value are corrosion control methods that will increase the life of materials that would be subject to significant corrosion.

The following recommendations are based on the soil conditions discussed in the Soil Corrosivity section above. Unless otherwise indicated, these recommendations apply to the entire site or alignment.

Steel Pipe

Implement *all* the following measures:

1. Underground steel pipe with rubber gasketed, mechanical, grooved end, or other nonconductive type joints should be bonded for electrical continuity. Electrical continuity is necessary for corrosion monitoring and possible future cathodic protection.
2. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of possible future cathodic protection:
    a. At each end of the pipeline.
    b. At each end of all casings.
    c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
3. To prevent dissimilar metal corrosion cells and to facilitate the application of possible future cathodic protection, electrically isolate each buried steel pipeline per NACE Standard SP0286 from:

[2] *Romanoff, Melvin. Underground Corrosion, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, p. 8.*

a. Dissimilar metals.
b. Dissimilarly coated piping (cement-mortar vs. dielectric).
c. Above ground steel pipe.
d. All existing piping.

4. Choose one of the following corrosion control options:

OPTION 1

a. Apply a suitable dielectric coating intended for underground use such as:
   i. Polyurethane per AWWA C222 *or*
   ii. Extruded polyethylene per AWWA C215 *or*
   iii. A tape coating system per AWWA C214 *or*
   iv. Hot applied coal tar enamel per AWWA C203 *or*
   v. Fusion bonded epoxy per AWWA C213.

b. Although it is customary to cathodically protect bonded dielectrically coated structures, cathodic protection is not recommended at this time due to moderately corrosive soils. Joint bonds, test stations, and insulated joints should still be installed and will facilitate the application of cathodic protection in the future if needed to control leaks. Install electrical resistance (ER) probes designed for steel piping to discern if/when cathodic protection will be warranted in the future.

OPTION 2

a. As an alternative to dielectric coating and possible future cathodic protection, apply a ¾-inch cement mortar coating per AWWA C205 or encase in concrete 3 inches thick, using any type of cement. Joint bonds, test stations, and insulated joints are still required for these alternatives.

NOTE: Some steel piping systems, such as for oil, gas, and high-pressure piping systems, have special corrosion and cathodic protection requirements that must be evaluated for each specific application.

Iron Pipe

Implement *all* the following measures:

1. Electrically insulate underground iron pipe from dissimilar metals and from above ground iron pipe with insulating joints per NACE Standard SP0286.
2. Bond all nonconductive type joints for electrical continuity. Electrical continuity is necessary for corrosion monitoring and possible future cathodic protection.
3. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of possible future cathodic protection:
   a. At each end of the pipeline.
   b. At each end of any casings.

c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.

4. Choose one of the following corrosion control options:

OPTION 1

a. Apply a suitable coating intended for underground use such as:
   i. Polyethylene encasement per AWWA C105; *or*
   ii. Epoxy coating; *or*
   iii. Polyurethane; *or*
   iv. Wax tape.

   NOTE: The thin factory-applied asphaltic coating applied to ductile iron pipe for transportation and aesthetic purposes does not constitute a corrosion control coating.

b. Although it is customary to cathodically protect coated structures, cathodic protection is not recommended at this time due to moderately corrosive soils. Joint bonds, test stations, and insulated joints should still be installed and will facilitate the application of cathodic protection in the future if needed to control leaks. Install electrical resistance (ER) probes designed for cast and ductile iron piping to discern if/when cathodic protection will be warranted in the future.

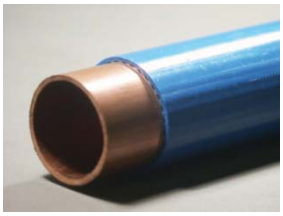
OPTION 2

a. As an alternative to coating systems described in Option 1 and possible future cathodic protection, concrete encase all buried portions of metallic piping so that there is a minimum of 3 inches of concrete cover provided over and around surfaces of pipe, fittings, and valves using any type of cement.

Copper Tubing

Protect buried copper tubing by *one* of the following measures:

1. Prevention of soil contact. Soil contact may be prevented by placing the tubing above ground or encasing the tubing using PVC pipe with solvent-welded joints.
2. Installation of a factory-coated copper pipe with a minimum 25-mil thickness such as Kamco's Aqua Shield™, Mueller's Streamline Protec™, or equal. The coating must be continuous with no cuts or defects.



3. Installation of 12-mil polyethylene pipe wrapping tape with butyl rubber mastic over a suitable primer. Protect wrapped copper tubing by applying cathodic protection per NACE Standard SP0169.

Plastic and Vitrified Clay Pipe

1. No special precautions are required for plastic and vitrified clay piping placed underground from a corrosion viewpoint.

2. Protect all metallic fittings and valves with wax tape per AWWA C217 or epoxy.

All Pipe

1. On all pipes, appurtenances, and fittings not protected by cathodic protection, coat bare metal such as valves, bolts, flange joints, joint harnesses, and flexible couplings with wax tape per AWWA C217 after assembly.

2. Where metallic pipelines penetrate concrete structures such as building floors, vault walls, and thrust blocks use plastic sleeves, rubber seals, or other dielectric material to prevent pipe contact with the concrete and reinforcing steel.

Concrete

1. From a corrosion standpoint, any type of cement may be used for concrete structures and pipe because the sulfate concentration is negligible, 0 to 0.1 percent.[3,4,5]
2. Standard concrete cover over reinforcing steel may be used for concrete structures and pipe in contact with these soils due to the low chloride concentration[6] found onsite.

[3] *2009 International Building Code (IBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1*

[4] *2009 International Residential Code (IRC) which refers to American Concrete Institute (ACI-318) Table 4.3.1*

[5] *2010 California Building Code (CBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1*

[6] *Design Manual 303: Concrete Cylinder Pipe. Ameron. p.65*

CLOSURE

Our services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call if you have any questions.

Respectfully Submitted,
HDR Engineering, Inc.

Ian Budner

Steven R. Fox, P.E.

Enc: Table 1 - Soil Resistivity Field Tests
Table 2 - Laboratory Tests on Soil Samples
Vicinity Map and Field Testing Locations

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Table 1 - Soil Resistivity Field Tests

Southern California Edison
Circle City Substation
HDR|Schiff #12-0490SCS, HDR #186982
21-Jun-12

LOCATION	DEPTH (feet)	MEASURED RESISTANCE (ohms)	AVERAGE RESISTIVITY TO DEPTH (ohm-cm)	STRATUM RESISTIVITY (ohm-cm)
				17,235
R1	1.0	90	17,235	
				7,211
*SW/NE orientation	1.5	41	11,777	
*Compacted, clayish soil				18,974
	2.5	29	13,884	
				36,445
	5.0	21	20,108	
				76,409
	7.0	19	25,470	
				N/A
	10	20	38,300	
				44,683
	15	14	40,215	
				24,606
	25	6.7	32,076	
				20,341
	50	2.6	24,895	
				10,669
	75	1.2	17,235	
				N/A
	100	2.5	47,875	

CORROSIVITY LEGEND (FERROUS METALS)			
Mildly	Moderately	Corrosive	Severely

Table 1 - Soil Resistivity Field Tests

Southern California Edison
Circle City Substation
HDR|Schiff #12-0490SCS, HDR #186982
21-Jun-12

LOCATION	DEPTH (feet)	MEASURED RESISTANCE (ohms)	AVERAGE RESISTIVITY TO DEPTH (ohm-cm)	STRATUM RESISTIVITY (ohm-cm)
				101,495
R2	1.0	530	101,495	
				8,365
*NW/SE Orientation	1.5	75	21,544	
*Dry, tilled silty soil				N/A
	2.5	95	45,481	
				39,239
	5.0	44	42,130	
				89,075
	7.0	37	49,599	
				57,393
	10	27	51,705	
				27,841
	15	14	40,215	
				21,935
	25	6.3	30,161	
				11,147
	50	1.7	16,278	
				1,815
	75	0.31	4,452	
				10,018
	100	0.27	5,171	

CORROSIVITY LEGEND (FERROUS METALS)			
Mildly	Moderately	Corrosive	Severely

Table 2 - Laboratory Tests on Soil Samples

Southern California Edison
Circle City Substation
Your #4500484209, HDR|Schiff #12-0490SCS
22-Jun-12

Sample ID			S1 @ 0-6" Clay	S2 @ 0-6" Silt
Resistivity		**Units**		
as-received		ohm-cm	1,600,000	4,400,000
saturated		ohm-cm	3,320	3,040
pH			7.6	6.8
Electrical Conductivity		mS/cm	0.07	0.08
Chemical Analyses				
Cations				
calcium	Ca^{2+}	mg/kg	73	60
magnesium	Mg^{2+}	mg/kg	6.5	7.4
sodium	Na^{1+}	mg/kg	17	5.0
potassium	K^{1+}	mg/kg	13	53
Anions				
carbonate	CO_3^{2-}	mg/kg	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	131	101
fluoride	F^{1-}	mg/kg	8.6	4.0
chloride	Cl^{1-}	mg/kg	2.7	4.6
sulfate	SO_4^{2-}	mg/kg	41	6.6
phosphate	PO_4^{3-}	mg/kg	ND	15
Other Tests				
ammonium	NH_4^{1+}	mg/kg	ND	ND
nitrate	NO_3^{1-}	mg/kg	1.9	72
sulfide	S^{2-}	qual	na	na
Redox		mV	na	na

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

431 West Baseline Road ·Claremont, CA 91711
Phone: 909.626.0967 ·Fax: 909.626.3316

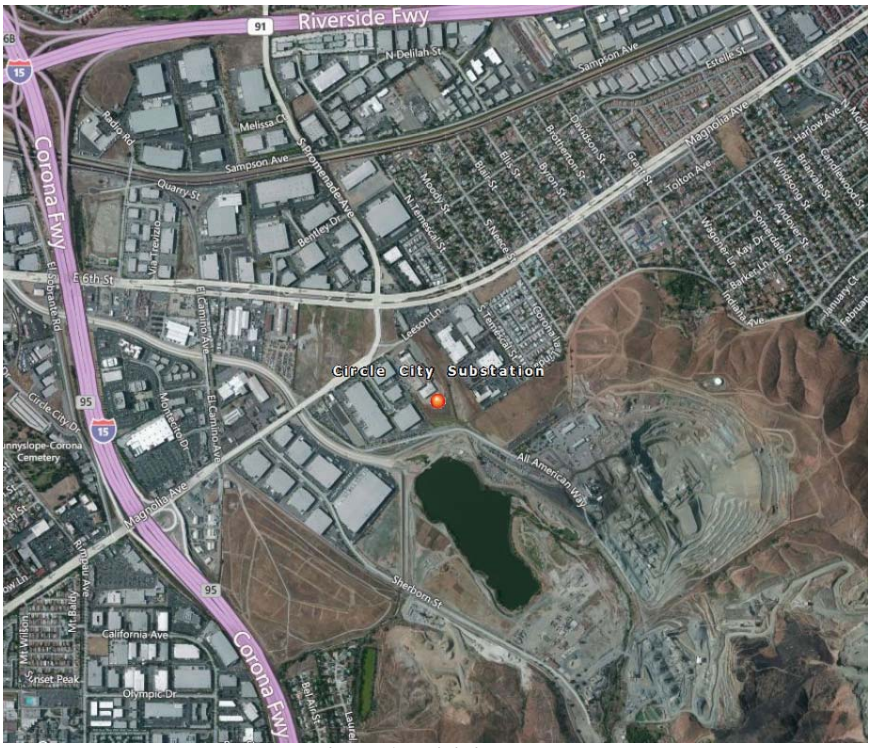

Figure 1 - Vicinity Map

Figure 2 - Field Testing Locations

APPENDIX E

SITE PICTURES

Picture -1 (2010)

Picture -2 (2010)

Picture -3 (2010)

Picture -4 (2010)

Picture -5 (2010)

Picture -6 (2010)

Picture -7 (B-1, 2011)

Picture -8 (B-1, 2011)

Picture -9 (B-2, 2011)

Picture -10 (B-2, 2011)

Picture -11 (TR-1, 2011)

Picture -12 (TR-1, 2011)

Picture -13 (TR-2, 2011)

Picture -14 (TR-2, 2011)

4.7 Greenhouse Gas Emissions

This section describes the greenhouse gas (GHG) regulations that are applicable to electrical transmission projects and evaluates the potential impacts from construction and operation of the Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project (Proposed Project). The potential impacts from the Proposed Project alternatives are also assessed. Based on this analysis, GHG emissions from the Proposed Project would be less than significant.

4.7.1 Environmental Setting

GHGs refer to gases that trap heat in the atmosphere, causing a greenhouse effect. They include, but are not limited to, carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Atmospheric concentrations of the two most important directly emitted, long-lived GHGs—CO_2 and CH_4—are currently well above the range of atmospheric concentrations that occurred over the past 650,000 years. According to the Intergovernmental Panel on Climate Change (IPCC), increased atmospheric levels of CO_2 are correlated with rising temperatures, and concentrations of CO_2 have increased by 31 percent above pre-industrial levels since the year 1750. Climate models show that temperatures will likely increase by 1.4 degrees Celsius (°C) to 5.8°C by the year 2100.

Global warming potential (GWP) estimates how much a given mass of a GHG contributes to climate change. The term enables a comparison of the warming effects of different gases. GWP uses a relative scale that compares the warming effect of the gas in question with that of the same mass of CO_2. The CO_2 equivalent (CO_2e) is a measure that is used to compare the effects of various GHG emissions based on their GWP when projected over a specified time period (generally 100 years). CO_2e is commonly expressed in million metric tons of CO_2e ($MMTCO_2e$). The CO_2e for a gas is obtained by multiplying the mass of the gas (in tons) by its GWP.

4.7.2 Regulatory Setting

4.7.2.1 Federal

Endangerment Finding

On April 17, 2009, the United States (U.S.) Environmental Protection Agency (EPA) issued its proposed endangerment finding for GHG emissions. On December 7, 2009, the EPA Administrator signed the following two district findings regarding GHGs under Section 202(a) of the Clean Air Act:

- Endangerment Finding: The EPA found 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 EPA found that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to GHG pollution, which threatens public health and welfare.

The endangerment findings do not themselves impose any requirements on industry or other entities. However, this action is a prerequisite to finalizing the EPA's proposed GHG emissions standards for light-duty vehicles, which were jointly proposed by the EPA and the U.S. Department of Transportation's National Highway Safety Administration on September 15, 2009.

Mandatory Reporting of Greenhouse Gases (Title 40, Part 98 of the Code of Federal Regulations)

The U.S. EPA's rule titled Mandatory Reporting of Greenhouse Gases (Title 40, Part 98 of the Code of Federal Regulations) requires mandatory reporting of GHGs for certain facilities. Subpart DD of the rule, titled Electrical Transmission and Distribution Equipment Use, applies to SF_6 reporting from gas-insulated substations.

Under the final Mandatory Reporting Rule for Additional Sources of Fluorinated GHGs, owners and operators of electric power system facilities with a total nameplate capacity that exceeds 17,820 pounds (7,838 kilograms) of SF_6 and/or PFCs must report these emissions from the use of electrical transmission and distribution equipment. Owners or operators must collect emissions data; calculate GHG emissions; and follow the specified procedures for quality assurance, missing data, recordkeeping, and reporting.

The rule requires each electric power system facility operator to report total PFC and SF_6 emissions (including emissions from equipment leaks, installation, servicing, decommissioning, and disposal, and from storage cylinders) from the following types of equipment:

- gas-insulated substations;
- circuit breakers;
- switchgears, including closed-pressure and hermetically sealed pressure switchgears;
- gas-insulated lines containing PFCs or SF_6;
- gas containers, such as pressurized cylinders;
- gas carts;
- electric power transformers; and
- other containers of PFCs or SF_6.

Because the proposed Circle City Substation will be an air-insulated substation, only the Proposed Project's 69 kilovolt (kV) circuit breakers will contain SF_6. Facilities subject to Subpart DD began monitoring GHG emissions on January 1, 2011, in accordance with the methods specified in Subpart DD. The deadline for reporting is March 31 of each year, unless that date falls on a weekend, in which case the report is due the next business day. Currently, Southern California Edison (SCE) complies with this requirement.

4.7.2.2 State

The most common GHGs that result from human activity, as defined by Section 38505 (g) of the California Health and Safety Code, are CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6.

Assembly Bill 32

In September 2006, then-Governor Arnold Schwarzenegger signed California Assembly Bill (AB) 32, the Global Warming Solutions Act, into law. Pursuant to AB 32, the California Air Resources Board (CARB) adopted a comprehensive AB 32 Scoping Plan in December 2008, which outlined programs designed to achieve the 2020 GHG reduction goal of 174 $MMTCO_2e$ through regulations, market mechanisms, and other actions.

For the electricity sector, the scoping plan adopted the California Public Utilities Commission's (CPUC's) recommendations for investor-owned and publicly owned utilities to continue and increase implementation of programs designed to reduce emissions. These recommendations included energy efficiency programs, increasing the use of electricity supplies obtained from renewable generation sources to 33 percent by 2020, and the adoption of a cap and trade system to ensure an overall reduction of emissions from electricity generation.

The AB 32 Scoping Plan Measure H-6 led to CARB's Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear (Title 17, Sections 95350 to 95359 of the California Code of Regulations). CARB's SF_6 regulation set the maximum emissions rate for SF_6-containing equipment at 10 percent in 2011. The maximum allowable emissions rate decreases by 1 percent each year. In 2020, the threshold will remain at 1 percent.

State Standards Addressing Vehicular Emissions

AB 1493 was enacted on July 22, 2002, and required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light-duty trucks. CARB adopted the regulations on September 24, 2009 to reduce GHG emissions in new passenger vehicles from 2009 through 2016. CARB has estimated that the regulations will reduce emissions from the light-duty passenger vehicle fleet by approximately 18 percent in 2020 and by 27 percent in 2030.

Senate Bills 1078 and 107 and Executive Order S-14-08

Senate Bill (SB) 1078 requires retail sellers of electricity to generate at least 20 percent of their supply from renewable sources by 2017. SB 107 changed the target date to 2010. In November 2008, then-Governor Arnold Schwarzenegger signed Executive Order S-14-08, which expanded the Renewables Energy Standard to 33 percent by 2020. In April 2011, the California Legislature enacted SB 2, which requires that the Renewables Portfolio Standard must reach 33 percent by 2020 for investor-owned and publicly owned utilities.

Executive Order B-30-15

On April 29, 2015, Governor Jerry Brown issued Executive Order B-30-15 into law. This executive order sets a new interim statewide GHG emission reduction target of 40 percent below 1990 levels by 2030 to ensure that California meets its target of 80 percent below 1990 levels by 2050.

Executive Order S-21-09

Executive Order S-21-09 directs CARB to work with the CPUC and the California Energy Commission to implement the Renewables Portfolio Standard of 33 percent by 2020. On May 5,

2011, the CPUC adopted Order Instituting Rulemaking 11-05-005 to open a new proceeding from the Renewables Portfolio Standard.

CARB is also working with the California Independent System Operator and other load balancing authorities to address reliability, renewable integration requirements, and interactions with wholesale power markets. CARB established a "loading order" in its Energy Action Plan for resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health.

California Mandatory Greenhouse Gas Reporting Regulation (Title 17, Sections 95100 through 95133 of the California Code of Regulations)

Pursuant to AB 32, CARB adopted the Mandatory Greenhouse Gas Reporting Regulation. The facilities required to annually report their GHG emissions include electricity-generating facilities, electricity retail providers and power marketers, oil refineries, hydrogen plants, cement plants, cogeneration facilities, and industrial sources that emit over 25,000 metric tons per year of CO_2e ($MTCO_2e$) from stationary source combustion. In particular, retail providers of electricity are required to report fugitive emissions of SF_6 related to transmission and distribution systems, substations, and circuit breakers located in California that the retail provider or marketer is responsible for maintaining in proper working order. SCE complies with these requirements.

4.7.2.3 Local

The CPUC has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC General Order No. 131-D, Section XIV.B, "Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the CPUC's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the counties and cities' regulations are not applicable as the counties and cities do not have jurisdiction over the Proposed Project. Accordingly, the following discussion of local land use regulations is provided for informational purposes only.

South Coast Air Quality Management District

In October 2008, the South Coast Air Quality Management District (SCAQMD) prepared its Draft Interim California Environmental Quality Act (CEQA) Greenhouse Gas Significance Threshold. To evaluate operational impacts of proposed industrial projects, the SCAQMD recommended an interim threshold of 10,000 $MTCO_2e$ per year. Per SCAQMD guidance, construction emissions should be amortized over the operational life of a project, which is proposed at 30 years.

City of Corona

In February 2012, the City of Corona released its Climate Action Plan. The Corona Climate Action Plan (C-CAP) Environmental Impact Report was proposed to effectively meet GHG reduction targets. The C-CAP will ensure that the impact of future development projects on air

quality is minimized, that energy is conserved, and that land use decisions made by the City of Corona and all internal operations within the city are consistent with adopted state legislation. The plan identifies measures to accomplish the following:

- satisfy the requirements of the CEQA Guidelines;
- inform the general public, local community, and responsible and interested public agencies of the framework of the C-CAP, its possible environmental effects and measures to mitigate those effects, and alternatives to a project;
- enable the City of Corona to consider environmental consequences when deciding whether to approve the C-CAP; and
- provide a basis for the preparation of future environmental documents.

The C-CAP achieves these goals by providing the following:

- an analysis of GHG emissions and sources attributed to the City of Corona;
- estimates on how those emissions are expected to increase; recommendations on policies and actions that can reduce GHG emissions to meet international, federal, and state targets;
- a timeline of implementation; and
- a defined tracking and reporting mechanism that will measure progress toward the goals.

4.7.3 Significance Criteria

The significance criteria for assessing the impacts from GHG emissions are derived from Appendix G of the CEQA Environmental Checklist. According to the CEQA Environmental Checklist, a project causes a potentially significant impact if it would:

- 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 GHG emissions

The SCAQMD has published interim CEQA GHG emissions threshold guidelines for projects for which SCAQMD is the lead agency. The SCAQMD developed thresholds with the involvement of CARB, the Governor's OPR, other agencies, and stakeholders. In the absence of statewide project-specific significance thresholds, the analysis of potential impacts in this Proponent's Environmental Assessment compares the emissions to the SCAQMD significance thresholds and CARB's significance thresholds.

The applicable numeric significance threshold for projects within the SCAQMD is 10,000 $MTCO_2e$. This threshold includes construction emissions, amortized over 30 years, plus

operational emissions. SCAQMD's interim CEQA GHG emissions threshold guidelines are currently a numeric threshold of 7,000 $MTCO_2e$.

4.7.4 Impact Analysis

4.7.4.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? – Less-than-Significant Impact

GHG emissions would occur during construction as a result of the fuel combustion required to operate the on-site construction equipment and mobilize work crews to and from the Proposed Project site. As described in Attachment 4.3-A: Air Quality Calculations, emission factors obtained from the SCAQMD were used in conjunction with the Proposed Project parameters from Chapter 3 – Project Description to simulate GHG emissions during construction. As shown in Table 4.7-1: GHG Emissions from Construction, the total estimated GHG emissions would be 2,653.50 $MTCO_2e$.

Table 4.7-1: GHG Emissions from Construction

GHG Source	CO_2 Emissions (metric tons)	CH_4 Emissions (metric tons)	CO_2e Emissions (metric tons)
Off-Road Construction Equipment	1,512.27	0.45	1,521.82
On-Road Vehicle Use	1,130.94	0.04	1,131.67
Total	**2,643.21**	**0.49**	**2,653.50**

Similar to the construction phase of the Proposed Project, GHG emissions during operation would result from fuel combustion during vehicle and equipment operation. GHG emissions from vehicle use were calculated by applying GHG emission factors to the estimated distances traveled annually for routine maintenance inspections. SCE currently operates and inspects existing subtransmission facilities in the vicinity of the Proposed Project, and though the operation of the Proposed Project would not increase these activities, the emissions related to operation and inspection activities have been quantified to present a worst-case scenario. New circuit breakers installed at the proposed Circle City Substation would be insulated with SF_6. Leakage of SF_6 from the circuit breakers during operation of the Proposed Project would also generate GHG emissions. GHG emissions from SF_6 leakage were calculated by multiplying the amount of SF_6 contained in new circuit breakers and gas switches by the estimated annual leakage rate. As shown in Table 4.7-2: GHG Emissions from Operation, the estimated annual emissions of GHG—including construction emissions amortized over a period of 30 years—from the operational activities would be approximately 96.99 $MTCO_2e$, primarily from SF_6. This estimate is much lower than the 10,000-metric ton SCAQMD threshold or the 7,000-metric ton draft CARB threshold. Because the GHG emissions from the Proposed Project would be well below the SCAQMD threshold and draft CARB recommendation, impacts from GHG emissions would be less than significant.

Table 4.7-2: GHG Emissions from Operation

GHG Source	CO_2 Emissions (metric tons)	CH_4 Emissions (metric tons)	SF_6 Emissions (metric tons)	Total CO_2e Emissions (metric tons)
On-Road Vehicle Use	1.60	0.00	--	1.60
SF_6 Circuit Breaker Fugitive Emissions	--	--	0.00	6.94
Subtotal	**1.60**	**0.00**	**0.00**	**8.54**
CARB Interim Threshold	--	--	--	7,000
Threshold Exceeded?	**--**	**--**	**--**	**No**
Amortized Construction Equipment	88.11	0.02	--	88.45
Total	**89.71**	**0.02**	**0.00**	**96.99**
SCAQMD Threshold	--	--	--	**10,000**
Threshold Exceeded?	**--**	**--**	**--**	**No**

4.7.4.2 Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? – No Impact

CARB staff, in collaboration with interested stakeholders, developed a control measure to address SF_6 emissions from electrical transmission facilities. The regulation for reducing SF_6 emissions from gas-insulated switchgear (GIS) is an additional early-action measure (as part of the U.S. EPA's rule titled Mandatory Reporting of Greenhouse Gases) to achieve overall GHG reductions by specifically lowering SF_6 emissions from GIS. GIS owners must not exceed the maximum annual SF_6 emission rate for active GIS equipment, establish and adhere to written procedures to track all gas containers as they are leaving and entering storage, calibrate and weigh all gas containers on a scale, establish and maintain a complete record of GIS equipment inventory, and submit annual reports to the CARB Executive Officer for emissions that occurred during the previous calendar year.

The Climate Action Team, which consists of representatives from various state boards and departments, including the CPUC, has issued various reports outlining strategies to reduce climate change-related emissions in California. The reports serve as the primary state guidance to date. No other plans, policies, or regulations with the purpose of reducing GHG emissions have been adopted that would be applicable to the Proposed Project. The Proposed Project is therefore analyzed in light of whether it is consistent with the applicable GHG-reduction measures recommended by the Climate Action Team's reports.

SCE's SF_6 Gas Management Guidelines require proper documentation and control of SF_6 inventories, whether in equipment or in cylinders.[1] Inventories are documented on both a quarterly and yearly basis. SCE assumes that any SF_6 that is purchased and not used to fill new equipment is needed to replace SF_6 that has inadvertently leaked from equipment already in service. This assumption forms the basis for SCE's tracking and management of SF_6 emissions. Currently, SCE reports these emissions to the EPA and CARB on an annual basis.

SCE has taken proactive steps in the effort to minimize GHG emissions since 1997. In 1997, SCE established an SF_6 Gas Resource Team to address issues pertaining to the environmental impacts of SF_6. The team developed the Gas Management Guidelines that allow for rapid location and repair of equipment leaking SF_6. In addition, SCE's parent organization, Edison International, joined the EPA's voluntary SF_6 gas management program in 2001, committing SCE to join the national effort to minimize emissions of this GHG. Importantly, SCE's SF_6 emissions in 2006 were 41 percent less than in 1999, while the inventory of equipment containing SF_6 actually increased by 27 percent during the same time period.

SCE has made a significant investment in not only improving its SF_6 management practices, but also in purchasing state-of-the-art gas-handling equipment that minimizes SF_6 leakage. The new equipment has improved sealing designs that virtually eliminate possible sources of leakage. SCE has also addressed SF_6 leakage on older equipment by performing repairs and replacing antiquated equipment through its infrastructure replacement program. It is expected that the Proposed Project would have a minimal amount (approximately 6.94 $MTCO_2e$) of SF_6 leakage as a result of the installation of state-of-the-art equipment and SCE's SF_6 gas management practices. Pursuant to its existing practices, SCE would reduce potential GHG impacts resulting from the Proposed Project to the greatest extent practicable.

The SCE fleet also incorporates a significant number of clean diesel, electric, and hybrid-electric service vehicles. In addition to meeting CARB emission standards for air quality criteria pollutants, SCE is aggressively lowering GHG emissions from SCE fleet operations.

Because SCE complies with all Climate Action Team guidance, the Proposed Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing emissions of GHGs. As a result, there would be no impact.

4.7.5 Applicant-Proposed Measures

Because no significant impacts from GHG emissions would occur as a result of the Proposed Project, no avoidance and minimization measures are proposed.

4.7.6 Alternative Substation Site

Construction, operation, and maintenance of Substation Site Alternative B would be similar in scope to that of the proposed Circle City Substation site (i.e., Substation Site Alternative A); therefore, impacts would be similar to the proposed Circle City Substation site.

[1] Until CARB finalizes its proposed SF_6 emission-reduction rules, SCE will continue to follow its internal policy.

4.7.7 Source Line Route Alternatives

Construction activities for the Source Line Route alternatives would be similar in scope to that of the proposed Source Line Route; however, the Source Line Routes Alternative 2 and 4 would involve installing a greater portion of the lines underground. This additional underground work would require the increased use of construction equipment. As a result, construction of these source line route alternatives would generate increased GHG emissions. Construction of Source Line Route Alternative 3 would be similar to that of the Proposed Project. Because these emissions would be amortized over 30 years when compared to the applicable thresholds, the resulting impacts would be minimal and similar to the proposed Source Line Route.

4.7.8 Alternative Mira Loma-Jefferson 66 kV Subtransmission Line Routes

Construction of Mira Loma-Jefferson 66 kV Subtransmission Line Alternative 3 would be similar in scope to the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route. As a result, construction emissions associated with Alternative 3 would be similar to the Proposed Project. Construction of Alternative 2 would involve installing a greater portion of the line underground. This additional underground work would require increased construction equipment and GHG emissions. The resulting impacts would be less than significant and greater than the Proposed Project's impacts. Because these emissions would be amortized over 30 years when compared to the applicable thresholds, the resulting impacts would be minimal and similar to the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route.

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4.8 Hazards and Hazardous Materials

This section describes the hazards and hazardous materials in the area of the Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project (Proposed Project), as well as the potential impacts and alternatives. As described in this section, the impacts associated with hazards would be less than significant with implementation of the applicant-proposed measures (APMs) described in Section 4.8.5 Applicant-Proposed Measures.

4.8.1 Environmental Setting

The following subsections describe the existing hazardous sites and fire hazards located within the Proposed Project area, as well as schools, airports, and emergency/evacuation plans located in the vicinity of and relevant to the Proposed Project.

4.8.1.1 Existing Hazardous Sites

The Proposed Project area, which is located in portions of northwestern Riverside and southwestern San Bernardino counties, crosses both populated communities and agricultural areas. In Riverside County, the Proposed Project is located within the cities of Corona, Eastvale, and Norco, and it is located in the cities of Chino and Ontario in San Bernardino County. According to the California Department of Toxic Substances Control (DTSC) EnviroStor database, Riverside County contains four federal Superfund sites and 24 state response sites. Of these, five listed state response sites are also located in either the City of Corona or the City of Norco, within 10 miles of the Proposed Project. In addition, San Bernardino County contains five federal Superfund sites and 38 state response sites. Of these, four state response sites are located within the vicinity of the Proposed Project in the City of Ontario. Based on a review of the DTSC EnviroStor database and Internet searches of federal, state, and local hazardous materials databases, there are five active hazardous materials cases within 0.25 mile of the Proposed Project. The active hazardous sites located within the vicinity of the Proposed Project are listed in Table 4.8-1: Active Hazardous Sites within 0.25 Mile.

Phase I Environmental Site Assessment

On February 6, 2015, Corporate Environmental Health and Safety (CEHS) Environmental Engineering completed a Phase I Environmental Site Assessment (ESA) for the two parcels on which the proposed Circle City Substation would be constructed. The Phase I ESA consisted of site reconnaissance, historical, and regulatory record searches; interviews with owners and site personnel; and a review of aerial photographs, topographic maps, and ownership records. No off-site “Recognized Environmental Conditions” (RECs) were identified in the vicinity of the two parcels; however, potential on-site RECs were identified in connection with the proposed Circle City Substation.

According to available regulatory documentation, a historical underground storage tank (UST) containing unleaded gasoline was identified on the northern parcel adjacent to the southern portion of Leeson Lane. When the Phase I ESA was initially completed, information regarding the current status of the UST was not available. Therefore, the UST was considered to be an REC. However, on February 13, 2015, CEHS received documentation from the current owner that confirmed the removal of a 500-gallon UST in 1986. In addition, this documentation

revealed that no benzene, toluene, or xylenes were detected in soil samples collected beneath the tank. An addendum to the Phase I ESA was completed by CEHS on February 19, 2015 to address the UST removal and modify the initial REC determination. Based on the tank removal, CEHS concluded that the UST was no longer a potential REC.

Table 4.8-1: Active Hazardous Sites within 0.25 Mile

Site	Cleanup Status	Media Affected	Approximate Distance from the Proposed Project
Edison/Corona #1 Manufactured Gas Plant	Active as of 2010	Soil contaminated with arsenic and polynuclear aromatic hydrocarbons	425 feet
Corona Annex	Active as of November 17, 2014	Soil contaminated with explosives and munitions	0.2 mile
Corona Landfill – Closed	Monitoring as of November 1, 2014	Soil gas and groundwater contaminated with volatile organic compounds (VOCs)	Adjacent to the north of Magnolia Avenue
Corona MFG Company	Inactive as of January 1, 1965	Not specified	150 feet
Former IMCO Waste Disposal Area	Certified operation and maintenance and land use restrictions only as of June 21, 2010	Soil gas contaminated with VOCs and soil contaminated with metals	150 feet

Sources: DTSC, 2015; State Water Resources Control Board (SWRCB), 2015

During a site reconnaissance on January 23, 2015, a substantial amount of debris, stockpiles, building foundations, and exposed utilities were observed on the two parcels. Although asbestos and lead-based paint analyses were out of scope in the Phase I ESA, CEHS initially recommended that the on-site debris be tested for asbestos and lead-based paint. However, following the completion of the Phase I ESA, CEHS received a "Notification of Demolition or Asbestos" form that was filed for the South Coast Air Quality Management District in July 2014. This form was filed by the City of Corona's Building Department and reported that a previously conducted asbestos survey detected no asbestos in on-site structures prior to demolition. Therefore, the presence of asbestos in the structural debris was no longer considered an environmental concern in the Phase I ESA Addendum Letter. The Phase I ESA and Addendum Letter are provided in Attachment 4.8-A: Phase I Environmental Site Assessment and Addendum Letter.

4.8.1.2 Fire Hazards

The California Department of Forestry and Fire Protection (CAL FIRE) Fire and Resource Assessment Program (FRAP) has developed a fire hazard scale that characterizes areas throughout a county into classes of little or no threat, moderate, high, very high, or extreme threat to people. The fire threat classes measure the fire frequency, potential for an area to burn, and potential fire behavior. Portions of the Proposed Project located in the fire threat classes are

depicted in Figure 4.8-1: Wildland Fire Threat Map (Source Line Route) and Figure 4.8-2: Wildland Fire Threat Map (Subtransmission Line), and are listed in Table 4.8-2: Wildland Fire Threat Classes Crossed.

Table 4.8-2: Wildland Fire Threat Classes Crossed by the Proposed Project

Proposed Project Components	Wildland Fire Threat to People Class	Approximate Distance Crossed by the Proposed Project (miles)
Source Line Route (overhead)	Extreme	1.5
	Very High	2.3
Source Line Route (underground)	Extreme	0.5
	Very High	0.4
Mira Loma-Jefferson 66 kilovolt (kV) Subtransmission Line (overhead)	Extreme	1.5
	Very High	3.5
	High	0.1
	Moderate	5.1
Mira-Loma-Jefferson 66 kV Subtransmission Line (underground)	Very High	0.7

Sources: CAL FIRE, 2005; Riverside County, 2012b; San Bernardino County Fire Department, 2012b

According to information provided by CAL FIRE, Riverside County, and San Bernardino County, the majority of the Proposed Project—approximately 10.5 miles—lies within areas designated as having a very high or extreme fire threat to people. The proposed Circle City Substation is located within an area designated as having an extreme fire threat to people. The remainder of the Proposed Project—approximately 5.2 miles—is located in areas with a moderate (approximately 5.1 miles) or high (approximately 0.1 mile) threat to people. The seven potential staging yard locations are generally located within the same fire threat classes as the nearest Proposed Project component.

CAL FIRE also receives Red Flag Warnings and Fire Weather Watches issued by the National Weather Service. These warnings are issued to alert fire departments of the onset, or possible onset, of critical weather and dry conditions that could lead to rapid or dramatic increases in wildfire activity. Red Flag Warnings are the highest level of alert and are issued for weather events that may result in extreme fire behavior that could occur within 24 hours. Fire Weather Watches are issued when weather conditions could exist in the next 12 to 72 hours.

4.8.1.3 Schools

The Proposed Project is located within 0.25 mile of four schools—Auburndale Intermediate, George Washington Elementary School, Victress Bower Elementary, and Colony High School.[1] The portion of the Proposed Project that runs along the eastern side of River Road is located adjacent to Auburndale Intermediate School, which is located along River Road between North Lincoln Avenue and 2nd Street. George Washington Elementary School and Victress Bower Elementary are located approximately 0.1 mile from the Proposed Project. Both schools are located along West Parkridge Avenue (which runs parallel to and east of River Road) between North Lincoln Avenue and 2nd Street. Colony High School is located approximately 0.2 mile northwest of the existing Mira Loma Substation. Schools located within the vicinity of the Proposed Project are also discussed in Section 4.14 Public Services.

4.8.1.4 Airports

The nearest public airports are the Chino Airport, located approximately 0.7 mile northwest of the Proposed Project, and the Corona Municipal Airport, located approximately 1.1 miles southwest. In addition, Ontario International Airport is located approximately 0.9 mile northeast of a potential staging yard located at the SCE Ontario Service Center. Chino Airport contains three runways, the longest of which measures approximately 7,000 feet. Corona Municipal Airport contains one runway, measuring approximately 3,200 feet in length. Ontario International Airport contains two runways, the longest of which measures approximately 12,000 feet. The nearest private-use airport is Lake Mathews Airport, located approximately 6.3 miles southeast of the Proposed Project area. Lake Mathews Airport contains one runway, measuring approximately 3,300 feet in length.

4.8.1.5 Emergency/Evacuation Plans

The Riverside County Office of Emergency Services (OES) is a division of the Riverside County Fire Department, in cooperation with CAL FIRE. The Riverside County OES is responsible for developing emergency plans and actions in response to actual or potential disasters that may impact Riverside County. The OES coordinates emergency management training and interagency response for a range of emergencies, including earthquakes, terrorism, wildfires, flooding, and hazardous materials releases. The OES fulfills a wide variety of roles from field response to support and recovery from emergencies and disasters.

The San Bernardino County OES, a division of the San Bernardino County Fire Department, is responsible for disaster planning and emergency management and coordination throughout San Bernardino County. The San Bernardino County OES serves a population of more than 2 million and covers more than 20,100 square miles. The San Bernardino County OES does not directly manage field operations; however, the office ensures coordination of disaster response and recovery efforts through day-to-day program management and during a disaster or emergency.

[1] These schools do not include those within 0.25 mile of the potential staging areas at the Southern California Edison (SCE) Ontario Service Center or Jefferson Substation because these are existing facilities, and no ground disturbance is proposed at these sites.

Figure 4.8-1: Wildland Fire Threat Map (Source Line Route)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

Corona Substation

Site Alternative A (Proposed)

Site Alternative B

DETAIL

- Substation
- Undergrounding
- Source Line Route Alternative 1 (Proposed)
- Source Line Route Alternative 2
- Source Line Route Alternative 3
- Source Line Route Alternative 4
- Source Line Route Alternative Extensions to Substation Site Alternative B

Threat

- Little or No Threat
- Moderate Threat
- High Threat
- Very High Threat
- Extreme Threat

CAL Fire Responsibility Area

- State Responsibility Area

All other areas fall under the Local Responsibility Area designation.

1:14,000

0 1,000 2,000 Feet

Source: CDF, 2005; Insignia, 2015; SCE, 2015

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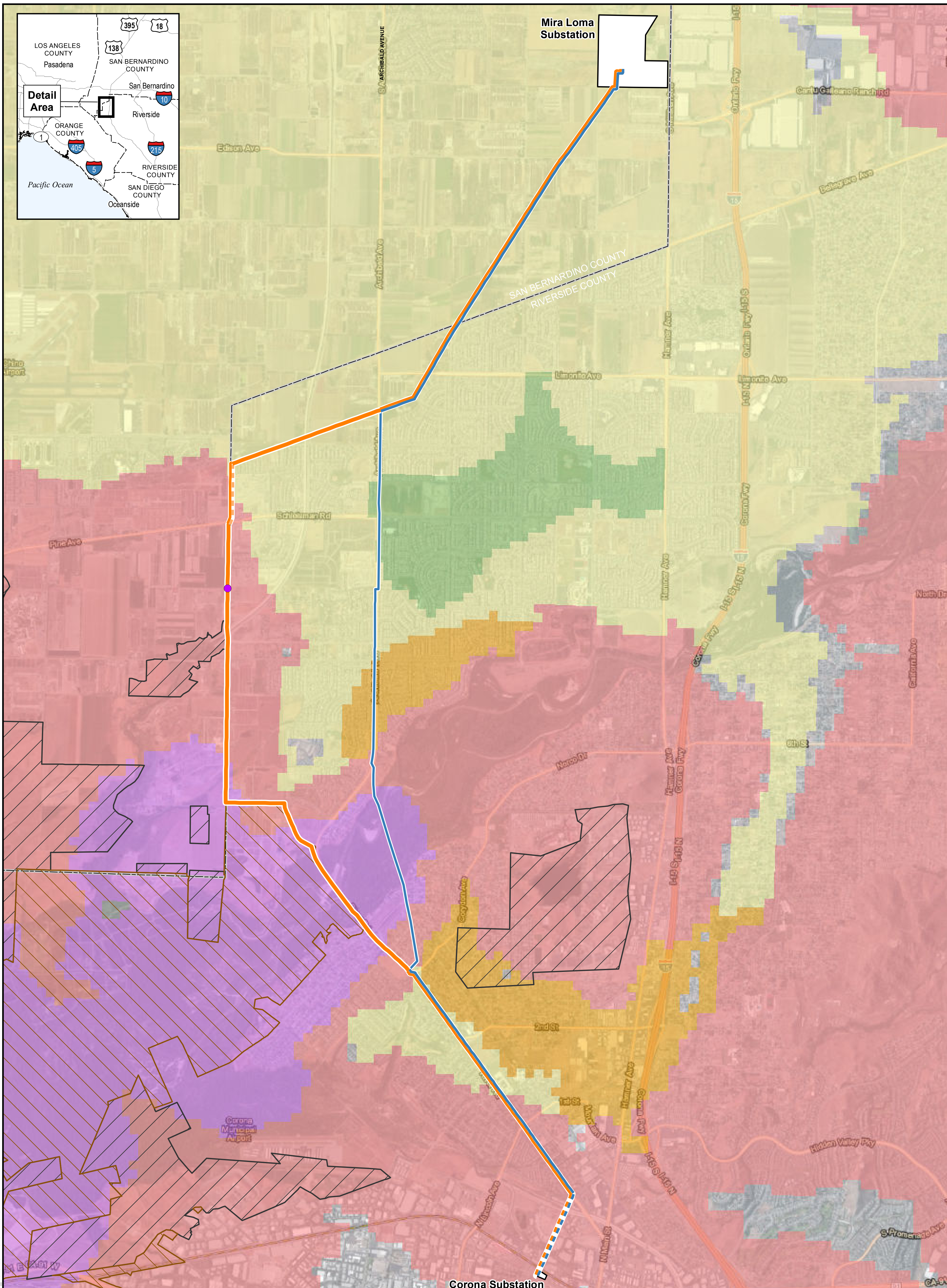

Figure 4.8-2: Wildland Fire Threat Map (Subtransmission Line)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

Mira Loma-Jefferson 66 kV Subtransmission Line

- Subtransmission Line Route Alternative 1 - Overhead (Proposed)
- Subtransmission Line Route Alternative 1 - Underground (Proposed)
- Subtransmission Line Route Alternative 2 - Underground*
- Subtransmission Line Route Alternative 3 - Overhead
- Subtransmission Line Route Alternative 3 - Underground
- Subtransmission Line - Underground Crossing

Threat

- Little or No Threat
- Moderate Threat
- High Threat
- Very High Threat
- Extreme Threat

CAL Fire Responsibility Area

- Federal Responsibility Area
- State Responsibility Area

All other areas fall under the Local Responsibility Area designation.

- Substation
- County Boundary

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INSIGNIA ENVIRONMENTAL

1:42,000

0 0.45 0.9 Miles

*Note: Except for the underground portion indicated, Alternative Route 2 would utilize the same route and construction techniques as the Proposed Route.

Source: CDF, 2005; Insignia, 2015; SCE, 2015

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The Mountain Area Safety Taskforce (MAST) is a coalition of federal, state, and local government agencies, private companies, and volunteer organizations working together to help prevent wildfires in Riverside and San Bernardino counties. The MAST develops evacuation plans and distributes emergency planning information to the public, including evacuation route maps and fire safety and prevention information.

The nearest state highways to the Proposed Project area for use during an evacuation, as specified by the MAST, include Interstate (I-) 10, I-15, State Route (SR-) 91, SR-60, SR-71, and SR-83. I-15 and SR-91 would be spanned by the proposed Source Line Route. In addition, SR-71 is located approximately 2.5 miles west of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route, and SR-83 (i.e., Euclid Avenue) is located approximately 2.3 miles west of the Mira Loma-Jefferson 66 kV Subtransmission Line. SR-60 is located approximately 1.9 miles north of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route where it enters Mira Loma Substation.

Emergency medical, fire protection, and hazardous materials services for the Proposed Project area are also provided by fire protection districts, which are further discussed in Section 4.14 Public Services.

4.8.2 Regulatory Setting

4.8.2.1 Federal

Code of Federal Regulations Title 14

All airports and navigable airspace not administered by the United States (U.S.) Department of Defense are under the jurisdiction of the Federal Aviation Administration (FAA). Title 14, Part 77 of the Code of Federal Regulations (CFR) establishes the standards and required notification for obstructions affecting navigable airspace. In general, construction projects exceeding 200 feet in height—or those extending at a ratio greater than 100 to 1 (horizontal to vertical) from a public or military airport runway more than 3,200 feet long out to a horizontal distance of 20,000 feet—are considered potential obstructions and require FAA notification. In addition, construction projects extending at a ratio greater than 50 to 1 (horizontal to vertical) from a public or military airport runway measuring 3,200 feet or less out to a horizontal distance of 10,000 feet are considered potential obstructions and require FAA notification. Title 14, Part 133 of the CFR also requires an operating plan to be developed in coordination with and approved by the local FAA Flight Standards District Office that has jurisdiction over the area where the helicopter use would be conducted.

Resource Conservation and Recovery Act

Developed by the U.S. Environmental Protection Agency (EPA), the Resource Conservation and Recovery Act (RCRA) regulates hazardous and non-hazardous waste in an effort to reduce potential health and environmental issues associated with exposure to such materials. This law is implemented through Subtitle C, Title 42, Section 6921 et seq. of the U.S. Code (U.S.C.) and its implementing regulations, as well as Title 40, Part 260 et seq. of the CFR. Subtitle C of the RCRA controls the generation, transportation, treatment, storage, and disposal of hazardous waste through a “cradle-to-grave” system of hazardous waste management techniques and

requirements. Subtitle C applies to all states and to all hazardous waste generators. This law also specifies the quantity of waste that is governed under this regulation.

Comprehensive Environmental Response, Compensation, and Liability Act and Superfund Amendments and Reauthorization Act

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA)—an amendment to CERCLA—identify the requirements for planning, reporting, and notification concerning hazardous materials and hazardous substance releases into the environment. CERCLA and SARA regulations are presented in Title 40, Parts 302 through 355 of the CFR.

Part 302 of the CFR mandates immediate notification to the Local Emergency Planning Committee (LEPC) when a hazardous substance exceeding its reportable quantities (RQ) is released into the environment. Notification must also be provided to the National Response Center in Washington, D.C., if CERCLA hazardous substances above RQ are released. These CERCLA-regulated materials are listed in Title 40, Part 302.4 of the CFR.

Part 311 of the CFR requires a facility to develop a list of and/or provide material safety data sheets of any hazardous substances stored, handled, or used at the facility. A copy of this information must be provided to the State Emergency Response Center, LEPC, and local fire departments.

Title 42, Section 11023 of the U.S.C. and Title 40, Section 372.30 of the CFR identify annual reporting requirements associated with hazardous substance released into the environment. Reporting requirements include both routine discharges and spill releases. Title III of SARA (identified as the Emergency Planning and Community Right-To-Know Act of 1986) mandates that states develop local chemical emergency preparedness programs, as well as provide information on hazardous substances used at facilities in local communities. In addition, SARA identifies the requirements for planning, reporting, and notification concerning hazardous substances.

Clean Air Act

National ambient air quality standards were established by the Clean Air Act (CAA) in 1970 for six pollutants: carbon monoxide, ozone, particulate matter (including those less than 10 microns in diameter and those less than 2.5 microns in diameter), nitrogen dioxide, sulfur dioxide, and lead. These pollutants are commonly referred to as criteria pollutants, because they are considered the most prevalent air pollutants known to be hazardous to human health. The CAA required states exceeding the standards to prepare air quality plans showing how the standards would be met by December 1987. The CAA Amendments of 1990 directed the U.S. EPA to set standards for toxic air contaminants and required facilities to sharply reduce emissions. Hazardous material emission regulations under the CAA provisions are provided in Title 40, Part 68 of the CFR and are designed to prevent accidental releases of hazardous materials into the atmosphere. CAA requirements concerning the Proposed Project are addressed in Section 3.3 Air Quality.

Clean Water Act

The Clean Water Act (CWA) partially addresses accidental releases of hazardous materials to surface waters. Requirements for Spill Prevention, Control, and Countermeasure (SPCC) Plans were developed as one of the regulations under the CWA. SPCC Plans are provided in Title 40, Part 112 (Oil Spill Prevention) of the CFR, have specific requirements for electrical substations, and are intended to reduce the threat of hydrocarbon spills to "navigable waters" of the U.S. The site-specific plan must identify the design, control, training, and response requirements of a facility. An SPCC Plan is required for all facilities with aboveground storage of hydrocarbons and oils (e.g., gasoline, diesel, asphalt, and transformer liquids) exceeding 1,320 gallons in one or more containers with 55-gallon capacities or greater.

Occupational Safety and Health Act

The hazardous material regulations of the Occupational Safety and Health Administration (OSHA), created by the Occupational Safety and Health Act of 1970, govern worker safety. Separate OSHA standards have been developed for construction and industrial workers, and Title 29, Part 1926 of the CFR generally governs construction worker safety. Title 29, Section 1926.55(a) of the CFR specifies that exposure of employees to inhalation, ingestion, skin absorption, or contact with any material or substance at a concentration above those specified in the "Threshold Limit Values of Airborne Contaminants for 1970" of the American Conference of Governmental Industrial Hygienists shall be avoided.

Hazardous Materials Transportation Act

U.S. Department of Transportation regulations govern the interstate transport of hazardous materials and wastes through the implementation of the Hazardous Materials Transportation Act (HMTA). The provisions of the HMTA contain requirements for hazardous material shipments and packaging, and guidelines for marking, manifesting, labeling, packaging, placarding, and spill reporting. Specific regulations dealing with hazardous materials are covered under Title 49, Part 173 et seq. (Hazardous Material Regulations, Shippers – General Requirements for Shipping and Packaging) and Part 397 (Transportation of Hazardous Materials; Driving and Parking Rules) of the CFR.

4.8.2.2 State

Senate Bill 1082

Senate Bill 1082 of 1993 (Health and Safety Code Chapter 6.11) required the California EPA to establish a unified hazardous waste and hazardous materials management regulatory program (Unified Program). There are currently 83 Certified Unified Program Agencies (CUPAs) in California, and each CUPA is responsible for implementing the Unified Program within its jurisdiction. The Unified Program consolidates the following six programs:

- Hazardous Materials Release Response Plans and Inventories,
- California Accidental Release Prevention Program,
- UST Program,
- Aboveground Petroleum Storage Act,
- Hazardous Waste Generator and Onsite Hazardous Waste Treatment Programs, and

- California Uniform Fire Code: Hazardous Material Management Plans and Hazardous Material Inventory Statements.

The Riverside County Department of Environmental Health acts as the CUPA for Riverside County and provides a wide range of services for the county. The Department of Environmental Health provides regulatory oversight for the following hazardous materials programs, such as:

- Aboveground Storage Tank Program,
- Business Emergency Plan/Handler Program,
- California Accidental Release Prevention Program,
- CUPA Environmental Clean-up Oversight, Hazardous Waste Generator Program, and
- UST Program.

In addition, the Riverside County Hazardous Materials Emergency Response Team responds to incidents involving hazardous materials throughout Riverside County.

The San Bernardino County Fire Department Hazardous Materials Division acts as the CUPA for San Bernardino County and regulates the handling and storage of hazardous materials through inspection, emergency response, site remediation, and hazardous waste management services. The Hazardous Materials Division operates collection facilities for county residents to safely dispose of household hazardous waste, provides 24-hour response to emergency incidents involving hazardous materials, implements the CUPA programs, and oversees the investigation and remediation of environmental contamination due to releases from USTs, hazardous waste containers, chemical processes, or the transportation of hazardous materials.

California Occupational Safety and Health Act

Construction and industrial worker safety issues are covered under the California Occupational Safety and Health Act of 1973. Most of these regulations are provided in Title 8 of the California Code of Regulations (CCR) and enforced by the Division of Occupational Safety and Health (also known as Cal/OSHA). While OSHA regulates hazards and hazardous materials in the workplace at the federal level, Cal/OSHA regulates them at the state level.

California Health and Safety Code

The California Health and Safety Code (H&SC), as well as the previously described RCRA, delegates responsibility to the DTSC to regulate hazardous waste, clean up existing contamination, and identify ways to reduce hazardous waste within California.

California Water Code Section 13000

The Regional Water Quality Control Boards (RWQCBs) develop and enforce water quality objectives and implementation plans to protect beneficial uses of the state's waters (California Water Code Section 13000 et seq.). The Proposed Project is located within the jurisdiction of the Santa Ana RWQCB. The RWQCBs have been delegated authority by the SWRCB to enforce regulations pertaining to nonpoint source discharges, as well as activities that have the potential to impact the quality of surface water or groundwater.

California Hazardous Materials and Waste

California laws and regulations associated with the storage, handling, use, and/or disposal of hazardous materials are provided in various sections of California's H&SC and CCR. While RCRA allows individual states to develop their own programs to regulate hazardous waste discharges, the state programs must be at least as stringent as the RCRA requirements.

California has developed its own hazardous waste control program through the passage of the California Hazardous Waste Control Law (HWCL). It should be noted, however, that the HWCL includes hydrocarbon wastes (e.g., oils, lubricants, and greases) that are not classified as hazardous waste under the federal RCRA regulations. California also regulates universal wastes (e.g., dental amalgams, aerosol cans, and cathode ray tubes) that are not specified in federal regulations. The HWCL is found in Section 25100 et seq. of the California H&SC. Administration and enforcement of the HWCL is the responsibility of the DTSC.

California H&SC Section 25500 et seq. (i.e., the Hazardous Materials Release Response Plans and Inventory Act) and the regulations in Title 19, Section 2620 et seq. of the CCR require that local governments are responsible for the regulation of facilities that store, handle, or use hazardous materials above threshold quantities (TQs). The TQs for identified hazardous materials are 55 gallons for liquids, 500 pounds for solids, and 200 cubic feet for compressed gases measured at standard temperatures and pressures. The law mandates that facilities storing these hazardous materials in excess of their TQs prepare a hazardous material business plan (HMBP). The HMBP must identify the facility's internal response requirements to accidental spills, such as emergency contacts, hazardous material inventory and quantities, control methods, emergency response, and training. The law also requires that the HMBP is submitted to the local administering agency (usually the local fire department or public health agency). All spills from a facility must be reported to both the local administrative agency and the California Governor's OES.

Section 25249.5 et seq. of the California H&SC (i.e., the Safe Drinking Water and Toxics Enforcement Act [Proposition 65]) regulates cancer-causing and reproduction-impairing chemicals. Users of regulated chemicals identified under this law are responsible for informing the public of potential exposure to such materials. The law is intended to prevent discharges or releases of specified hazardous materials into sources of drinking water and provides a periodically updated list of chemicals of concern. Proposition 65 is administered through California's Office of Environmental Health Hazard Assessment.

The California Unified Hazardous Waste and Hazardous Material Management Regulatory Program Act is provided in Section 25404 et seq. of California's H&SC. This act established requirements for dealing with hazardous waste locally by creating a CUPA. This responsibility is delegated through a memorandum of understanding between the California EPA and the local agency. The Riverside County Department of Environmental Health is the CUPA for all cities and unincorporated areas within Riverside County. The San Bernardino County Fire Department Hazardous Materials Division implements the CUPA programs for San Bernardino County.

Public Resource Code

Several regulations have been adopted in the California Public Resource Code (PRC) that cover safety aspects of electrical transmission lines. The most notable examples of these regulations include the following:

- PRC Section 4292, which requires clearing of flammable vegetation to reduce fire hazards around specific structures that support certain connectors or types of electrical apparatus. This cleared area (with a 10-foot radius) is required to be kept clear of flammable vegetation during the entire fire season.

- PRC Section 4293, which requires specific clearance between conductors and vegetation. The clearance requires increases as the line voltage increases. This code also requires the removal of trees adjacent to electrical transmission lines that may present a hazard if they fall on the line.

California Public Utilities Commission General Order 95

California Public Utilities Commission (CPUC) is a state organization that regulates privately owned energy facilities, including natural gas, water, and electrical facilities, as well as railroad and passenger transportation facilities. General Order (G.O.) 95—originally adopted by the CPUC on December 23, 1941 and amended through 2011—contains requirements and specifications for overhead electrical line construction. These requirements are intended to ensure safety to persons engaged in the construction, maintenance, operation, and use of electrical facilities. The regulations are also intended to ensure the general reliability of the state's utility infrastructure and services.

Rule 35 of G.O. 95 establishes minimum clearances between line conductors and nearby vegetation for fire prevention purposes. These minimum clearances must be maintained through tree trimming prior to construction and throughout operation and maintenance of utility facilities.

California Department of Forestry and Fire Protection Unit Strategic Fire Plans

CAL FIRE develops individual CAL FIRE Unit Strategic Fire Plans for each of CAL FIRE's 21 units and six contract counties. The plans include stakeholder contributions and priorities, and identify strategic areas for pre-fire planning and fuel treatment. CAL FIRE has developed Strategic Fire Plans for both the Riverside Unit and the San Bernardino Unit. The 2014 Riverside Unit Strategic Fire Plan focuses on the risk of wildland fire in the mountainous areas of Riverside County, although evacuation routes and community defense projects throughout the county are also addressed. The overall goal of the 2014 Riverside Unit Strategic Fire Plan is to reduce total government costs and citizen losses from wildland fires in the Riverside Unit by protecting assets at risk through pre-fire management prescriptions and increasing initial attack success. The overall goal of the 2014 San Bernardino Unit Strategic Fire Plan is to identify and evaluate wildland fire hazards and recognize life, property, and natural resources at risk, including watershed, habitat, social, and other values of functioning ecosystems.

4.8.2.3 Local

The CPUC has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC G.O. 131-D, Section XIV.B, "Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the CPUC's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the counties and cities' regulations are not applicable as the counties and cities do not have jurisdiction over the Proposed Project. Accordingly, the following discussion of local land use regulations is provided for informational purposes only.

Riverside County Airport Land Use Commission Land Use Compatibility Plans

As discussed in Section 4.16 Transportation and Traffic, the Riverside County Airport Land Use Commission develops land use compatibility plans for airports within Riverside County. Portions of the Proposed Project are located within the boundaries of the Airport Land Use Compatibility Plans for both the Chino Airport and the Corona Municipal Airport. Airport safety land use zones crossed by the Proposed Project for both Chino Airport and Corona Municipal Airport are depicted in Figure 4.8-3: Airport Safety Zones Map and are listed in Table 4.8-3: Airport Safety Zones Crossed by the Proposed Project. The Proposed Project is not located within airport safety land use zones for any other airports.

4.8.3 Significance Criteria

The significance criteria for assessing the impacts to hazards and hazardous materials come from the California Environmental Quality Act (CEQA) Environmental Checklist. According to the CEQA Environmental Checklist, a project causes a potentially significant impact if it would:

- Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials
- Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment
- Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school
- Be located on a site that is included on a list of hazardous material sites, compiled pursuant to Government Code Section 65962.5 and. as a result, would create a significant hazard to the public or the environment
- For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, the project would result in a safety hazard for people residing or working in the project area

Table 4.8-3: Airport Safety Zones Crossed by the Proposed Project

Airport	Proposed Project Component	Approximate Distance Crossed by the Proposed Project (miles)	Airport Land Use Zone	Zone Description	Maximum Height of Proposed Project Components (feet)
Chino Airport	Mira-Loma Jefferson 66 kV Subtransmission Line (overhead)	0.2	C – Extended Approach/ Departure Zone	Moderate noise impact; moderate risk level; height limits as low as 50 feet	85
		3.3	D – Primary Traffic Patterns	Moderate noise impact; low risk level; height limits generally at least 100 feet	105
		1.0	E – Other Airport Environs	Low noise impact; low risk level	105
Corona Municipal Airport	Source Line Route (overhead)	0.1	D – Primary Traffic Patterns	Moderate noise impact; low risk level; height limits generally at least 100 feet	85
	Mira-Loma Jefferson 66 kV Subtransmission Line (overhead)	0.7	D – Primary Traffic Patterns	Moderate noise impact; low risk level; height limits generally at least 100 feet	85
		0.9	E – Other Airport Environs	Low noise impact; low risk level	85
	Mira-Loma Jefferson 66 kV Subtransmission Line (underground)	0.6	D – Primary Traffic Patterns	Moderate noise impact; low risk level; height limits generally at least 100 feet	85

Source: Riverside County Airport Land Use Commission, 1993 and 2004

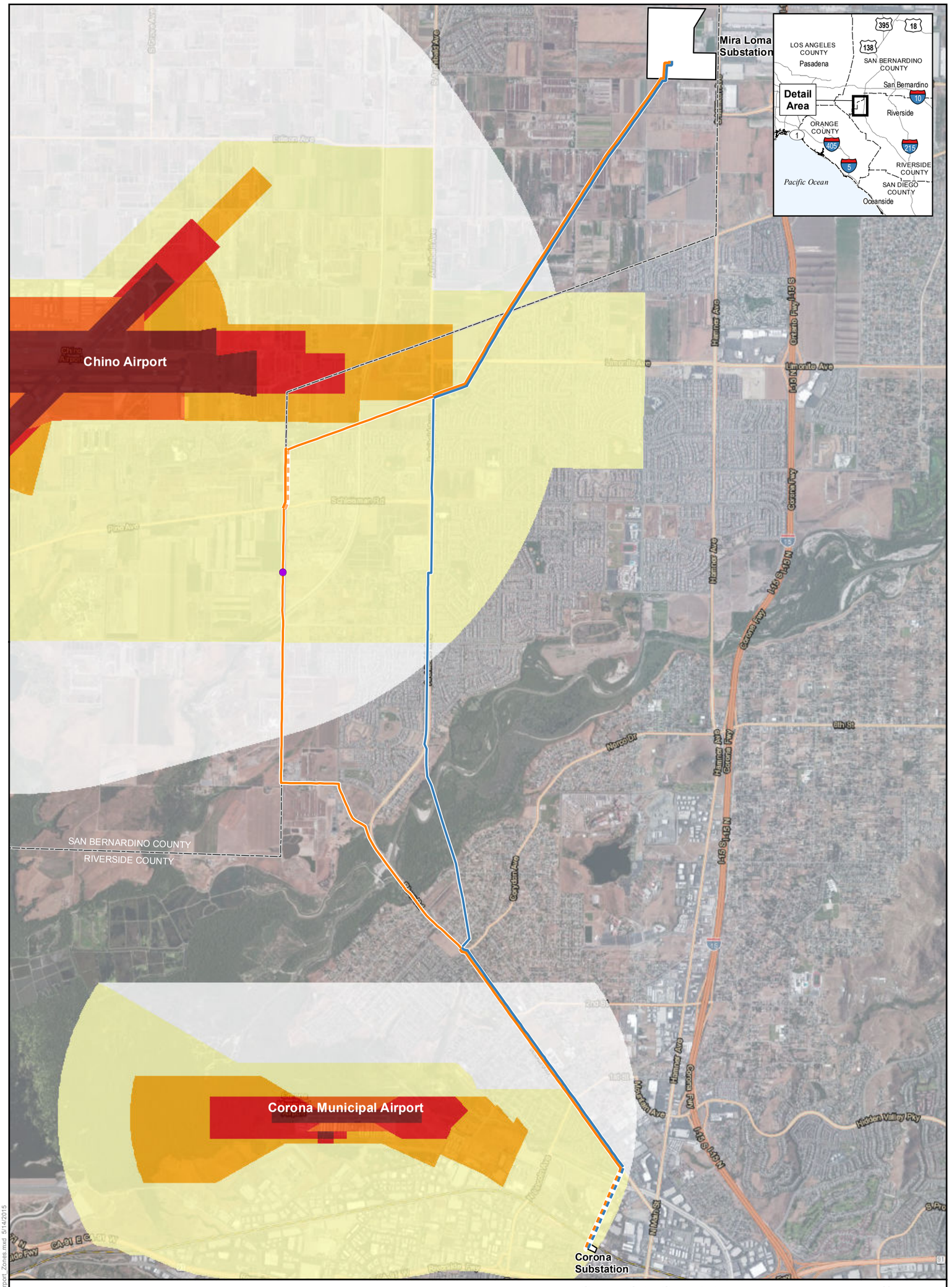

Figure 4.8-3: Airport Safety Zones Map

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

Mira Loma-Jefferson 66 kV Subtransmission Line

- Subtransmission Line Route Alternative 1 - Overhead (Proposed)
- Subtransmission Line Route Alternative 1 - Underground (Proposed)
- Subtransmission Line Route Alternative 2 - Underground*
- Subtransmission Line Route Alternative 3 - Overhead
- Subtransmission Line Route Alternative 3 - Underground
- Subtransmission Line - Underground Crossing

Airport Compatibility Zone

- Zone A
- Zone B1
- Zone B2
- Zone C
- Zone D
- Zone E

- Substation
- County Boundary

*Note: Except for the underground portion indicated, Alternative Route 2 would utilize the same route and construction techniques as the Proposed Route.

Sources: Insignia, 2015; Riverside County, 2012; SCE, 2015

SOUTHERN CALIFORNIA EDISON® An EDISON INTERNATIONAL® Company

INSIGNIA ENVIRONMENTAL

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- For a project within the vicinity of a private airstrip, the project would result in a safety hazard for people residing or working in the project area

- Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan

- Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands.

4.8.4 Impact Analysis

4.8.4.1 Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Construction – Less-than-Significant Impact

Construction of the Proposed Project would require the use of fuel and lubricants inside vehicles and equipment. A general list of the products anticipated to be used during construction is provided in Table 4.8-4: Hazardous Materials Typically Used for Construction.

Table 4.8-4: Hazardous Materials Typically Used for Construction

Hazardous Materials	
2-Cycle Oil	Lubricating Grease
ABC Dry Chemical Fire Extinguisher	Mastic Coating
Acetylene Gas	Methyl Alcohol
Air Tool Oil	Oxygen
Antifreeze	Paint
Automatic Transmission Fluid	Paint Thinner
Battery Acid	Petroleum Products
Canned Spray Paint	Puncture Seal Tire Inflator
Connector Grease	Safety Fuses
Contact Cleaner 2000	Safety Solvent
Diesel Fuel and Gasoline	Starter Fluid
Gas Treatment	Wagner Brake Fluid
Jet A Fuel	WD-40
Insulating Oil	

The routine transport, use, and disposal of hazardous materials (e.g., fuels, lubricating oil, and hydraulic fluid) during construction could result in inadvertent releases of these materials. Any release of hazardous materials would most likely result from accidental spills or other unauthorized releases during vegetation clearing, grading, pole removal and installation, and

other Proposed Project construction activities. An inadvertent release could also occur from the use of hazardous materials during construction within temporary storage sites, while transporting hazardous materials to and from work areas, or during refueling and servicing of equipment. However, a Proposed Project-specific Hazardous Materials Management Plan (HMMP), as specified in APM-HAZ-01, would be prepared and implemented throughout construction of the Proposed Project. The plan would include safety information regarding the transport, use, and disposal of hazardous materials. In addition, all transport, use, and disposal of hazardous materials would be in compliance with applicable laws, rules, and regulations.

Construction of the Proposed Project would result in the generation of various waste materials that would require recycling and/or disposal. Waste items and materials would be collected by construction crews and stored in roll-off boxes or other similar containers at the staging areas. All waste materials that are not recycled would be characterized by SCE in order to ensure appropriate final disposal. Non-hazardous waste would be transported to SCE-approved licensed local waste management facilities, as described in Section 4.17 Utilities and Service Systems. Hazardous waste would be disposed of at SCE-approved local facilities that accept hazardous waste, in accordance with all applicable laws and regulations. The nearest landfill to the Proposed Project alignment is El Sobrante Landfill, which accepts construction and demolition waste and is classified as a Class III landfill.[2]

Prior to the removal of existing poles, existing subtransmission and distribution lines would be transferred to the new poles. All remaining subtransmission and distribution lines that are not reused by SCE would be removed and delivered to a suitable facility for recycling. As the existing wood poles have been treated with chemicals, they would be classified as hazardous waste and disposed of in a landfill facility that is authorized to accept hazardous wastes, such as a Class I and/or an RWQCB-approved Class III landfill or similar facility.

In the event that unanticipated contaminated soil is encountered in other areas of the Proposed Project during excavation activities, work would stop at that location and SCE's Spill Response Coordinator would be called to the site to assess site conditions and notify the proper authorities. Work would continue at that location only when the Spill Response Coordinator gives clearance. The potentially contaminated soil would be separated into lined stockpiles or placed in dump trucks or roll-off containers, then it would be sampled and analyzed to determine the appropriate handling, treatment, and disposal options. If the soil is classified as hazardous, it would be properly managed on location and transported in accordance with U.S. Department of Transportation regulations using a Uniform Hazardous Waste Manifest to an SCE-approved Class I Landfill or other appropriate soil treatment or recycling facility. All hazardous materials would be transported, used, and disposed of in accordance with applicable rules, regulations, and SCE protocols designed to protect the environment, workers, and the public. Therefore, impacts from uncovering unknown contaminated soil would be less than significant.

Operation – Less-than-Significant Impact

Use of hazardous materials during operation and maintenance of the Proposed Project could pose potential health and safety hazards to workers, residents, and the environment adjacent to the

[2] Class III landfills accept municipal non-hazardous solid waste, such as common household trash or garbage.

proposed Circle City Substation, Source Line Route, Mira Loma-Jefferson 66 kV Subtransmission Line, or telecommunication facilities. These potential hazardous material impacts are associated with possible spills during routine or emergency maintenance or normal operation at the proposed Circle City Substation and along the subtransmission or telecommunication line corridors.

Most of the chemicals used for operation and maintenance activities are similar to those used in construction and have been provided in Table 4.8-4: Hazardous Materials Typically Used for Construction. However, the use of these chemicals would be temporary and contained within vehicles and equipment. Furthermore, hazardous chemicals used would be brought to and removed from the site by maintenance personnel, rather than stored on site for extended periods. In addition, the proposed Circle City Substation site has been previously disturbed and is located within an industrial area. Therefore, the Proposed Project would not create a significant hazard to the public or the environment, and impacts would be less than significant.

As part of the ultimate configuration, two 66/12 kV transformers containing a total of approximately 6,650 gallons of insulating mineral oil would be required as part of the proposed Circle City Substation. The potential exists for a transformer to leak due to age, major natural events, or collisions from operation and maintenance equipment. Mineral oil is considered a hazardous material under California regulations. In addition, mineral oil storage or use in aboveground storage containers in levels exceeding 1,320 gallons in one or multiple containers at a site is regulated under the CWA. Because the anticipated volume of oil stored aboveground at the site would exceed 1,320 gallons, an SPCC Plan would be required, in accordance with Title 40, Sections 112.1 through 112.7 of the CFR. Typical SPCC secondary containment features include curbs and berms designed and installed to contain spills, should they occur. These features would be part of SCE's final engineering design for the Proposed Project to comply with federal regulations. In addition, the SPCC Plan would contain the procedures for storage, handling, spill response, and disposal of hazardous materials, including fueling, maintenance, spill containment, leak inspection, and cleanup procedures. The SPCC Plan would identify the spill response materials that must be maintained in vehicles and substation sites. With installation of secondary containment features and the preparation and implementation of an SPCC Plan, this potential impact would be less than significant.

4.8.4.2 Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Construction – Less-than-Significant Impact

As previously discussed, construction of the Proposed Project would require the limited use of hazardous materials, such as fuels, lubricants, and cleaning solvents. Due to the low volume and low toxicity of the hazardous materials to be used during the construction of the Proposed Project, the potential for environmental impacts from hazardous material incidents would be less than significant. All hazardous materials would be stored, handled, and used in accordance with applicable regulations, and material safety data sheets would be made available at the construction site for all crew members.

If minor spills or drips occur during construction activities, any fluid or impacted soil would be cleaned up immediately, in accordance with the Proposed Project's Storm Water Pollution Prevention Plan (SWPPP). The SWPPP would provide the locations for storage of hazardous materials during construction, as well as protective measures, notifications, and cleanup requirements for any incidental spills or other potential releases of hazardous materials. With implementation of the SWPPP, all impacts due to accidental spills or releases would be less than significant.

SCE would also develop a Worker Environmental Awareness Plan as part of the Worker Environmental Awareness Training, which would provide site personnel with instruction regarding the SWPPP and Proposed Project-specific best management practices (BMPs), as described in Section 3.10 Worker Environmental Awareness Training in Chapter 3 – Project Description. The Worker Environmental Awareness Plan would also provide instructions to notify the foreman and regional Spill Response Coordinator in case of a hazardous material spill or leak from equipment, or upon the discovery of soil contamination.

During construction activities, subsurface utilities or structures could be encountered, which could result in a release of hazardous substances if the structures are damaged. However, subsurface utilities and structures would be avoided by screening for subsurface structures prior to any trenching or excavation activities. Screening activities would include the use of Underground Service Alert, visual observations, and buried line locating equipment. Therefore, the Proposed Project would not create a significant hazard to the public or the environment, and impacts would be less than significant.

Operation – Less-than-Significant Impact

Hazardous material impacts could be associated with potential spills during normal operation or routine or emergency maintenance at the proposed Circle City Substation and along the subtransmission or telecommunication line corridors. However, the use of these chemicals would be limited and primarily for use within vehicles and equipment. As previously discussed, SCE would implement an SPCC Plan to prevent and address any accidental releases of hazardous materials, thereby reducing the impacts from operation and maintenance to a less-than-significant level.

4.8.4.3 Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Construction – Less-than-Significant Impact

As previously discussed, the Proposed Project is located within 0.25 mile of four schools—Auburndale Intermediate School, George Washington Elementary School, Victress Bower Elementary, and Colony High School. Three schools are located near the portion of the Proposed Project along River Road between North Lincoln Avenue and 2nd Street. The Proposed Project is located adjacent to Auburndale Intermediate School, while George Washington Elementary School and Victress Bower Elementary are located approximately 0.1 mile from the Proposed Project. Colony High School is located approximately 0.2 mile northwest of the existing Mira Loma Substation. Construction of the Proposed Project within the vicinity of the four schools

would consist of existing wood pole removal and installation of light-weight steel (LWS) poles. In addition, a proposed pull site is located approximately 90 feet to the northwest of Auburndale Intermediate School. Construction of the Mira Loma-Jefferson 66 kV Subtransmission Line could result in hazardous emissions or handling of hazardous materials, substances, or waste within 0.25 mile of the schools.

As previously discussed, construction of the Proposed Project would require the limited use of hazardous materials, such as fuels, lubricants, and cleaning solvents. Proposed Project construction would not involve the use of large quantities of hazardous materials on site, and their use would be primarily for the operation of vehicles and equipment. If hazardous materials are released or encountered during construction, they would be contained and managed through implementation of the BMPs provided in the SWPPP. Due to the temporary and short-term nature of construction and the relatively small quantity of hazardous materials to be used during construction, impacts to schools from potential hazardous substance emissions would be unlikely. Therefore, impacts would be less than significant.

Operation – Less-than-Significant Impact

Normal operation of the line would be controlled remotely through SCE control systems. SCE inspects the energized subtransmission overhead facilities at least once per year via ground and/or aerial observation. Maintenance would occur as needed and would include repairing conductors, replacing insulators, replacing poles, and access road maintenance. Like the impacts previously described for construction activities, use of hazardous materials during operation and maintenance of the Proposed Project could pose potential health and safety hazards to the four schools located within 0.25 mile of the Mira Loma-Jefferson 66 kV Subtransmission Line. These potential hazardous material impacts are associated with possible spills during routine or emergency maintenance or normal operation along the subtransmission line corridor. The chemicals used for operation and maintenance activities are similar to those used in construction and have been provided in Table 4.8-4: Hazardous Materials Typically Used for Construction. These chemicals would be infrequently used and primarily employed during the operation of vehicles and equipment. In addition, SCE currently maintains existing facilities in the Proposed Project area. As the Proposed Project would be located within or parallel to existing utility corridors, the quantity of vehicles and equipment used for operation and maintenance would not perceptibly increase from that which is currently used for existing facilities in the area. As a result, there would be no material increase in hazardous emissions as a result of the Proposed Project. Because operation of the Proposed Project would not emit large quantities of hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste, impacts to schools within 0.25 mile of the Proposed Project during operation and maintenance would be less than significant.

4.8.4.4 Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? – No Impact

The Proposed Project would not be located on a hazardous material site that is included on a list compiled pursuant to Government Code Section 65962.5 by using the DTSC EnviroStor

database; the SWRCB GeoTracker database; and federal, state, and local hazardous materials databases. There are five active hazardous material cases within 0.25 mile of the Proposed Project area. The Proposed Project is not located on a known hazardous waste site. The nearest active hazardous material site is a voluntary cleanup site located approximately 425 feet east of the area where the Mira Loma-Jefferson 66 kV Subtransmission Line enters the existing Corona Substation. The portion of the Mira Loma-Jefferson 66 kV Subtransmission Line leading up to Corona Substation would be installed within an existing duct bank within Cota Street, rise on a tubular steel pole (TSP), and tap into an existing 66 kV subtransmission line just outside of Corona Substation. As the duct bank is an existing underground structure, ground disturbance would only occur during the auguring of a hole measuring 20 to 40 feet in depth to install a concrete foundation for the TSP. As all ground-disturbing activities would occur approximately 425 feet from the hazardous material site, Proposed Project construction activities would not affect the hazardous material site. The Corona Annex and Corona Landfill – Closed hazardous material sites are more than 1,000 feet from ground-disturbing activities; therefore, due to the distance, the Proposed Project construction activities would not affect these sites. As a result, the public or environment would not be exposed to any new hazards, and no impact would occur.

The former IMCO Waste Disposal Area site is located adjacent to the north of the El Camino Avenue and East 6th Street intersection. This site was formerly operated as a Class III solid waste disposal facility and reported VOCs in soil gas and elevated levels of metals in soil. On-site contaminants were subsequently capped and land use restrictions were implemented for the site in January 2009. However, as described in Chapter 3 – Project Description, no poles are proposed to be removed, replaced, or installed adjacent to the site. Proposed pole installation will occur along East 6th Street approximately 150 feet south of the former IMCO Waste Disposal Area site. Therefore, construction of the proposed Source Line Route in the vicinity of the site would not require ground disturbance, so personnel would not be exposed to potential subsurface contaminants.

The former Corona Landfill – Closed is located on the southeast corner of the Magnolia Avenue and Downs Way intersection. The nearest Proposed Project component to the site is a segment of the proposed Source Line Route that is proposed to be installed underground along Magnolia Avenue. According to available documentation, groundwater and/or soil gas monitoring activities were initiated following the closure of the site in 1991. Although ground disturbance would occur adjacent to the northern boundary of the former landfill, duct bank installation would occur along Magnolia Avenue where subsurface materials have been previously disturbed. Based on the site closure and the containment of landfill materials, subsurface impacts are not anticipated to be encountered during construction of the Proposed Project. Therefore, the Corona Landfill – Closed and former IMCO Waste Disposal Area site would not pose a risk to human health or the environment during the construction of the Proposed Project, and no impact would occur.

As previously discussed, the Phase I ESA revealed there were no RECs in the vicinity of the proposed Circle City Substation. The former on-site UST was properly removed in 1986 and the debris originating from the former on-site structures does not contain asbestos. The debris is anticipated to be removed by the property owner prior to the initiation of construction activities. Therefore, construction of the proposed Circle City Substation would not expose Proposed Project personnel to hazardous materials. As a result, no impact would occur.

Maintenance activities would primarily occur on aboveground structures, and excavation activities would not occur often during operation and maintenance activities. If excavation activities were required during operation and maintenance of the Proposed Project, they would most likely occur in areas that were disturbed during construction or previous operation and maintenance activities. Therefore, the potential for uncovering existing hazardous material sites during operation and maintenance of the Proposed Project is unlikely, and no impact would occur.

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

Construction – No Impact

The Proposed Project alignment is located within 2 miles of two public airports—the Chino Airport, located approximately 0.7 mile northwest, and the Corona Municipal Airport, located approximately 1.1 miles southwest. In addition, the potential staging yard location at the SCE Ontario Service Center is located approximately 0.9 mile southwest of Ontario International Airport; however, the service center is not located within any of the airport safety zones defined in the Ontario International Airport Land Use Compatibility Plan. As described in Table 4.8-3: Airport Safety Zones Crossed by the Proposed Project and depicted in Figure 4.8-3: Airport Safety Zones Map, portions of the Proposed Project are located within the boundaries of the Riverside County Airport Land Use Commission's Airport Land Use Compatibility Plans for both the Chino Airport and Corona Municipal Airport. Additional discussion of airport safety zones is provided in Section 4.16 Transportation and Traffic.

As described in Section 4.16 Transportation and Traffic, Title 14, Part 77 of the CFR states that FAA notification is necessary for construction projects greater than 200 feet in height or those located within 20,000 feet of a public use airport that exceeds a 100-to-1 surface ratio from any point on an airport's longest runway measuring more than 3,200 feet. The longest runway at Chino Airport measures approximately 7,000 feet. As the nearest Proposed Project poles are located at a distance of approximately 4,600 feet from the Chino Airport and are a maximum of 105 feet tall, the Proposed Project would exceed a 100-to-1 surface ratio for the Chino Airport. The Corona Municipal Airport contains one runway, which measures approximately 3,200 feet in length. As the nearest Proposed Project poles are located a distance of approximately 5,900 feet from the Corona Municipal Airport and are a maximum of 105 feet tall, the Proposed Project would also exceed a 100-to-1 surface ratio for the Corona Municipal Airport. However, SCE would notify the FAA in accordance with Title 14, Part 77 of the CFR for construction work conducted within 20,000 feet of the Chino Airport and Corona Municipal Airport, as required. With respect to Proposed Project structures, the FAA will conduct its own analysis and may recommend no changes to the design of the proposed structures; or it may request redesigning the proposed structures near the airports to reduce their height, marking the structures (including the addition of aviation lighting), or placing marker balls on wire spans. SCE would evaluate the FAA's recommendations for reasonableness and feasibility, and in accordance with Title 14, Part 77 of the CFR, SCE may petition the FAA for a discretionary review of its determination to address any issues. FAA determinations for permanent structures are typically valid for 18

months, and therefore, such notifications would be filed upon completion of final engineering and before construction.

As described in Section 4.16 Transportation and Traffic, no helicopter use is anticipated to be necessary during construction. While construction of the Proposed Project may temporarily obstruct navigable airspace for the Chino Airport due to the replacement of approximately four LWS poles, impacts would be temporary and short-term. Therefore, there would be no significant change to existing air traffic patterns following construction of the Proposed Project. In addition, SCE would coordinate with the necessary agencies prior to construction through the FAA notification process. Therefore, impacts to air traffic patterns would be less than significant.

As construction activities within each of the airport safety zones would be temporary and short-term (i.e., lasting 1 to 2 days per pole), construction of the Proposed Project would not result in a safety hazard for construction crews working within the airport safety zones. In addition, as discussed in Section 4.13 Population and Housing, construction of the Proposed Project would not induce long-term population growth nor result in a permanent increase in the area's population, and no housing or businesses would be constructed as a result of the Proposed Project. As a result, the Proposed Project would not result in a permanent addition of people residing or working within airport safety zones. Therefore, no safety hazards for people residing or working in the area would be created, and no impact would occur.

Operation – No Impact

Helicopters are periodically used to inspect existing SCE utility facilities and would continue to be used during operation and maintenance to perform aerial inspections of the Proposed Project. Helicopter flight paths would continue to follow existing flight paths, which are generally limited to the existing subtransmission line rights-of-way. In addition, helicopter use would be infrequent and in accordance with applicable federal, state, and local aviation rules and regulations. Because the newly installed poles would be similar in height to existing structures, the Proposed Project would not result in any change to current flight patterns, and no additional safety hazards would occur for people residing or working in the Proposed Project area. As a result, no impact would occur.

4.8.4.6 For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? – No Impact

The Proposed Project is not located within the vicinity of a private airstrip. As previously discussed, the nearest private-use airport is Lake Mathews Airport, located approximately 6.3 miles southeast of the Proposed Project. Because the newly installed LWS poles, TSPs, and Circle City Substation would be similar in height to existing poles and structures in the Proposed Project area, and because the Proposed Project is not located in the vicinity of a private airstrip, new Proposed Project components would not create an air traffic hazard. Therefore, no impact would occur due to construction and/or operation of the Proposed Project.

4.8.4.7 Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Construction – Less-than-Significant Impact

The Proposed Project would not necessitate any permanent modifications to existing public roadways. However, Proposed Project construction could interfere with the emergency routes of fire protection, police, or other emergency service providers in the immediate area due to temporary lane closures that might be required during the removal of the existing conductors, installation of guard structures, stringing of the new conductors, underground trenching activities, or where poles are installed adjacent to road shoulders. In the event of an evacuation, Proposed Project construction would cease and the roads would be opened to allow passage. Furthermore, freeways would remain open at all times throughout construction. Construction of the Proposed Project would not significantly impact potential emergency routes and would be short in duration, as described in Section 4.14 Public Services. The location of the poles and Proposed Project access roads would not substantially change from their existing locations as a result of the Proposed Project, and all necessary lane and/or road closures would be coordinated with local jurisdictions through the encroachment permit process. In addition, flaggers may briefly hold back traffic for construction equipment, but emergency vehicles would be provided access even in the event of temporary road closures. Therefore, impacts to emergency evacuation or response plans would be less than significant.

Operation – No Impact

Operation of the Proposed Project would not affect emergency plans or evacuation plans. All Proposed Project facilities would be unstaffed and remotely operated, with the exception of periodic maintenance and inspection activities, which would occur approximately once per year or on an as-needed basis. Operation of the Proposed Project would not affect traffic congestion levels or result in road or lane closures that would affect emergency response or evacuation plans. Therefore, no impact would occur.

4.8.4.8 Would the project expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Construction – Less-than-Significant Impact

The majority of the Proposed Project—approximately 10.5 miles—lies within areas designated as having a very high or extreme fire threat to people. Approximately 0.1 mile of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route is located in areas designated as having a high threat to people. In addition, approximately 5.1 miles of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route is located within areas designated as having a moderate fire threat to people, as depicted in Figure 4.8-1: Wildland Fire Threat Map (Source Line Route) and Figure 4.8-2: Wildland Fire Threat Map (Subtransmission Line), and listed in Table 4.8-2: Wildland Fire Threat Classes Crossed.

High heat or sparks from vehicles or equipment have the potential to ignite dry vegetation and cause fires. However, Proposed Project activities are generally confined to areas that have been cleared of vegetation, including access roads and work areas. Vehicles and equipment would

primarily use existing roads—the majority of which are paved public roads—to access the transmission structure sites, all of which would be cleared of brush to reduce fire potential. In addition, as described in APM-HAZ-02, SCE would develop a fire management plan outlining fire-prevention practices during vegetation clearing, grading, and construction activities. Trained fire-suppression personnel and fire-suppression equipment would be established at key locations along the Proposed Project. Portable communication devices (e.g., radios or mobile telephones) would also be available to construction personnel. Furthermore, SCE has standard protocols that are implemented when the National Weather Service issues a Red Flag Warning. These protocols include measures to address storage and parking areas, use of gasoline-powered tools, use of spark arresters on construction equipment, road closures, use of a fire guard, fire suppression tools, and training requirements. Lastly, SCE participates with CAL FIRE, the California Governor's OES, the U.S. Forest Service (USFS), and various city and county fire agencies in the Red Flag Fire Prevention Program, and complies with California PRC Sections 4292 and 4293 related to vegetation management in transmission line corridors.

The portions of the Proposed Project located within moderate or high fire hazard areas would generally be cleared of vegetation and graded prior to the staging of equipment, minimizing the potential for a construction vehicle to start a fire. As previously discussed, SCE construction crews would employ fire-prevention practices (e.g., refraining from smoking and carrying appropriate firefighting equipment) during vegetation clearing, grading, and construction activities, as specified in APM-HAZ-02. As a result, construction of the Proposed Project would have a less-than-significant impact to the risk of loss, injury, or death involving wildland fires.

Operation – Less-than-Significant Impact

The Proposed Project may pose a fire hazard if vegetation or other obstructions come into contact with energized electrical equipment. However, the majority of the Proposed Project would be located within existing utility corridors and along roadways, and would not be located within areas designated as having a moderate or high fire threat to people. In addition, operation and maintenance work for the Proposed Project includes regular vegetation clearing to minimize the potential for fire. Vehicles would use existing roads and temporary roads installed during construction to access the Proposed Project area for operation activities, which would reduce the potential for vehicle heat to ignite dry vegetation and start fires. Consistent with CPUC G.O. 95 and other applicable federal and state laws, SCE would maintain an area of cleared brush around the equipment, minimizing the potential for fire. As previously stated, SCE participates with CAL FIRE, the California Governor's OES, the USFS, and various city and county fire agencies in the Red Flag Fire Prevention Program and complies with California PRC Sections 4292 and 4293 related to vegetation management in transmission line corridors. As a result, operation of the Proposed Project would have a less-than-significant impact to the risk of loss, injury, or death involving wildland fires.

4.8.5 Applicant-Proposed Measures

SCE has designed and incorporated the following APMs into the Proposed Project to avoid or minimize potential impacts associated with hazards and hazardous materials:

- **APM-HAZ-01: Implement a Hazardous Materials Management Plan.** SCE would prepare and implement an HMMP during construction of the Proposed Project. The plan

would outline hazardous material handling, use, storage, and disposal requirements, as well as hazardous waste management procedures. The plan would be developed to ensure that all hazardous materials and wastes would be handled and disposed of according to applicable rules and regulations. The HMMP would include programs to address hazardous material storage, employee training requirements, hazard recognition, fire safety, first aid/emergency medical procedures, hazardous material release containment/control procedures, hazard communication training, personal protective equipment training, and release reporting requirements.

- **APM-HAZ-02**: **Fire Management Plan.** SCE would prepare and implement a Fire Management Plan during construction of the Proposed Project. The plan would provide guidance for prevention, control, and extinguishment of fires. The plan would also provide smoking and fire-related rules, storage and parking areas, usage of spark arrestors on construction equipment, and fire-suppression tools and equipment. The plan would also include the following measure:

  - Cease work during Red Flag Warning events in areas where grassland or other vegetation would be susceptible to accidental ignition by Proposed Project activities that could ignite a fire (e.g., welding or use of equipment that could create a spark). During Red Flag Warning events, which are issued by the National Weather Service, all non-emergency construction and maintenance activities would cease in affected areas.

4.8.6 Alternative Substation Site

As with the proposed Circle City Substation site (i.e., Substation Site Alternative A), Substation Site Alternative B would be located in an area with an extreme fire threat to people. Substation Site Alternative B would also not be located on any active hazardous sites or within any airport land use zones. As a result, the impacts associated with hazards and hazardous materials would be similar to those for the proposed Circle City Substation site and would be less than significant.

4.8.7 Alternative Source Line Routes

Similar to the proposed Source Line Route, portions of the alternative source line routes would also be located in areas designated as having a very high and extreme fire threat to people. The alternative source line routes would not be located on any active hazardous sites. The active hazardous sites within 0.25 mile of the alternative source line routes would be located at approximately the same distance as the proposed Source Line Route. Similarly, a small portion of the alternative source line routes would also be located in Airport Land Use Zone D for the Corona Municipal Airport. Therefore, the impacts associated with hazards and hazardous materials would be similar to those identified for the proposed source line routes, and would be less than significant.

4.8.8 Alternative Mira Loma-Jefferson 66 kV Subtransmission Line Routes

Like the proposed Mira Loma-Jefferson 66 kV Subtransmission Line, Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternative 2 and Alternative 3 would also be located within

areas designated as having a very high and extreme fire threat to people, with additional portions of the routes located within the little to no threat and moderate threat to people classes. Neither Alternative 2 nor Alternative 3 would be located on any active hazardous sites. The active hazardous sites located within 0.25 mile of Alternative 2 and Alternative 3 would be the same as those located within 0.25 mile of the Mira Loma-Jefferson 66 kV Subtransmission Line.

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ATTACHMENT 4.8-A: PHASE I ENVIRONMENTAL SITE ASSESSMENT AND ADDENDUM LETTER

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Circle City Substation Project

APNs 107-060-008 and 107-060-009
Corona, Riverside County, California 92879

Project No. 2015.01.003

Prepared By:
CEHS Environmental Engineering
Southern California Edison

February 6, 2015

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Circle City Substation Project
APNs 107-060-008 and 107-060-009
Corona, Riverside County, California 92879

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February 6, 2015

SOUTHERN CALIFORNIA EDISON®
An EDISON INTERNATIONAL® Company

February 6, 2015

Mr. Brent Scharnberg
T&D Real Properties

Subject: Phase I Environmental Site Assessment
Circle City Substation Project
Corona, Riverside County, California 92879

CEHS Environmental Engineering has prepared this Phase I Environmental Site Assessment (Phase I ESA) for the two adjacent properties located in Corona, Riverside County, California. The assessment was conducted in accordance with the requirements of ASTM International Standard Practice E1527-13 as well as the Environmental Protection Agency's (EPA) All Appropriate Inquires (AAI). The purpose of this assessment was to determine if the properties exhibited any *Recognized Environmental Conditions* (RECs), *Historical RECs* (HRECs), or *Controlled RECs* (CRECs) that should be considered involving the purchase and subsequent use of the properties for Southern California Edison's (SCE's) proposed Circle City Substation.

The attached report details the activities and the results of this Phase I ESA. The Executive Summary at the beginning of the report presents the results of the assessment in a concise manner.

Should you have any questions or comments regarding this report, please contact the undersigned.

Mark Passarini, PE
Manager, Environmental Engineering
Corporate Environmental, Health and Safety

Violet Flores
Environmental Engineer
Corporate Environmental, Health and Safety

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LIST OF ACRONYMS

AAI	All Appropriate Inquires
APN	Assessor's Parcel Number
ASTM	ASTM International
AUL	Activity Use Limitation
bgs	Below ground surface
BFE	Base Flood Elevations
CAC	California Administrative Code
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEHS	Corporate Environmental Health and Safety
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Contamination, Liability, Information System
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition
DOGGR	Division of Oil, Gas, and Geothermal Resources (California)
DTSC	Department of Toxic Substances Control (California)
EPA	Environmental Protection Agency (Federal)
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map (Federal FEMA)
HWMI	Hazardous Waste Manifest Inventory
HREC	Historical Recognized Environmental Condition
IC	Institutional Controls
LLP	Landowner Liability Protection
LUST	Leaking Underground Storage Tank
MSL	Mean sea level
NFRAP	No Further Remediation Action Plan
NPL	National Priority List
PBT	Persistent, Bioaccumulative and Toxic
PP	Petroleum Products
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
R/W	Right-of-Way
SCE	Southern California Edison
SWRCB	State Water Resources Control Board
T&D	Transmission & Distribution
TRTP	Tehachapi Renewable Transmission Project
USGS	United States Geological Survey

1.0 EXECUTIVE SUMMARY

Southern California Edison (SCE) is in negotiations to purchase two land parcels with Assessor Parcel Numbers (APNs) 107-060-008 (also refer to as northern parcel) and 107-060-009 (southern parcel), in the City of Corona, within Riverside County, California (Site). The Site is planned to be used for SCE's Circle City Substation project. The Environmental Engineering Section of SCE's Corporate Environmental, Health and Safety Department (CEHS Environmental Engineering) has performed this Phase I Environmental Site Assessment (ESA) for the SCE Transmission & Distribution Real Properties Department (T&D Real Properties) to assist identifying possible *recognized environmental conditions* (RECs), *historical RECs* (HRECs), or *controlled RECs* (CRECs) for the subject properties.

The scope of work for this Phase I ESA conforms to the requirements outlined in ASTM International E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and 40 Code of Federal Regulations (CFR) Part 312 for All Appropriate Inquiries (AAI). The scope of work included:

- Interview with knowledgeable T&D Real Properties personnel and Site owner
- Site reconnaissance
- Review historical property records, aerial photographs, and topographic maps
- Review property ownership records and regulatory agency records via Environmental Data Resources (EDR) services
- Preparation of this report

The Site is owned by PPII, LLC, a California limited liability company. The Site is currently unoccupied vacant land with artificial fill material that is mounded on the southern parcel. Much of the northern parcel is occupied by the foundations of an industrial building and adjoining support structure that were recently demolished. The eastern portion of the Site is covered with low-growing vegetation. The Site is currently fenced with only limited access via a locked gate. Database records, aerial photos, topographic maps, and interviews revealed that the Site has been occupied since at least 1966.

The results of this investigation indicate that there are no HRECS or CRECS that would affect the use or value of the subject properties. However, several potential RECs were identified during the site inspection. A considerable amount of debris associated with the building demolition and from past operations of the Site was observed at the time of visit on January 23, 2015. The expectation is that the current owner will remove it as part of the vacation process.

A historical underground storage tank (UST) was identified on the Site. However, the tank location and whether or not it has been removed is unknown. Review of other historical records did not reveal additional information about the tank. Due to the uncertainty of its location and lack of historical data, the UST is considered a REC. CEHS Environmental Engineering recommends a geophysical survey to determine if any subsurface structures

associated with the historical UST exist onsite. If the tank is located, confirmation soil sampling should be conducted to determine if the UST contributed to any environmental condition at the site. Although specifically excluded from this assessment, CEHS Environmental Engineering also recommends performance of an asbestos and lead-based paint survey of materials found in and around the area of the building and support structure foundations to determine the presence or absence of these materials and subsequent removal if determined to be present.

2.0 INTRODUCTION

2.1 PURPOSE

The purpose of this Phase I ESA is to identify existing or potential RECs, HRECs, or CRECs[1]. This Phase I ESA report will be used as part of preparations by the T&D Real Properties to purchase the Site for the subsequent use of the properties for SCE's proposed Circle City Substation.

2.2 DETAILED SCOPE-OF-WORK

The scope of work for this Phase I ESA conforms to those outlined in ASTM International Standard E1527-13 and 40 CFR Part 312 for AII Appropriate Inquiries. The scope of work included:

- Interview with knowledgeable T&D Real Properties personnel and Site owner
- Site reconnaissance
- Review historical property records, aerial photographs, and topographic maps
- Review property ownership records and regulatory agency records via Environmental Data Resources (EDR) services
- Preparation of this report

2.3 SIGNIFICANT ASSUMPTIONS

No significant assumptions were made in the performance of this project.

[1] RECs are defined in ASTM 1527-13 as "*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any 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 RECs."* HRECs are defined, according to ASTM E1527-13 as "*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.*" CRECs are defined, according to ASTM E1527-13 as "*a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.*" (ASTM E1527-13, 2013).

2.4 LIMITATIONS AND EXCEPTIONS

There were no exceptions to, or deletions from, the in ASTM International Standard E1527-13 during the preparation of this Phase I ESA. This Phase I ESA excludes any evaluation of, or with respect to radon, methane, asbestos containing materials, lead-based paint, lead in drinking water, wetlands, geotechnical conditions or seismicity. Any comments about these conditions in this report are based general observations or on work by others. Also, this report does not include evaluation of the potential impact of possible future activities on subsurface conditions or of undocumented activities on adjacent or nearby properties.

2.5 SPECIAL TERMS AND CONDITIONS

This Phase I ESA was performed by CEHS Environmental Engineering for use by the T&D Real Properties Department.

2.6 USER RELIANCE

This report has been prepared by CEHS Environmental Engineering for the sole benefit and use of the T&D Real Properties. It may not be distributed without SCE's permission. Its preparation has been in accordance with generally accepted environmental engineering practices. The conclusions and recommendations in this report are based on available data and information. There is no guarantee on the completeness and accuracy of information provided or complied by others. No other warranty, either expressed or implied, is made. This report should not be regarded as a guarantee that no further contamination beyond that which could be detected within the scope of this assessment is present at the site. It is not possible to absolutely confirm that no hazardous materials/substances exist at the site. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation.

3.0 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The Site is located south of Leeson Lane in the City of Corona, within Riverside County, California. The approximate center of the Site has coordinates of latitude 33.870839 degrees north and longitude 117.529672 degrees west. The Site location in relationship to area features is shown on Figure 1, Vicinity Map (excerpted from USGS Corona South Quadrangle, 2012).

The County of Riverside Assessor's Office designates the Site as APN 107-060-008 and APN 107-060-009. According to LandVision[2] and the Property Tax Map in Appendix E, the address associated with the former building was addressed 1620 Magnolia Avenue, Corona, California. The legal description for the Site is included in Appendix B and is as follows:

> "Lots 2 and 7 in Block 62 of the lands of the Riverside Land and Irrigating Company, as per map recorded in Book 1, Page 70 of Maps, in the office of the County Recorder of San Bernardino County, California.
>
> Together with that portion of the Southeasterly 26 feet of Magnolia Avenue adjoining Lot 2 as vacated by an order of Supervisors of the County of Riverside, recorded November 30, 1927, in Book 739, Page 462, of Deeds, Riverside County Records.
>
> Said property is also shown on portion of Parcel 1 of Record of Survey filed in Book 40, Page 59 of Records of Survey, in the Office of the County Recorder of Riverside County, California.
>
> Said property is also shown as Parcel 1 of Parcel Map recorded in Book 12, Page 67 of Parcel Maps, in the Office of the County Recorder of Riverside County, California."

3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Site is currently unoccupied vacant land with artificial fill material that is mounded on the southern parcel. The northern parcel mostly occupied an industry building and adjoining support structure that were recently demolished. The eastern and southern portion of the Site is covered with low growing vegetation. Land use in the Site vicinity consists of light industrial and residential properties. The Site and its relationship to nearby geographic features are shown on Figure 2, Aerial Photo.

[2] Since LandVision is not introduced yet in the report, should write little description of what LandVision is here.

3.3 CURRENT USE OF THE PROPERTY

The Site consists of approximately 19.82 acres. The Site is currently unused by the owner with the exception of an aggregate stock pile stored on part of the northern portion of the Site. Selected photographs of the Site are included in Appendix A.

3.4 DESCRIPTIONS OF STRUCTURES, ROADS, OTHER IMPROVEMENTS

The Site was developed with an approximately 3-acre building and adjoining support structure located on the northern parcel. Based on the site inspection, the buildings have been demolished, although foundations and underground utilities remain on the Site. The northern portion is intersected by Dudley Way, a semi-improved paved road. The ground surface consists of vegetated areas, exposed soil surfaces from the building demolition, and asphalt concrete driveways associated with the former buildings on the Site.

3.5 CURRENT USES OF THE ADJOINING PROPERTIES

The Site is bounded to the north by Leeson Lane, vacant land and industrial facilities. The area east of the Site consists of an industrial warehouse facility and a waste management facility. The area west of the Site consists of commercial and industrial buildings. All American Way, a paved road, is located on the south of the Site. A Riverside Water Company easement is along the southwest boundary of the Site. A water pumping station is located in this fenced easement. Land use of the adjoining properties is shown on Figure 2, Site Plan.

4.0 USER PROVIDED INFORMATION

4.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

CEHS Environmental Engineering reviewed the Environmental Lien and Activity Use Limitations (AUL) Search report prepared by EDR on January 20, 2015. According to the report, no environmental liens or activity and use limitations were found for the Site. A copy of the Environmental Lien and AUL Search report is provided in Appendix B. Additionally, Mr. Brent Scharnberg of T&D Real Properties was not aware of any environmental liens or AULs associated with the Site.

4.2 SPECIALIZED KNOWLEDGE OR EXPERIENCE OF THE USER

There is no specialized knowledge or experience that has been discovered regarding the Site.

4.3 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

There is no commonly known or reasonably ascertainable information that has been identified regarding the Site.

4.4 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

There were no records found in the Environmental Liens and AUL Search report recorded on the properties. Therefore, there are no records or known title related environmental issues at the Site that would cause a value reduction.

4.5 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The Site is owned and managed by PPII, LLC, a California limited liability company. There are no current occupants on the Site.

4.6 REASON FOR PERFORMING PHASE I ENVIRONMENTAL SITE ASSESSMENT

As stated above, the T&D Real Properties requested CEHS Environmental Engineering to perform this Phase I ESA to support the purchase negotiations for the subject properties. The subject properties are planned to be used for SCE's Circle City Substation project.

5.0 RECORDS REVIEW

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

CEHS Environmental Engineering used the services of EDR to conduct the required record search. The search was performed on January 16, 2015. Federal, state, tribal, and other records were reviewed. Records were searched in accordance with the ASTM International E1527-13 database, area, and radii requirements. The results are included in the EDR Radius Map Report with GeoCheck. The complete filtered records search, the records description, and locator maps are included in the reports in Appendix C.

The Site was identified in two databases in the EDR report:

Tree Island Industries DBA USA Wire, a former business located on the Site, was reported as a Resource Conversation and Recovery Act (RCRA) generator. The facility was identified since it generated, transported, stored, treated, and/or disposed of RCRA hazardous waste. Tree Islands Industries reportedly handled and/or stored benzene, tetrachloroethylene and trichloroethylene.

A historical underground storage tank (UST) containing unleaded gasoline was located on the Site. The facility owning the UST was a former occupant named San Valle Tile Kilns Incorporated. CEHS Environmental Engineering reviewed the South Coast Air Quality Management District's (AQMD) online Facility Information Detail (FIND) database on February 6, 2015. A review of the FIND database identified the Site as an inactive AQMD-regulated facility that operated equipment that released pollutants in the air. San Valle Tile Kilns Incorporated permitted several equipment including a storage and dispensing gasoline station. Due to the nature of the listings and unknown status and location of the UST, the UST is considered a REC and past uses of the UST could potentially affect the Site. A copy of the FIND database search have been provided in Appendix D.

The number facilities that were identified in the EDR database report within one mile of the Site are summarized in Table 1 and found in Appendix C.

Table 1. EDR Offsite Summary Table

Database	**Number of Facilities (elevation compared to Site)**
The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)	3 (lower)
RCRA Generators – Large	1 (higher)
RCRA Generators – Small	2 (equal/higher) 3 (lower)
Envirostor	3 (equal/higher) 4 (lower)
Solid Waste Facilities/Landfill Sites (SWF/LF)	1 (higher) 1(lower)
Leaking Underground Storage Tank (LUST)	2 (equal/higher) 2 (lower)

Database	Number of Facilities (elevation compared to Site)
Spills, Leaks, Investigations and Cleanup (SLIC)	2 (lower)
UST	2 (higher) 1 (lower)
Aboveground Storage Tank (AST)	2 (equal/higher)
United States (US) Brownfields	1 (higher)
Recycling Facilities in California Database (SWRCY)	1 (lower)
Waste Management Unit Database System (WMUDS/SWAT)	1 (higher)
California Facility Inventory Database UST	1 (equal/higher) 1 (lower)
Historical UST	1 (lower)
Statewide Environmental Evaluation and Planning System (SWEEPS) UST	1 (higher) 1 (lower)
US Mines	1 (equal/higher)
Historical Cortese ("Cortese" Hazardous Waste and Substance Sites List)	1 (higher) 1 (lower)

Due to the nature of the listings and distance to the Site, there is a low potential for these facilities to adversely affect the Site.

5.2 VAPOR ENCROACHMENT

No surrounding properties were identified in the site vicinity that would pose a vapor encroachment risk to the Site.

5.3 REGULATORY AGENCY CONTACTS

CEHS Environmental Engineering requested regulatory records from the agencies listed below for the APNs associated with the Site. The address of the former building of 1620 Magnolia Avenue, Corona, California was also provided to the agencies. Copies of records request letters have been provided in Appendix D.

Department of Toxic Substances Control (DTSC)

On January 28, 2015, a file review request was forwarded to the DTSC Cypress Office via facsimile. On January 29, 2015, CEHS Environmental Engineering received a response from Ms. Julie Johnson from DTSC Cypress Office stating that no records were found for the Site.

DTSC's Envirostor

CEHS Environmental Engineering reviewed the DTSC's online Envirostor database on January 23, 2015. The review of Envirostor depicted six facilities mapped within a one-mile radius of the Site. Due to the nature of the listings and distance of the facilities to the Site, there is a low potential for these facilities to adversely affect the Site. Copies of the EnviroStor database searches have been provided in Appendix D.

California Regional Water Quality Control Board

On January 28, 2015, a file review request was forwarded to Santa Ana Regional Water Quality Control Board (Santa Ana RWQCB) via email. On January 30, 2015, CEHS Environmental Engineering received an email response from Santa Ana RWQCB stating that records were not found for the Site.

State Water Quality Control Board (SWQCB) GeoTracker

CEHS Environmental Engineering reviewed the SWQCB's online Geotracker database on January 13, 2015. The review of Envirostor depicted 18 facilities mapped within a one mile radius of the Site. Due to the status of the case and distance of the facilities to the Site, there is a low potential for these facilities to adversely affect the Site. A copy of the GeoTracker database search have been provided in Appendix D.

California Division of Oil, Gas, and Geothermal Resource (DOGGR) Map

CEHS Environmental Engineering reviewed the California Division of Oil, Gas, and Geothermal Resource's online DOGGR database on February 4, 2015. A review of the DOGGR map indicates that there are no oil or gas wells within one mile of the subject Sites. Hence, there has been no oil well drilling activity that would cause a significant environmental concern for the Site. A copy of the DOGGR Map database search have been provided in Appendix D.

Riverside County Department of Environmental Health - Hazardous Materials

On February 6, 2015, CEHS Environmental Engineering contacted the Riverside County Department of Environmental Health to request records on the historical UST. Mr. Manny Vargas, supervisor of the Hazardous Material Section, stated that one UST record was identified on the northern adjacent property (1623 Magnolia Avenue), but no UST related records were found for the Site.

City of Corona

On February 6, 2015 a file review request was forwarded to the City of Corona via the online file request system. The response from the City of Corona is pending. CEHS Environmental Engineering will provide any received response altering the conclusions and recommendations of this report in an addendum letter.

5.4 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

CEHS Environmental Engineering reviewed the fire insurance maps, also known as Sanborn maps, provided by EDR. According to the report, there is no Sanborn Fire Insurance Map coverage for the Site. A copy of this report has been provided in Appendix E.

Historical City Directories were provided by EDR. Since the Site comprises of two adjacent properties, the address related to the former building (1620 Magnolia Avenue) was researched. The Site was identified in the 1977, 1981, and 1990 city directories. San Valle

Tile Kilns Incorporated (Inc.) occupied the Site in 1977 and 1981. In 1990, this address was occupied by UNIMAST Inc.

The Site is also believed to be addressed 1620 Leeson Lane. This address was identified in the 1996, 2001, 2002 and 2003 city directories. The businesses that were identified to occupy the Site include:

- Baoan International Investment
- Universal Sourcing of America
- Vinyl Corporation
- USA Industries

A copy of this report has been provided in Appendix E.

Building Permits were provided by EDR. Although the report indicated that no permits were found for the Site, permits in connection with the 1620 Leeson Lane and 1620 Magnolia Avenue were identified. The following permits were filed for the Site:

- Storage racks construction in 2009
- Structural repairs to interior columns and exterior braces in 2007
- Exterior truck well with cover in 2006
- New 3000 amp service in 2005
- Electrical in 1995 and 1993
- Machine foundation and pit construction in 1990
- Bridge crane in 1990

A copy of this report has been provided in Appendix E.

5.5 PHYSICAL SETTING

Based on the United States Geological Survey (USGS) “Corona South, California, Quadrangle (2012), the elevation at the Site is approximately 659 feet above mean sea level. Grade on the Site is generally flat and grade in the immediate site vicinity slopes gently to the northwest.

Surface runoff at the Site flows westerly to Temescal Wash and ultimately to the Santa Ana River. The Temescal Canyon, a water body that connects to the Temescal Wash, is located approximately 480 feet south of the Site. The groundwater depth at the Site is unknown. In a Phase I ESA prepared for the City of Corona and PPI, Inc. by PIC Environmental Services for a property located southeast of the Site, groundwater is estimated to be located between 40 and 60 feet below ground surface (bgs).

The soils comprising the surface of the Site includes alluvial sandy soils with varying amounts of silts and gravels. High infiltration rates are associated with sands and gravels; therefore, the soil drainage at the Site is likely well drained. The physical setting source summary is found in Appendix D.

5.6 HISTORICAL USE INFORMATION ON THE PROPERTY

Historical aerial photographs and historical USGS topographic quadrangles of the Sites and surrounding region were reviewed. Aerial photographs and historical topographic maps are included in Appendix E of this report.

Aerial photographs:

1938: The Site and adjacent properties appear to be undeveloped or used for agricultural operations. The roads, Magnolia Avenue and Leeson Lane, are shown on this photo.

1948: This photo shows no significant changes from the 1938 aerial photo, except for the northeastern residential area which increased in the photo.

1953: The Site and adjacent properties appear to be undeveloped. The northern and eastern properties appear to have less agricultural productions.

1966: The Site appears to be graded with a light footprint of a building. The adjacent properties to the north and south appear to be vacant land. The adjacent property to the east appears to be graded and the property on the west appears to have seized agricultural operations.

1975: The Site is fully developed with a building on the northern parcel and fill material mound shown on the southern parcel. The adjacent property to the east shows a large industrial building and additional surrounding properties have developed additional buildings.

1985: The Site appears to be unchanged. There appears to be additional industrial buildings on the northern and eastern adjacent property. The Temescal Canyon water body now appears in the photo.

1990: The properties and immediate vicinity appear to be unchanged. Promenade Avenue appears in this photo.

1995: The properties and immediate vicinity appear to be unchanged.

2005: The Site and adjacent properties to the north, south and east appear to be unchanged. The western adjacent properties appears to be developed with large industrial buildings.

2006-2012: The properties and immediate vicinity appear to be developed similarly to present day.

Topographic maps:

1901-1902: The properties and immediate surrounding area are shown to be sloping gently to the north-northwest. The Temescal Wash is shown to the west of the Site. Magnolia Avenue and Leeson Lane are shown on the map. No other development is shown on the Site or adjacent lands.

1947-1954: The map shows more detail to the topography including several more braided intermittent stream channels associated with the Temescal Wash. Paved and dirt roads are now shown on the map. The Santa Fe Pacific Electric railway is more defined to the north of the Site. Other than the northeastern residential area, there are no other developments shown.

1967: The map shows a large and small buildings on the Site. The immediate surroundings are essentially unchanged. The map shows less a water well located southeast of the Site. Other than roads, there are no other developments on the properties or adjacent lands.
1973: The Site appears to be unchanged. The adjacent property to the east shows a large industrial building and additional surrounding properties have developed additional buildings. A light footprint of the Temescal Canyon water body appears on this map.
1982-1988: The Site appears to be unchanged. There appears to be additional industrial buildings on the northern and eastern adjacent property. The Temescal Canyon water body and wash are more defined on this map.
1997: The properties and immediate vicinity appear to be developed similarly to present day.

5.7 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

According to the historical aerial photos and historical topographic maps, adjoining properties include undeveloped and agricultural lands.

The historical aerial photos and historical topographic maps do not include any features on the Site or on the adjoining properties that would pose an environmental concern relative to the Site.

6.0 SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

A reconnaissance of the Site was made by CEHS Environmental Engineer Violet Flores and Engineering Intern Kurt Paul on January 23, 2015. The reconnaissance was made by walking the grounds of the Site and driving the nearby areas of the surrounding properties.

6.2 GENERAL SITE SETTING

The Site consists of approximately 19.82 acres. The Site is currently unoccupied. The ground surface consisted of vegetated areas, exposed soil surfaces from building demolition, and asphalt concrete driveways associated with the former building on the Site. Figure 2 is an aerial photograph that shows the general setting of the property and to its surroundings.

6.3 EXTERIOR OBSERVATIONS

The Site is currently unoccupied vacant land with artificial fill material that is mounded on the southern parcel. The northern parcel is occupied by the foundations of an industrial building and adjoining support structure that were recently demolished. Underground utilities appear to remain on the building footprints. An aggregate stock pile is also located on the northern portion of the Site. The eastern and southern portion of the Site is covered with low growing vegetation. Selected photographs taken during the field reconnaissance are presented in Appendix A.

A summary of exterior observations is given in Table 2 below.

Table 2. Exterior Observation Summary

At the time of visit, were there…	Yes	No
Storage tanks on site?		x
Pits, ponds or lagoons on site?		x
Stressed vegetation on site?		x
Solid waste, trash, debris on site?	x	
Septic tank system or cesspool on site?		x
Stains on the ground?		x
Wells on site?		x
Drums or containers with hazardous substances or petroleum products on site?		x
Odors?		x
Equipment that likely contain PCB on site?		x
Pools of liquid or sumps with hazardous substances or petroleum products on site?		x

6.4 INTERIOR OBSERVATIONS

Since there are no structures on the subject properties, no interior observations can be made. However, during the site inspection, CEHS Environmental Engineering was informed that the exposed electrical conduit associated with the remaining building foundations was still energized, and presented a safety concern.

7.0 INTERVIEWS

On January 13, 2015, Mr. Brent Scharnberg of T&D Real Properties completed a Phase I ESA User Questionnaire. He confirmed that there are no environmental liens, past environmental regulatory actions, or other hazardous conditions related to the Sites. He has no knowledge of other environmental related conditions of the property. His responses indicate that there are no known environmental related conditions of the properties that would affect the purchase of the subject properties. This interview questionnaire is included in Appendix F.

On January 14, 2015, Mr. James Prause, Site owner, responded to our request and completed a Phase I ESA Owner Questionnaire. He has knowledge of the recent history of the Site (since taking ownership of the Site). He confirmed that there are no environmental liens, past environmental regulatory actions, or other hazardous conditions related to the site. He has no knowledge of other environmental related conditions of the property. Mr. Prause did note that there have been some grading in connection with building demolition. Mr. Prause also indicated that a Phase I ESA was available for the Site; however, on further inquiry it was determined that the report was not completed for Site but for the southern adjacent properties. A copy of the questionnaire with Mr. Prause's responses is included in Appendix F.

8.0 FINDINGS

The following summarizes the findings of this environmental assessment:

1. The database search in accordance with in the ASTM International Standard E1527-13 did not reveal any records that would represent an environmental concern relative to the Site other than:
    a. Tree Islands Industries, a former occupant, handled and/or stored benzene, tetrachloroethylene and trichloroethylene at the Site.
    b. A historical UST containing unleaded gasoline was located on the Site.
2. There are no oil or gas wells in the vicinity that would represent an environmental concern relative to the Site.
3. The historical aerial photos revealed no significant environmental concern for the property.
4. The historical topographic maps did not reveal any significant information that would have an adverse concern for the Site.
5. The interviews with T&D Real Properties personnel and Site owner indicated that there have been no known incidents that may have had significant environmental impact on the property.
6. A considerable amount of debris associated with the building demolition and from past operations of the Site was observed.
7. Exposed utilities and energized electrical conduit appear to remain on the building footprint.

8. Six industrial type companies occupied the site over the years, including UNIMAST Inc., San Valle Tile Kilns Inc., Baoan International Investment, Universal Sourcing of America, Vinyl Corporation, and USA Industries.

9.0 OPINION

CEHS Environmental Engineering is of the opinion that the results of this investigation indicate that there are no HRECS or CRECS that would affect the use or value of the subject properties. However, several potential RECs were identified during the site inspection. A considerable amount of debris associated with the building demolition and from past operations of the Site was observed at the time of visit on January 23, 2015. The expectation is that the current owner will remove it as part of the vacation process.

A historical underground storage tank (UST) was identified on the Site. However, the tank location and whether or not it has been removed is unknown. Review of other historical records did not reveal additional information about the tank. Due to the uncertainty of its location and lack of historical data, the UST is considered a REC. CEHS Environmental Engineering recommends a geophysical survey to determine if any subsurface structures associated with the historical UST exist onsite. If the tank is located, confirmation soil sampling should be conducted to determine if the UST contributed to any environmental condition at the site. Although specifically excluded from this assessment, CEHS Environmental Engineering also recommends performance of an asbestos and lead-based paint survey of materials found in and around the area of the building and support structure foundations to determine the presence or absence of these materials and subsequent removal if determined to be present.

10.0 CONCLUSIONS

This Phase I ESA has been performed in conformance with the scope and limitations of in ASTM International Standard E1527-13 for the purchase of the Site and subsequent use for SCE's Circle City Substation project. The Site includes APNs 107-060-008 and 107-060-009 in Corona, Riverside County, California and consists of a total of 19.82 acres. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. This assessment was also conducted in accordance with the EPA's AAI with the objective to identify conditions indicating releases and threatened releases of hazardous substances on, at, in, or to the property. Although there are no HRECS or CRECS that would affect the use or value of the subject properties, several potential RECs were identified during the site inspection and records search that were discussed in this report under Section 9.0 Opinion.

11.0 DEVIATIONS

There are no significant deviations from in ASTM International E1527-13.

12.0 REFERENCES

ASTM International, 2013, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM E1527-13.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Online Mapping System, Accessed February 5, 2015.

Department of Toxic Substances, Envirostor, Accessed January 23, 2015.

EDR Aerial Photo Decade Package, January 20, 2015.

EDR Certified Sanborn Map Report, January 20, 2015.

EDR City Directly Image Report, January 20, 2015.

EDR Environmental Lien and AUL Search, January 20, 2015.

EDR Historical Topographic Map Report, January 20, 2015.

EDR Radius Map Report with GeoCheck®, January 20, 2015.

Phase I ESA "Corona 19 Acres" prepared by PIC Environmental Services, September 13, 2005.

State Water Resources Control Board, Geotracker Online Database, January 13, 2015.

U.S. EPA, Code of Federal Regulations, Title 40, Part 312 "Standards and Practices for All Appropriate Inquiries: Final Rule", November 1, 2005

U.S. Geological Survey (USGS), Corona South, California Quadrangle, 2012

13.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Mark Passarini, PE
Manager, Environmental Engineering

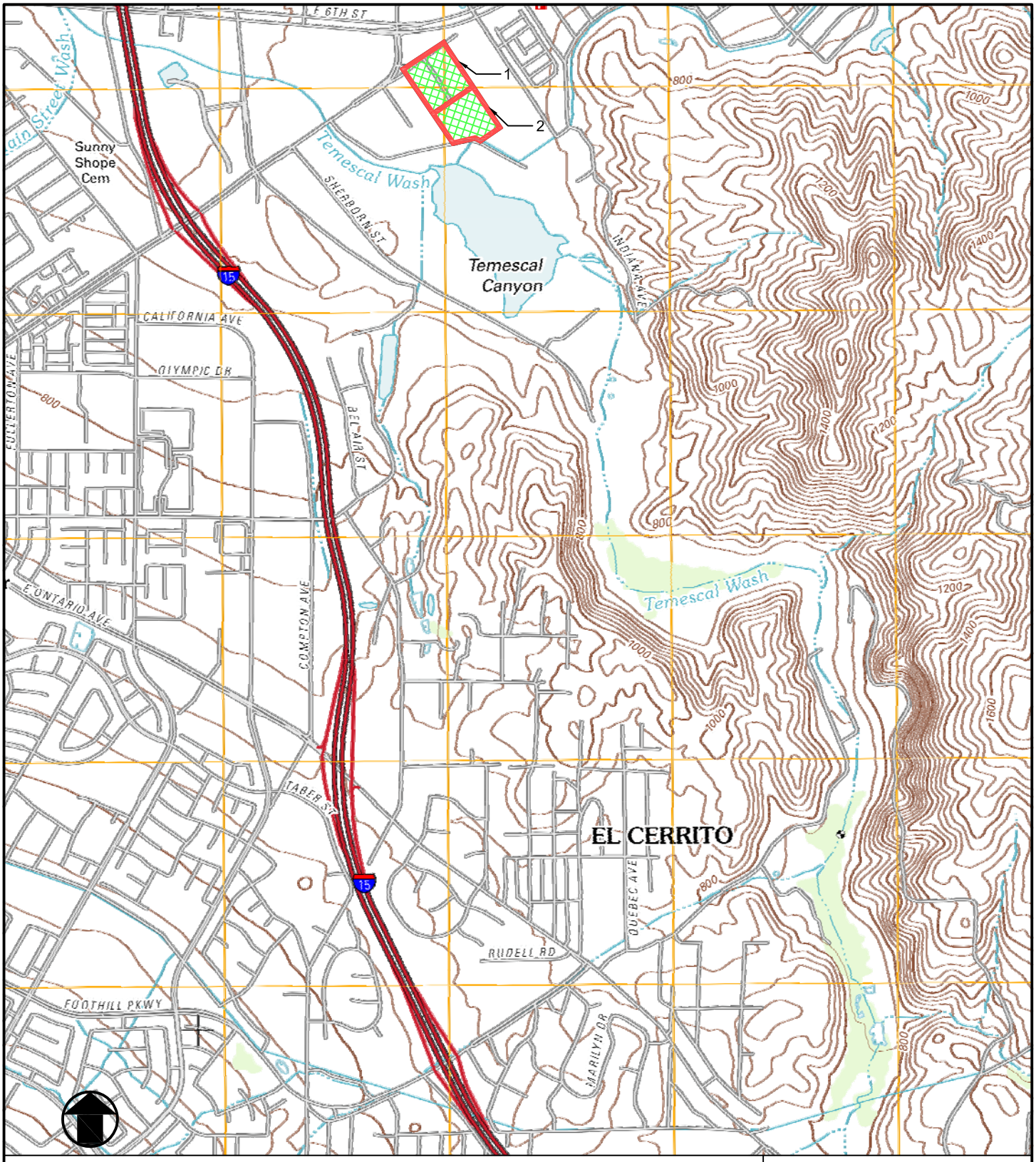
Violet Flores
Environmental Engineer

14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Mark Passarini, is Manager, Environmental Engineering, with SCE's CEHS Environmental Engineering Group and a California-Registered Civil Engineer (C34270). He has over 30 years of engineering experience, both in civil and environmental engineering, including 15 years with SCE and as an environmental consultant. He has conducted numerous Environmental Site Assessments for various clients through the years.

Violet Flores is an Environmental Engineer in CEHS Environmental Engineering. She has approximately two years of experience performing environmental site assessments and other engineering tasks.

Figures



SCALE

1 0.5 0 1

MILES

LEGEND

SITE

1 APN 107-060-008

2 APN 107-060-009

FIGURE 1 - VICINITY MAP

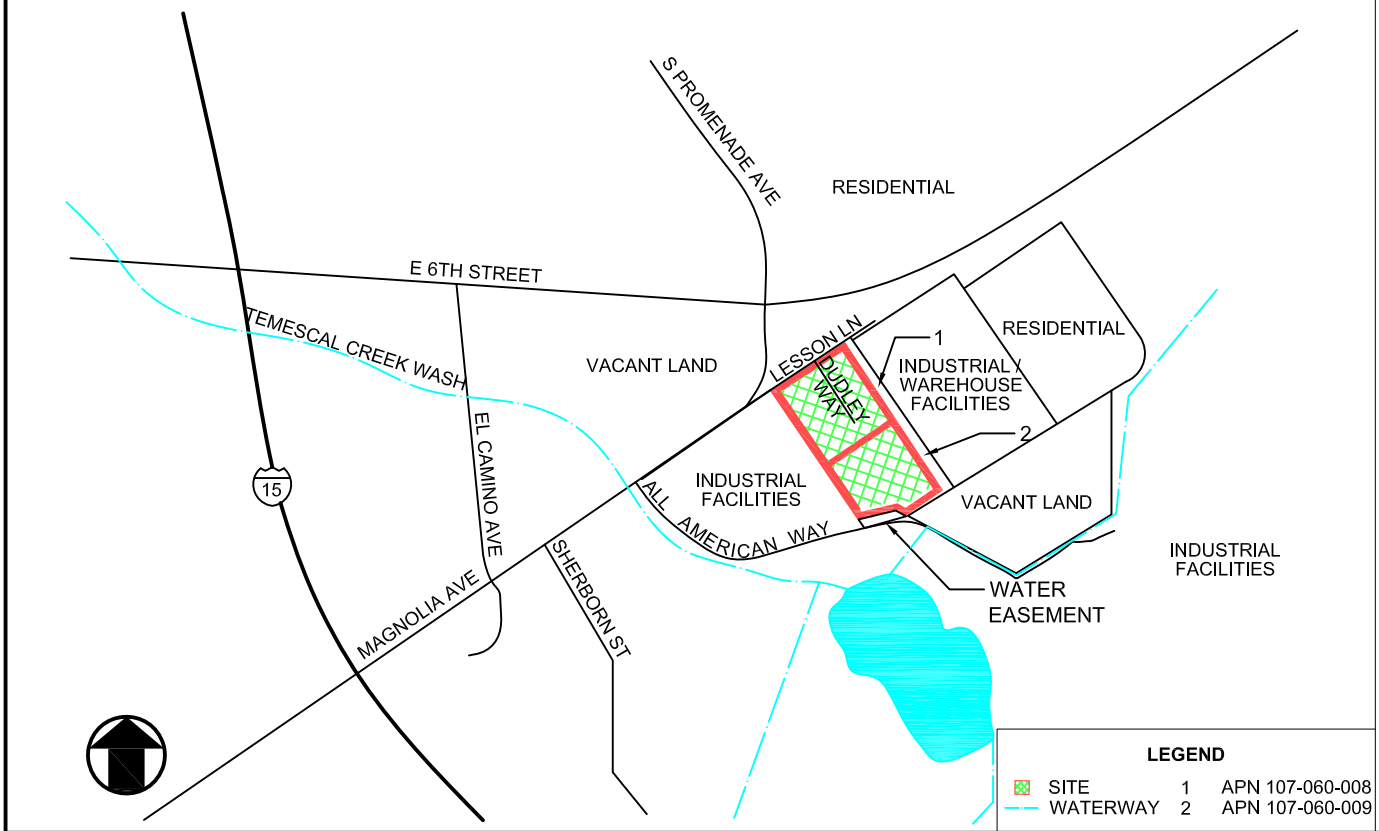
CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	*CREATED BY:*	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	*CEHS PROJECT NUMBER:*	2015.01.003
		SOURCE(S):	USGS CORONA SOUTH QUADR.

SOUTHERN CALIFORNIA EDISON®

An *EDISON INTERNATIONAL®* Company

AERIAL PHOTO



GENERAL SITE LAYOUT

FIGURE 2 - AERIAL PHOTO

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	*CREATED BY:*	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	*CEHS PROJECT NUMBER:*	2015.01.003
		SOURCE(S):	GOOGLE EARTH

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Appendix A

Photographs

PHOTO NUMBER:	1	DATE TAKEN:	1/23/2015	POSITIONING:	NORTH SIDE OF THE SITE, LOOKING SOUTHEAST
DESCRIPTION:	AGGREGATE STOCK PILE LOCATED ON THE NORTH PORTION OF THE SITE.				

PHOTO NUMBER:	2	DATE TAKEN:	1/23/2015	POSITIONING:	NORTHWEST SIDE OF THE SITE, LOOKING SOUTHEAST
DESCRIPTION:	DEBRIS, UNDERGROUND PIPING AND UTILITIES, LOCATED ON THE NORTH PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

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PHOTO NUMBER:	3	DATE TAKEN:	1/23/2015	POSITIONING:	EAST SIDE OF THE SITE, LOOKING NORTHEAST
DESCRIPTION:	ADJACENT PROPERTY LOCATED EAST OF THE SITE.				

PHOTO NUMBER:	4	DATE TAKEN:	1/23/2015	POSITIONING:	SOUTHEAST CORNER OF THE SITE, LOOKING NORTHWEST
DESCRIPTION:	EAST PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

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PHOTO NUMBER:	5	DATE TAKEN:	1/23/2015	POSITIONING:	SOUTH SIDE OF THE SITE, LOOKING SOUTHEAST
DESCRIPTION:	WATER PUMPING SYSTEM LOCATED ON THE SOUTH PORTION OF THE SITE.				

PHOTO NUMBER:	6	DATE TAKEN:	1/23/2015	POSITIONING:	SOUTH SIDE OF THE SITE, LOOKING SOUTHWEST
DESCRIPTION:	SOUTH PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

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PHOTO NUMBER:	7	DATE TAKEN:	1/23/2015	POSITIONING:	SOUTH SIDE OF THE SITE, LOOKING NORTHWEST
DESCRIPTION:	ROOF AND TILE DEBRIS LOCATED ON THE SOUTH PORTION OF THE SITE.				

PHOTO NUMBER:	8	DATE TAKEN:	1/23/2015	POSITIONING:	SOUTH SIDE OF THE SITE, LOOKING NORTHWEST
DESCRIPTION:	CLOSE UP OF ROOF AND TILE DEBRIS LOCATED ON THE SOUTH PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

SOUTHERN CALIFORNIA EDISON®

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PHOTO NUMBER:	9	DATE TAKEN:	1/23/2015	POSITIONING:	EAST SIDE OF THE SITE, LOOKING SOUTHWEST
DESCRIPTION:	CENTER PORTION OF THE SITE.				

PHOTO NUMBER:	10	DATE TAKEN:	1/23/2015	POSITIONING:	CENTER OF THE SITE, LOOKING NORTH
DESCRIPTION:	UNDERGROUND PIPING LOCATED ON THE CENTER PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

SOUTHERN CALIFORNIA EDISON®

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PHOTO NUMBER:	11	DATE TAKEN:	1/23/2015	POSITIONING:	CENTER OF THE SITE, LOOKING NORTH
DESCRIPTION:	ABOVE GROUND PIPING SYSTEM LOCATED ON THE CENTER PORTION OF THE SITE.				

PHOTO NUMBER:	12	DATE TAKEN:	1/23/2015	POSITIONING:	CENTER OF THE SITE, LOOKING NORTHWEST
DESCRIPTION:	CENTER PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

SOUTHERN CALIFORNIA EDISON®

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PHOTO NUMBER:	13	DATE TAKEN:	1/23/2015	POSITIONING:	EAST SIDE OF THE SITE, LOOKING WEST
DESCRIPTION:	BATTERY LOCATED ON THE WEST SIDE OF THE SITE.				

PHOTO NUMBER:	14	DATE TAKEN:	1/23/2015	POSITIONING:	WEST SIDE OF THE SITE, LOOKING WEST
DESCRIPTION:	CONCRETE BARRIERS LOCATED ON THE WEST PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

SOUTHERN CALIFORNIA EDISON®

An EDISON INTERNATIONAL® Company

PHOTO NUMBER:	15	DATE TAKEN:	1/23/2015	POSITIONING:	CENTER OF THE SITE, LOOKING SOUTH
DESCRIPTION:	UNDERGROUND PIPING LOCATED ON THE CENTER PORTION OF THE SITE.				

PHOTO NUMBER:	16	DATE TAKEN:	1/23/2015	POSITIONING:	CENTER OF THE SITE, LOOKING SOUTH
DESCRIPTION:	METAL DEBRIS LOCATED ON THE CENTER PORTION OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

SOUTHERN CALIFORNIA EDISON®

An EDISON INTERNATIONAL® Company

PHOTO NUMBER:	17	DATE TAKEN:	1/23/2015	POSITIONING:	NORTHWEST CORNER OF THE SITE, LOOKING SOUTHEAST
DESCRIPTION:	WEST PORTION OF THE SITE.				

PHOTO NUMBER:	18	DATE TAKEN:	1/23/2015	POSITIONING:	NORTH SIDE OF THE SITE, LOOKING NORTH
DESCRIPTION:	PIPING LOCATED ON THE NORTH SIDE OF THE SITE.				

PHOTOS

CIRCLE CITY SUBSTATION

LAT/LONG:	(33.870899, -117.529770)	CREATED BY:	KURT PAUL
		REVISED ON:	1/30/2015
CITY/STATE:	CORONA, CALIFORNIA	CEHS PROJECT NUMBER:	2015.01.003
		SOURCE(S):	

SOUTHERN CALIFORNIA EDISON®

An EDISON INTERNATIONAL® Company

Appendix B

EDR Environmental Lien Reports

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.7
January 20, 2015

EDR Environmental Lien and AUL Search

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

Magnolia Avenue
Circle City Substation
Corona, CA 92879

RESEARCH SOURCE

Source 1:

Riverside Recorder
Riverside, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	deed
Title is vested in:	PPII LLC
Title received from:	Princeland Prop Inc
Deed Dated	12/30/2011
Deed Recorded:	12/30/2011
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhbit
Legal Current Owner:	PPII LLC
Parcel # / Property Identifier:	107-060-008, 107-060-009
Comments:	See Exhbit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

1

RECORDING REQUESTED BY
AND WHEN RECORDED MAIL
THIS DEED TO:

RECORDING REQUESTED BY
FIRST AMERICAN TITLE INSURANCE CO
NATIONAL COMMERCIAL SERVICES

Robert M. Rasch
Balog & Rasch, LLP
1601 Dove Street
Suite 184
Newport Beach, CA 92660

DOC # 2011-0579002
12/30/2011 02:25 PM Fees: $28.00
Page 1 of 2
Recorded in Official Records
County of Riverside
Larry W. Ward
Assessor, County Clerk & Recorder

This document was electronically submitted to the County of Riverside for recording
Receipted by: MABRERA

APN: 107-060-008, 107-060-009
Accm. 188(b)

GRANT DEED

SPACE ABOVE THIS LINE FOR RECORDER'S USE

This conveyance changes the manner in which title is held, grantor and grantee remain the same and continue to hold the same proportionate interest, R & T 11911

DOCUMENTARY TRANSFER TAX $ NONE
[ ] computed on full value of property conveyed, or
[ ] computed on full value less value of liens and encumbrances remaining at the time of sale.

Signature of Declarant or Agent Determining Tax — Firm Name

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Princeland Properties (International), Inc., a California corporation

hereby GRANTS to PPII, LLC, a California limited liability company

the following described real property in the City of Corona, County of Riverside, State of California:

See Exhibit A attached hereto and incorporated herein by reference.

THIS INSTRUMENT FILED FOR RECORD BY
FIRST AMERICAN TITLE COMPANY AS AN ACCOMMODATION
ONLY IT HAS NOT BEEN EXAMINED AS TO ITS EXECUTION
OR AS TO ITS EFFECT UPON THE TITLE

Document Dated: December 30, 2011

PRINCELAND PROPERTIES (INTERNATIONAL), INC.,
A CALIFORNIA CORPORATION

By: _____
JAMES D. PRAUSE, President

STATE OF CALIFORNIA

COUNTY OF ORANGE

On December 30, 2011, before me, Julie K McDonald, Notary Public, personally appeared James D. Prause, who 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 on behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

JULIE K. MCDONALD
Commission # 1886715
Notary Public - California
Orange County
My Comm. Expires Apr 23, 2014

MAIL TAX STATEMENTS TO: PPII, LLC, 26039 Acero, Ste 101, Mission Viejo, CA 92691

EXHIBIT A

Lots 2 and 7 in Block 62 of the lands of the Riverside Land and Irrigating Company, as per map recorded in Book 1, Page 70 of Maps, in the office of the County Recorder of San Bernardino County, California.

Together with that portion of the Southeasterly 26 feet of Magnolia Avenue adjoining Lot 2 as vacated by an order of Supervisors of the County of Riverside, recorded November 30, 1927, in Book 739, Page 462, of Deeds, Riverside County Records.

Said property is also shown on a portion of Parcel 1 of Record of Survey filed in Book 40, Page 59 of Records of Survey, in the Office of the County Recorder of Riverside County, California.

Said property is also shown as Parcel 1 of Parcel Map recorded in Book 12, Page 67 of Parcel Maps, in the Office of the County Recorder of Riverside County, California.

Appendix C

EDR Radius Map Reports

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.2s
January 16, 2015

The EDR Radius Map™ Report with GeoCheck®

Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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 (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MAGNOLIA AVENUE
RIVERSIDE County, CA 92879

COORDINATES

Latitude (North):	33.8707000 - 33° 52' 14.52''
Longitude (West):	117.5296000 - 117° 31' 46.56''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	451017.2
UTM Y (Meters):	3747751.8
Elevation:	659 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	33117-G5 CORONA SOUTH, CA
Most Recent Revision:	1988
North Map:	33117-H5 CORONA NORTH, CA
Most Recent Revision:	1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120519
Source:	USDA

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

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations

ODI	Open Dump Inventory
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
CDL	Clandestine Drug Labs
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information
LIENS	Environmental Liens Listing
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

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
CA BOND EXP. PLAN	Bond Expenditure Plan
UIC	UIC Listing
NPDES	NPDES Permits Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities

WIP Well Investigation Program Case List
ENF Enforcement Action Listing
HAZNET Facility and Manifest Data
EMI Emissions Inventory Data
INDIAN RESERV Indian Reservations
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
LEAD SMELTERS Lead Smelter Sites
PRP Potentially Responsible Parties
2020 COR ACTION 2020 Corrective Action Program List
COAL ASH DOE Steam-Electric Plant Operation Data
US AIRS Aerometric Information Retrieval System Facility Subsystem
WDS Waste Discharge System
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
Financial Assurance Financial Assurance Information Listing
MWMP Medical Waste Management Program Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants

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

Federal CERCLIS list

EXECUTIVE SUMMARY

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there are 3 CERCLIS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADVANCED FUELS FILTRATION SYST	***1451 MAGNOLIA AVENUE***	***WNW 1/8 - 1/4 (0.177 mi.)***	***F18***	***40***
6TH AND CORONA	1436 EAST 6TH ST.	WNW 1/8 - 1/4 (0.177 mi.)	F19	44
SHERBORN MAGNOLIA DRUM SITE	***SHERBORN & MAGNOLIA STR***	***WSW 1/4 - 1/2 (0.365 mi.)***	***J29***	***69***

Federal RCRA generators list

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 06/10/2014 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT	1776 ALL AMERICAN WY.	SE 0 - 1/8 (0.018 mi.)	A3	12

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 06/10/2014 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
POLYSTYRENE RECYCLING CO OF AM	***720 S TEMESCAL ST***	***ESE 1/8 - 1/4 (0.159 mi.)***	***E16***	***37***
L H RESEARCH	720 S TEMESCAL ST	ESE 1/8 - 1/4 (0.159 mi.)	E17	38

Lower Elevation	Address	Direction / Distance	Map ID	Page
TREE ISLAND INDUSTRIES DBA USA	***1620 LEESON LANE***	***0 - 1/8 (0.000 mi.)***	***1***	***8***
SAN VALLE TILE KILNS INC	***1620 EAST MAGNOLIA AVE***	***NW 0 - 1/8 (0.006 mi.)***	***2***	***9***
MORE TRUCK LINES	***14272 MAGNOLIA AVE***	***N 0 - 1/8 (0.081 mi.)***	***B8***	***31***
BORAL RESOURCES CORONA	14270 MAGNOLIA AVE	N 0 - 1/8 (0.081 mi.)	B9	32
EDS AUTO WRECKING	***14264 MAGNOLIA AVE***	***N 0 - 1/8 (0.082 mi.)***	***B10***	***33***

State- and tribal - equivalent CERCLIS

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 11/03/2014 has revealed that there are 7 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALOS VERDES BUILDING CORP Status: Inactive - Needs Evaluation	***1675 SAMPSON AVE***	***NNW 1/2 - 1 (0.522 mi.)***	***35***	***86***
HOME GARDENS ELEMENTARY SCHOOL Status: Certified	***13550 TOLTON AVENUE***	***NE 1/2 - 1 (0.580 mi.)***	***36***	***95***
GLENN A. SINGER, INC. Status: Refer: Other Agency	1865 SAMPSON AVE	NNE 1/2 - 1 (0.602 mi.)	38	104

Lower Elevation	Address	Direction / Distance	Map ID	Page
CLOW VALVE, INC. Status: Inactive - Needs Evaluation Status: Refer: Other Agency	***1375 MAGNOLIA AVENUE***	***WSW 1/4 - 1/2 (0.364 mi.)***	***J28***	***57***
ALUMINUM & MAGNESIUM INC. DIVI Status: Inactive - Needs Evaluation	1300 W. SAMPSON	NW 1/2 - 1 (0.743 mi.)	39	105
IMCO WASTE DISPOSAL AREA (FORM Status: Certified O&M - Land Use Restrictions Only	***1462 QUARRY STREET***	***WNW 1/2 - 1 (0.769 mi.)***	***40***	***106***
H & E ENGINEERING Status: Refer: Other Agency	958 EL SOBRANTE RD.	W 1/2 - 1 (0.786 mi.)	41	118

State and tribal landfill and/or solid waste disposal site lists

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, and dated 11/17/2014 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT, UNIT NO.	***1776 ALL AMERICAN WAY***	***SE 0 - 1/8 (0.018 mi.)***	***A4***	***13***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS TRANSFER STATION	1330 MAGNOLIA AVE.	WSW 1/4 - 1/2 (0.374 mi.)	J32	77

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/12/2014 has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT, UNIT NO.	***1776 ALL AMERICAN WAY***	***SE 0 - 1/8 (0.018 mi.)***	***A4***	***13***
Status: Completed - Case Closed				
MOBIL STATION	***13653 MAGNOLIA ST***	***NE 1/4 - 1/2 (0.444 mi.)***	***34***	***79***
Status: Completed - Case Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ASSOCIATED READY MIXED CONCRET	***1480 MAGNOLIA***	***W 1/8 - 1/4 (0.180 mi.)***	***H23***	***52***
Status: Completed - Case Closed				
SIX PAC INDUSTRIES INC	***1428 E SIXTH ST***	***WNW 1/4 - 1/2 (0.380 mi.)***	***K33***	***78***

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/12/2014 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CORONA CROSS ROADS	N/A SHERBORN STREET	SSW 1/8 - 1/4 (0.248 mi.)	I26	56
CORONA CROSS ROADS	N/A SHERBORN STREET	SSW 1/8 - 1/4 (0.248 mi.)	I27	56
Facility Status: Completed - Case Closed				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 09/17/2014 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT	1776 ALL AMERICAN WY	SE 0 - 1/8 (0.018 mi.)	A5	27
WESTERN WASTE INDUSTRIES	***800 S TEMESCAL ST***	***E 1/8 - 1/4 (0.128 mi.)***	***C12***	***35***

Lower Elevation	Address	Direction / Distance	Map ID	Page
US FOODS	1283 SHERBORN ST 102	SSW 1/8 - 1/4 (0.248 mi.)	I25	56

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT, UNIT NO.	***1776 ALL AMERICAN WAY***	***SE 0 - 1/8 (0.018 mi.)***	***A4***	***13***
WASTE MGMT INLAND EMPIRE	800 S. TEMESCAL ST.	E 1/8 - 1/4 (0.128 mi.)	C11	34

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 09/22/2014 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY OF CORONA SITE	1601 SHERBORN RD	SSW 1/4 - 1/2 (0.372 mi.)	30	71

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 09/16/2014 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SIX PAC RECYCLING CORP	***1430 E 6TH ST***	***WNW 1/4 - 1/2 (0.373 mi.)***	***K31***	***76***

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT, UNIT NO.	***1776 ALL AMERICAN WAY***	***SE 0 - 1/8 (0.018 mi.)***	***A4***	***13***

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTERN WASTE INDUSTRIES	***800 S TEMESCAL CANYON R***	***E 1/8 - 1/4 (0.153 mi.)***	***C13***	***36***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
FONTANA PAVING INC	***14270 MAGNOLIA AVE***	***N 0 - 1/8 (0.076 mi.)***	***B7***	***30***

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
SAN VALLE TILE KILNS INC	***1620 EAST MAGNOLIA AVE***	***NW 0 - 1/8 (0.006 mi.)***	***2***	***9***
BORAL RESOURCES INC, CORONA PL	***14270 MAGNOLIA AV***	***N 0 - 1/8 (0.076 mi.)***	***B6***	***27***

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTERN WASTE INDUSTRIES	***800 S TEMESCAL CANYON R***	***E 1/8 - 1/4 (0.153 mi.)***	***C13***	***36***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
FONTANA PAVING INC	***14270 MAGNOLIA AVE***	***N 0 - 1/8 (0.076 mi.)***	***B7***	***30***

Other Ascertainable Records

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, and dated 08/05/2014 has revealed that there are 2 US MINES sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN AGGREGATES		ESE 1/8 - 1/4 (0.180 mi.)	G20	46
ALL AMERICAN AGGREGATES		ESE 1/8 - 1/4 (0.180 mi.)	G21	52

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 3 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALL AMERICAN ASPHALT, UNIT NO.	*1776 ALL AMERICAN WAY*	*SE 0 - 1/8 (0.018 mi.)*	*A4*	*13*
MOBIL STATION	*13653 MAGNOLIA ST*	*NE 1/4 - 1/2 (0.444 mi.)*	*34*	*79*
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
ASSOCIATED READY MIXED CONCRET	*1480 MAGNOLIA*	*W 1/8 - 1/4 (0.180 mi.)*	*H23*	*52*

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SMOG CHECK CORONA	*13537 MAGNOLIA*	*NE 1/2 - 1 (0.598 mi.)*	*37*	*101*

PROC: A listing of certified processors.

A review of the PROC list, as provided by EDR, and dated 09/16/2014 has revealed that there is 1 PROC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SIX PAC RECYCLING CORP	*1430 E 6TH ST*	*WNW 1/4 - 1/2 (0.373 mi.)*	*K31*	*76*

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: 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.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 3 EDR US

EXECUTIVE SUMMARY

Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1525 E 6TH ST	NW 1/8 - 1/4 (0.244 mi.)	24	56

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1655 E 6TH ST	NW 1/8 - 1/4 (0.154 mi.)	D14	36
Not reported	1480 MAGNOLIA AVE	W 1/8 - 1/4 (0.180 mi.)	H22	52

EDR US Hist 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.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there is 1 EDR US Hist Cleaners site within approximately 0.25 miles of the target property.

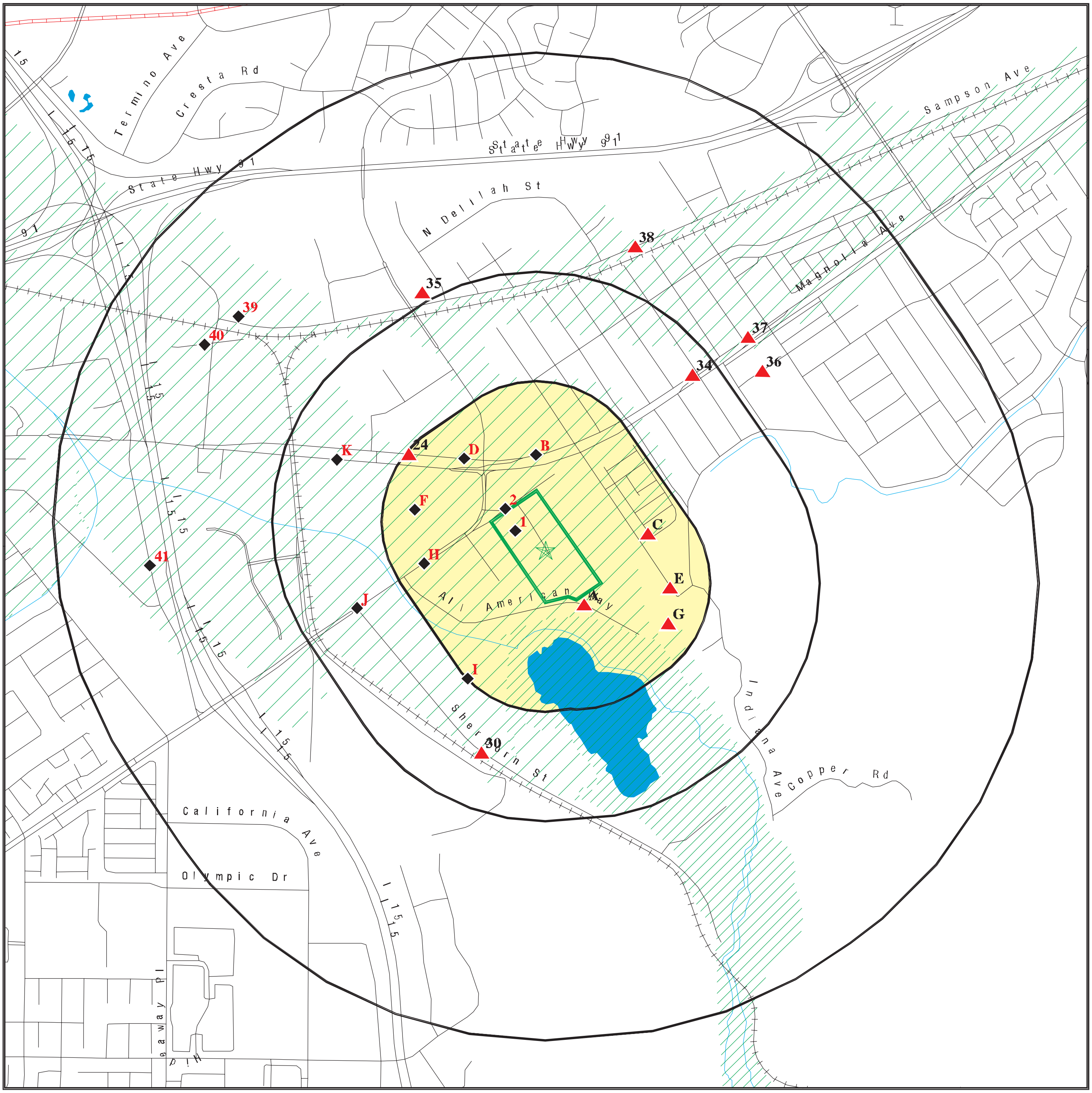
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1655 E 6TH ST	NW 1/8 - 1/4 (0.154 mi.)	D15	37

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
CT CORONA	SLIC

OVERVIEW MAP - 4184596.2S



0 1/4 1/2 1 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
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- 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: Circle City Substation ADDRESS: Magnolia Avenue Corona CA 92879 LAT/LONG: 33.8707 / 117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY #: 4184596.2s DATE: January 16, 2015 8:15 pm

DETAIL MAP - 4184596.2S

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
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- 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:	Circle City Substation	CLIENT:	Southern California Edison
ADDRESS:	Magnolia Avenue Corona CA 92879	CONTACT:	Violet Flores
		INQUIRY #:	4184596.2s
LAT/LONG:	33.8707 / 117.5296	DATE:	January 16, 2015 8:16 pm

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								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	2	1	NR	NR	3
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		5	2	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	6	NR	7
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		1	0	1	NR	NR	2
State and tribal leaking storage tank lists								
LUST	0.500		1	1	2	NR	NR	4

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
SLIC	0.500		0	2	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		1	2	NR	NR	NR	3
AST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
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
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		1	0	0	NR	NR	1
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	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
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		1	1	NR	NR	NR	2
HIST UST	0.250		2	0	NR	NR	NR	2
SWEEPS UST	0.250		1	1	NR	NR	NR	2
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	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
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	2	NR	NR	NR	2
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		1	1	1	NR	NR	3
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
PROC	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
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	3	NR	NR	NR	3
EDR US Hist Cleaners	0.250		0	1	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **TREE ISLAND INDUSTRIES DBA USA WIRE** **RCRA-SQG** **1001967451**
1620 LEESON LANE **FINDS** **CAR000069187**
< 1/8 **CORONA, CA 92879**
1 ft.

Relative:
Lower

Actual:
657 ft.

RCRA-SQG:

Date form received by agency:	08/10/2000
Facility name:	U S A INDUSTRIES
Facility address:	1620 LEESON CORONA, CA 92879
EPA ID:	CAR000069187
Contact:	PAM SMALLWOOD
Contact address:	1620 LEESON CORONA, CA 91719
Contact country:	US
Contact telephone:	(909) 279-1990
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	U S A INDUSTRIES
Owner/operator address:	1620 LEESON CORONA, CA 91719
Owner/operator country:	Not reported
Owner/operator telephone:	(909) 279-1990
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/10/2000
Site name:	U S A INDUSTRIES
Classification:	Small Quantity Generator

TREE ISLAND INDUSTRIES DBA USA WIRE (Continued) **1001967451**

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110008288316

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

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.

Registry ID: 110057259381

Environmental Interest/Information System
OSHA ESTABLISHMENT

2
NW
< 1/8
0.006 mi.
32 ft.

SAN VALLE TILE KILNS INC
1620 EAST MAGNOLIA AVE
CORONA, CA 92879

RCRA-SQG **1000135449**
FINDS **CAD981412968**
HIST UST
EMI

Relative:
Lower

Actual:
654 ft.

RCRA-SQG:
Date form received by agency: 05/13/1986
Facility name: SAN VALLE TILE KILNS INC
Facility address: 1620 EAST MAGNOLIA AVE
CORONA, CA 92879

SAN VALLE TILE KILNS INC (Continued) **1000135449**

EPA ID:	CAD981412968
Mailing address:	1849 SAWTELLE BLVD #610 LOS ANGELES, CA 90023
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1620 EAST MAGNOLIA AVENUE CORONA, CA 91719
Contact country:	US
Contact telephone:	(213) 478-0039
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SAN VALLE TILE KILNS INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

SAN VALLE TILE KILNS INC (Continued) **1000135449**

FINDS:

Registry ID: 110008268258

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.

HIST UST:

Region:	STATE
Facility ID:	00000004361
Facility Type:	Other
Other Type:	MFG. CLAY RFG. TILE
Contact Name:	MR. VICENTE PEREDA, PLANT MANA
Telephone:	7147354111
Owner Name:	SAN VALLE' TILE KILNS, INC.
Owner Address:	1717 NORTH HIGHLAND AVENUE, ST
Owner City,St,Zip:	LOS ANGELES, CA 90028
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1966
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, None

EMI:

Year:	1987
County Code:	33
Air Basin:	SC
Facility ID:	16417
Air District Name:	SC
SIC Code:	3255
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

A3
SE
< 1/8
0.018 mi.
97 ft.

ALL AMERICAN ASPHALT
1776 ALL AMERICAN WY.
CORONA, CA 92879

Site 1 of 3 in cluster A

RCRA-LQG **1012175590**
CAL000070001

Relative:
Higher

Actual:
662 ft.

RCRA-LQG:

Date form received by agency:	01/16/2008
Facility name:	ALL AMERICAN ASPHALT
Facility address:	1776 ALL AMERICAN WY. CORONA, CA 92879
EPA ID:	CAL000070001
Mailing address:	P.O. BOX 2229 CORONA, CA 92878
Contact:	GARY L MILEY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(951) 736-7688
Contact email:	GMILEY@ALLAMERICANASPHALT.NET
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	DIX LEASING CORP.
Owner/operator address:	P.O. BOX 2229 CORONA, CA 92878
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/15/1962
Owner/Op end date:	Not reported
Owner/operator name:	ALL AMERICAN ASPHALT
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/29/1969
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

ALL AMERICAN ASPHALT (Continued) **1012175590**

Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D003
Waste name:	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Violation Status:	No violations found

A4 **ALL AMERICAN ASPHALT, UNIT NO.01** **SWF/LF** **S104384481**
SE **1776 ALL AMERICAN WAY** **NPDES** **N/A**
< 1/8 **CORONA, CA 91719** **HIST CORTESE**
0.018 mi. **LUST**
97 ft. **Site 2 of 3 in cluster A** **AST**
LDS
Relative: **EMI**
Higher **HAULERS**
WDS
Actual: **WMUDS/SWAT**
662 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	33-AA-0251
Lat/Long:	33.8654799 / -117.52777
Owner Name:	Sisemore, Daniel D.
Owner Telephone:	Not reported
Owner Address:	Not reported
Owner Address2:	P O Box 2229
Owner City,St,Zip:	Corona, CA 92878-2229
Operational Status:	Active
Operator:	All American Asphalt
Operator Phone:	9517363844
Operator Address:	Not reported

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Operator Address2:	400 East 6th Street
Operator City,St,Zip:	Corona, CA 92879-1521
Permit Date:	07/13/2006
Permit Status:	Notification
Permitted Acreage:	297
Activity:	Inert Debris ENG Fill Operation
Regulation Status:	Notification
Landuse Name:	Industrial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Construction/demolition,Inert
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	65
SWIS Num:	33-AA-0251
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	1150
Actual Throughput with Units:	Tires/day
Permitted Capacity with Units:	1150
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Tons/year
Lat/Long:	33.8654799 / -117.52777

NPDES:

Npdes Number:	CAG998001
Facility Status:	Active
Agency Id:	1190
Region:	8
Regulatory Measure Id:	209302
Order No:	R8-2009-0003
Regulatory Measure Type:	Enrollee
Place Id:	219799
WDID:	8 332675001
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/27/2001
Expiration Date Of Regulatory Measure:	03/01/2014
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	All American Asphalt
Discharge Address:	400 East Sixth Street
Discharge City:	Corona
Discharge State:	CA
Discharge Zip:	92879

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	8
Regulatory Measure Id:	210716
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 33I003216
Program Type:	Industrial

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/03/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	All American Asphalt
Discharge Address:	PO Box 2229
Discharge City:	Corona
Discharge State:	California
Discharge Zip:	92878
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	403208
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 33C358073
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/04/2010
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	07/10/2012
Discharge Name:	Dix Leasing Corp Daniel D Sisemore
Discharge Address:	PO Box 2229
Discharge City:	Corona
Discharge State:	California
Discharge Zip:	92898

HIST CORTESE:

Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	083302216T

LUST:

Region:	STATE
Global Id:	T0606500311
Latitude:	33.8689749
Longitude:	-117.5226405
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/14/1994
Lead Agency:	RIVERSIDE COUNTY LOP
Case Worker:	UNK
Local Agency:	RIVERSIDE COUNTY LOP
RB Case Number:	083302216T
LOC Case Number:	93006
File Location:	Local Agency Warehouse
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Contact:

Global Id:	T0606500311
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:	cbernhardt@waterboards.ca.gov
Phone Number:	9517824495

Global Id:	T0606500311
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0606500311
Status:	Open - Case Begin Date
Status Date:	06/09/1992

Global Id:	T0606500311
Status:	Completed - Case Closed
Status Date:	07/14/1994

Regulatory Activities:

Global Id:	T0606500311
Action Type:	Other
Date:	06/09/1992
Action:	Leak Discovery

Global Id:	T0606500311
Action Type:	ENFORCEMENT
Date:	07/14/1993
Action:	Closure/No Further Action Letter - #Riv Co Closure

Global Id:	T0606500311
Action Type:	Other
Date:	06/09/1992
Action:	Leak Reported

Global Id:	T0606500311
Action Type:	Other
Date:	06/09/1992
Action:	Leak Stopped

Global Id:	T0606500311
Action Type:	ENFORCEMENT
Date:	07/13/1993
Action:	File review - #RCDEH Upload Site File 4/20/2010

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

LUST REG 8:

Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083302216T
Local Case Num:	93006
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	MAGNOLIA
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0606500311
How Stopped Date:	6/9/1992
Enter Date:	3/18/1993
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/9/1992
Enforcement Date:	Not reported
Close Date:	7/14/1994
Date Prelim Assessment Workplan Submitted:	Not reported
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:	3/18/1993
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8689749
Longitude:	-117.5226405
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:	CAB
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

RIVERSIDE CO. LUST:

Region:	RIVERSIDE
Facility ID:	93006
Employee:	Jones
Site Closed:	Yes
Case Type:	Soil only
Facility Status:	closed/action completed

AST:

Certified Unified Program Agencies:	Riverside
Owner:	ALL AMERICAN ASPHALT
Total Gallons:	20,000

LDS:

Global Id:	L10005540133
Latitude:	33.86843
Longitude:	-117.5248
Case Type:	Land Disposal Site
Status:	Open - Operating
Status Date:	11/01/2014
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Caseworker:	KDP
Local Agency:	Not reported
RB Case Number:	8 332360001
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Not reported
EDR Link ID:	L10005540133
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1993
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	15
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6

Year:	1993
County Code:	33

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Air Basin:	SC
Facility ID:	22334
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	21
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	28
Part. Matter 10 Micrometers & Smllr Tons/Yr:	3

Year:	1995
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	15
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6

Year:	1995
County Code:	33
Air Basin:	SC
Facility ID:	22334
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	21
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	28
Part. Matter 10 Micrometers & Smllr Tons/Yr:	3

Year:	1996
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	35
Part. Matter 10 Micrometers & Smllr Tons/Yr:	14

Year:	1997
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6

Year:	1998
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6

Year:	1999
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6
Year:	2000
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6
Year:	2001
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	16
Part. Matter 10 Micrometers & Smllr Tons/Yr:	7
Year:	2002
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5
Year:	2003
County Code:	33
Air Basin:	SC

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5

Year:	2004
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.8276
Reactive Organic Gases Tons/Yr:	3.53
Carbon Monoxide Emissions Tons/Yr:	6.4714
NOX - Oxides of Nitrogen Tons/Yr:	7.6068
SOX - Oxides of Sulphur Tons/Yr:	0.11251
Particulate Matter Tons/Yr:	13.8564
Part. Matter 10 Micrometers & Smllr Tons/Yr:	4.83

Year:	2005
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.5106
Reactive Organic Gases Tons/Yr:	3.76125832
Carbon Monoxide Emissions Tons/Yr:	17.932
NOX - Oxides of Nitrogen Tons/Yr:	8.898
SOX - Oxides of Sulphur Tons/Yr:	.10792
Particulate Matter Tons/Yr:	13.40598
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6.67117792

Year:	2006
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Total Organic Hydrocarbon Gases Tons/Yr:	11.07056128987121567
Reactive Organic Gases Tons/Yr:	8.531
Carbon Monoxide Emissions Tons/Yr:	11.045
NOX - Oxides of Nitrogen Tons/Yr:	10.159
SOX - Oxides of Sulphur Tons/Yr:	.147
Particulate Matter Tons/Yr:	143.629
Part. Matter 10 Micrometers & Smllr Tons/Yr:	64.956024

Year:	2007
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	2951
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11.07056128987121567
Reactive Organic Gases Tons/Yr:	8.531
Carbon Monoxide Emissions Tons/Yr:	11.045
NOX - Oxides of Nitrogen Tons/Yr:	10.159
SOX - Oxides of Sulphur Tons/Yr:	.147
Particulate Matter Tons/Yr:	143.629
Part. Matter 10 Micrometers & Smllr Tons/Yr:	64.956024

Year:	2008
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	1611
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.362242671640171643
Reactive Organic Gases Tons/Yr:	7.25
Carbon Monoxide Emissions Tons/Yr:	20.5
NOX - Oxides of Nitrogen Tons/Yr:	9.69
SOX - Oxides of Sulphur Tons/Yr:	.111917
Particulate Matter Tons/Yr:	64.04
Part. Matter 10 Micrometers & Smllr Tons/Yr:	31.71616

Year:	2009
County Code:	33
Air Basin:	SC
Facility ID:	3704
Air District Name:	SC
SIC Code:	1611
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.8499529137776101
Reactive Organic Gases Tons/Yr:	6.25
Carbon Monoxide Emissions Tons/Yr:	11.18
NOX - Oxides of Nitrogen Tons/Yr:	8.7699999999999996
SOX - Oxides of Sulphur Tons/Yr:	8.1790000000000002E-2
Particulate Matter Tons/Yr:	56.157519999999998

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Part. Matter 10 Micrometers & Smllr Tons/Yr: 27.497046480000002

Year: 2010
County Code: 33
Air Basin: SC
Facility ID: 3704
Air District Name: SC
SIC Code: 1611
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 9.2424938415427302
Reactive Organic Gases Tons/Yr: 6.9885700000000002
Carbon Monoxide Emissions Tons/Yr: 22.495039999999999
NOX - Oxides of Nitrogen Tons/Yr: 9.7904900000000001
SOX - Oxides of Sulphur Tons/Yr: 0.13089000000000001
Particulate Matter Tons/Yr: 63.039879999999997
Part. Matter 10 Micrometers & Smllr Tons/Yr: 31.554963069999999

Year: 2011
County Code: 33
Air Basin: SC
Facility ID: 3704
Air District Name: SC
SIC Code: 1611
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 9.2269670266
Reactive Organic Gases Tons/Yr: 6.98507
Carbon Monoxide Emissions Tons/Yr: 26.41962
NOX - Oxides of Nitrogen Tons/Yr: 11.00248
SOX - Oxides of Sulphur Tons/Yr: 0.17435
Particulate Matter Tons/Yr: 72.804890001
Part. Matter 10 Micrometers & Smllr Tons/Yr: 36.735281271

Year: 2012
County Code: 33
Air Basin: SC
Facility ID: 3704
Air District Name: SC
SIC Code: 1611
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 7.8305408971
Reactive Organic Gases Tons/Yr: 6.07635
Carbon Monoxide Emissions Tons/Yr: 18.47995
NOX - Oxides of Nitrogen Tons/Yr: 12.15648
SOX - Oxides of Sulphur Tons/Yr: 0.1628
Particulate Matter Tons/Yr: 55.74956001
Part. Matter 10 Micrometers & Smllr Tons/Yr: 27.63195723

HAULERS:
Facility ID: 1275095
Facility Phone: (951) 736-7617
Business Email Address: Not reported

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Contact Person: Mark Luer, John Garthe
Mailing Address: PO Box 2229
Mailing City: Corona
Mailing State: CA
Mailing Zip: 92878
Mailing County: Riverside
Mailing Phone: (951) 736-7617
Waste Tire Permit Summary: No Permit record for this business.

Detail:

SR#: 69
Current Role: Hauler
Current Role Status: Registered
Facility ID: 1275095

SR#: 69
Current Role: End Use
Current Role Status: Yes
Facility ID: 1275095

SR#: 69
Current Role: Generator
Current Role Status: Yes
Facility ID: 1275095

CA WDS:

Facility ID: Santa Ana River 33I003216
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: ALL AMERICAN ASPHALT
Agency Address: 400 E. SIXTH STREET
Agency City,St,Zip: CORONA 928791521
Agency Contact: DANIEL L. SISEMORE
Agency Telephone: 9097367600
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

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

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.

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	SLDWST
Primary Waste Type:	Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	ALL AMERICAN ASPHALT
Agency Department:	Not reported
Agency Address:	14274 MAGNOLIA AVE
Agency City,St,Zip:	CORONA CA 91720
Agency Contact:	MIKE RYAN
Agency Telephone:	9097367600
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	8
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	4953

ALL AMERICAN ASPHALT, UNIT NO.01 (Continued) **S104384481**

Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Not reported
Sub Chapter 15:	True
Regional Board Project Officer:	AES
Number of WMUDS at Facility:	0
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	H
Self-Monitoring Rept. Frequency:	Annual Submittal
Waste Discharge System ID:	8 332360001
Solid Waste Information ID:	Not reported

A5 **ALL AMERICAN ASPHALT** **UST** **U003802023**
SE **1776 ALL AMERICAN WY** **N/A**
< 1/8 **CORONA, CA 92879**
0.018 mi.
97 ft. **Site 3 of 3 in cluster A**

Relative:
Higher

Actual:
662 ft.

UST:

Facility ID:	17
Permitting Agency:	RIVERSIDE COUNTY
Latitude:	33.8698595
Longitude:	-117.5220666

RIVERSIDE CO. UST:

Region:	RIVERSIDE
Total Tanks:	5

B6 **BORAL RESOURCES INC, CORONA PL** **HIST UST** **U001569915**
North **14270 MAGNOLIA AV** **EMI** **N/A**
< 1/8 **CORONA, CA 91760**
0.076 mi.
402 ft. **Site 1 of 5 in cluster B**

Relative:
Lower

Actual:
655 ft.

HIST UST:

Region:	STATE
Facility ID:	00000024964
Facility Type:	Other
Other Type:	AC PRODUCER
Contact Name:	Not reported
Telephone:	7143503737
Owner Name:	FONTANA PAVING, INC.
Owner Address:	15384 ARROW
Owner City,St,Zip:	FONTANA, CA 92335
Total Tanks:	0008
Tank Num:	001
Container Num:	13

BORAL RESOURCES INC, CORONA PL (Continued) **U001569915**

Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 14
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 15
Year Installed: Not reported
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 007
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00003800
Tank Used for: PRODUCT

BORAL RESOURCES INC, CORONA PL (Continued) **U001569915**

Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 008
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000300
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

EMI:
Year: 1990
County Code: 33
Air Basin: SC
Facility ID: 502
Air District Name: SC
SIC Code: 2951
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 4
NOX - Oxides of Nitrogen Tons/Yr: 5
SOX - Oxides of Sulphur Tons/Yr: 3
Particulate Matter Tons/Yr: 5
Part. Matter 10 Micrometers & Smllr Tons/Yr: 2

Year: 1993
County Code: 33
Air Basin: SC
Facility ID: 502
Air District Name: SC
SIC Code: 2951
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 3
NOX - Oxides of Nitrogen Tons/Yr: 2
SOX - Oxides of Sulphur Tons/Yr: 2
Particulate Matter Tons/Yr: 2
Part. Matter 10 Micrometers & Smllr Tons/Yr: 2

Year: 1995
County Code: 33
Air Basin: SC
Facility ID: 502
Air District Name: SC
SIC Code: 2951
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

BORAL RESOURCES INC, CORONA PL (Continued) **U001569915**

Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

B7 **FONTANA PAVING INC** **CA FID UST** **S101618916**
North **14270 MAGNOLIA AVE** **SWEEPS UST** **N/A**
< 1/8 **CORONA, CA 91760**
0.076 mi.
402 ft. **Site 2 of 5 in cluster B**

Relative:
Lower

Actual:
655 ft.

CA FID UST:

Facility ID:	33000418
Regulated By:	UTNKA
Regulated ID:	00024964
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7143503737
Mail To:	Not reported
Mailing Address:	P O BOX 1328
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CORONA 91760
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

SWEEPS UST:

Status:	Active
Comp Number:	24964
Number:	1
Board Of Equalization:	44-018109
Referral Date:	10-29-92
Action Date:	10-29-92
Created Date:	02-29-88
Owner Tank Id:	001172
SWRCB Tank Id:	33-000-024964-000001
Tank Status:	A
Capacity:	5000
Active Date:	10-29-92
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

B8 **MORE TRUCK LINES** **RCRA-SQG** **1000199076**
North **14272 MAGNOLIA AVE** **FINDS** **CAD981996796**
< 1/8 **CORONA, CA 92879**
0.081 mi.
426 ft. **Site 3 of 5 in cluster B**

Relative:
Lower

Actual:
654 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MORE TRUCK LINES
Facility address:	14272 MAGNOLIA AVE CORONA, CA 92879
EPA ID:	CAD981996796
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DAN SIZEMORE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No

MORE TRUCK LINES (Continued) **1000199076**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/21/1987
Site name: MORE TRUCK LINES
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008274116

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.

B9 **BORAL RESOURCES CORONA** **RCRA-SQG** **1000904825**
North **14270 MAGNOLIA AVE** **CAD980371447**
< 1/8 **CORONA, CA 92879**
0.081 mi.
428 ft. **Site 4 of 5 in cluster B**

Relative:
Lower

Actual:
654 ft.

RCRA-SQG:
Date form received by agency: 05/05/1994
Facility name: BORAL RESOURCES CORONA
Facility address: 14270 MAGNOLIA AVE
CORONA, CA 92879
EPA ID: CAD980371447
Contact: KEN BARKER
Contact address: 1301 LEXINGTON AVE
POMONA, CA 91766
Contact country: US
Contact telephone: (909) 865-6855
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BORAL RESOURCES INC
Owner/operator address: 1301 E LEXINGTON AVE
POMONA, CA 91766
Owner/operator country: Not reported

BORAL RESOURCES CORONA (Continued) **1000904825**

Owner/operator telephone: (909) 865-6855
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B10 **EDS AUTO WRECKING** **RCRA-SQG 1000103246**
North **14264 MAGNOLIA AVE** **FINDS CAD982042749**
< 1/8 **CORONA, CA 92879**
0.082 mi.
432 ft. **Site 5 of 5 in cluster B**

Relative:
Lower

Actual:
654 ft.

RCRA-SQG:
Date form received by agency: 09/28/1987
Facility name: EDS AUTO WRECKING
Facility address: 14264 MAGNOLIA AVE
CORONA, CA 92879
EPA ID: CAD982042749
Contact: ENVIRONMENTAL MANAGER
Contact address: 14264 MAGNOLIA AVE
CORONA, CA 91719
Contact country: US
Contact telephone: (714) 737-6030
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: 3D AUTO PARTS & SVC INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private

EDS AUTO WRECKING (Continued) **1000103246**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008275589

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.

C11 **WASTE MGMT INLAND EMPIRE** **AST** **A100226735**
East **800 S. TEMESCAL ST.** **N/A**
1/8-1/4 **CORONA, CA 92879**
0.128 mi.
676 ft. **Site 1 of 3 in cluster C**

Relative:
Higher

Actual:
671 ft.

AST:
Certified Unified Program Agencies: Riverside
Owner: WASTE MGMT INLAND EMPIRE
Total Gallons: 4,800

C12 **WESTERN WASTE INDUSTRIES** **UST** **U003759488**
East **800 S TEMESCAL ST** **EMI** **N/A**
1/8-1/4 **CORONA, CA 92879**
0.128 mi.
676 ft. **Site 2 of 3 in cluster C**

Relative:
Higher

Actual:
671 ft.

UST:
Facility ID: 824
Permitting Agency: RIVERSIDE COUNTY
Latitude: 33.871913
Longitude: -117.525543

RIVERSIDE CO. UST:
Region: RIVERSIDE
Total Tanks: 1

EMI:

Year:	1990
County Code:	33
Air Basin:	SC
Facility ID:	69074
Air District Name:	SC
SIC Code:	4212
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1995
County Code:	33
Air Basin:	SC
Facility ID:	69074
Air District Name:	SC
SIC Code:	4212
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

C13 **WESTERN WASTE INDUSTRIES** **CA FID UST** **S101631175**
East **800 S TEMESCAL CANYON RD** **SWEEPS UST** **N/A**
1/8-1/4 **CORONA, CA 91719**
0.153 mi.
809 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
672 ft.

CA FID UST:

Facility ID:	33007086
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7147345630
Mail To:	Not reported
Mailing Address:	800 S TEMESCAL CANYON RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CORONA 91719
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

SWEEPS UST:

Status:	Active
Comp Number:	52301
Number:	1
Board Of Equalization:	44-008062
Referral Date:	09-19-89
Action Date:	09-19-89
Created Date:	09-19-89
Owner Tank Id:	19-1
SWRCB Tank Id:	33-000-052301-000001
Tank Status:	A
Capacity:	20000
Active Date:	09-19-89
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

D14 **EDR US Hist Auto Stat** **1015260981**
NW **1655 E 6TH ST** **N/A**
1/8-1/4 **CORONA, CA 92879**
0.154 mi.
812 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
649 ft.

EDR Historical Auto Stations:

Name:	WEST AUTO DIAGNOSTICSCORONA
Year:	2010
Address:	1655 E 6TH ST
Name:	WEST AUTO DIAGNOSTICS OF CORONA
Year:	2011
Address:	1655 E 6TH ST
Name:	WEST AUTO DIAGNOSTICS OF CORONA

(Continued) **1015260981**

Year: 2012
Address: 1655 E 6TH ST

D15 **EDR US Hist Cleaners** **1015002130**
NW **1655 E 6TH ST** **N/A**
1/8-1/4 **CORONA, CA 92879**
0.154 mi.
812 ft. **Site 2 of 2 in cluster D**

Relative:
Lower

EDR Historical Cleaners:
Name: ALL NATURAL CLEANING SVC
Year: 2010

Actual:
649 ft.

Address: 1655 E 6TH ST

E16 **POLYSTYRENE RECYCLING CO OF AMERICA** **RCRA-SQG** **1004675411**
ESE **720 S TEMESCAL ST** **FINDS** **CAR000072595**
1/8-1/4 **CORONA, CA 92879**
0.159 mi.
839 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

RCRA-SQG:
Date form received by agency: 05/04/2000
Facility name: POLYSTYRENE RECYCLING CO OF AMERICA

Actual:
680 ft.

Facility address: 720 S TEMESCAL ST
CORONA, CA 92879
EPA ID: CAR000072595
Contact: WILLIAM ARCHIBALD
Contact address: 720 S TEMESCAL ST
CORONA, CA 92879
Contact country: US
Contact telephone: (909) 736-7040
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: DONALD MC CANN
Owner/operator address: 5837 DISTRIBUTION DR
MEMPHIS, TN 38141
Owner/operator country: Not reported
Owner/operator telephone: (901) 795-2711
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

POLYSTYRENE RECYCLING CO OF AMERICA (Continued) **1004675411**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	D000
Waste name:	Not Defined
Waste code:	D039
Waste name:	TETRACHLOROETHYLENE
Violation Status:	No violations found

FINDS:

Registry ID: 110002936654

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.

Registry ID: 110008272546

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.

E17 **L H RESEARCH** **RCRA-SQG** **1000129857**
ESE **720 S TEMESCAL ST** **CAD981687296**
1/8-1/4 **CORONA, CA 92879**
0.159 mi.
839 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
680 ft.

RCRA-SQG:

Date form received by agency:	10/28/1986
Facility name:	L H RESEARCH
Facility address:	720 S TEMESCAL ST CORONA, CA 92879
EPA ID:	CAD981687296
Contact:	ENVIRONMENTAL MANAGER

L H RESEARCH (Continued) **1000129857**

Contact address: 720 S TEMESCAL ST
CORONA, CA 91720
Contact country: US
Contact telephone: (714) 730-0162
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: L H RESEARCH INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

F18 **ADVANCED FUELS FILTRATION SYSTEMS** **CERCLIS** **1007985418**
WNW **1451 MAGNOLIA AVENUE** **ICIS** **CAN000906122**
1/8-1/4 **CORONA, CA** **PRP**
0.177 mi.
932 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
650 ft.

CERCLIS:

Site ID:	0906122
EPA ID:	CAN000906122
Facility County:	RIVERSIDE
Short Name:	ADVANCED FUELS FILTRATION
Congressional District:	Not reported
IFMS ID:	09MQ
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	R
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	01/19/05
Site Fips Code:	06065
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	9270430.00000
Contact Name:	Hedy Salter
Contact Tel:	(415) 972-3046
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported
Contact ID:	9270647.00000
Contact Name:	Janet Yocum
Contact Tel:	(415) 972-3053
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported
Contact ID:	9270721.00000
Contact Name:	Robert Wise
Contact Tel:	(562) 499-6312
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported
Contact ID:	13003854.00000

ADVANCED FUELS FILTRATION SYSTEMS (Continued) **1007985418**

Contact Name: Leslie Ramirez
Contact Tel: (415) 972-3978
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 01/05/05
Date Completed: 01/05/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA In-House
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 02/04/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Notice of Intent by All Parties
Date Started: / /
Date Completed: 03/10/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

ADVANCED FUELS FILTRATION SYSTEMS (Continued) **1007985418**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL
Date Started: 01/05/05
Date Completed: 03/30/05
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Emergency
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 01/11/05
Date Completed: 03/30/05
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Emergency
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
5 additional US CERCLIS Financial: record(s) in the EDR Site Report.

ICIS:

Enforcement Action ID: 09-2005-0040
FRS ID: 110020499496
Program ID: FRS 110020499496
Action Name: ADVANCED FUEL FILTRATION
Full Address: 1451 MAGNOLIA CORONA CA 92879-2072
State: California
Facility Name: ADVANCED FUEL FILTRATION INC.
Facility Address: 1451 MAGNOLIA
CORONA, CA 92879-2072
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2005-0040
FRS ID: 110020499496
Program ID: CERCLIS CAN000906122
Action Name: ADVANCED FUEL FILTRATION
Full Address: 1451 MAGNOLIA CORONA CA 92879-2072
State: California
Facility Name: ADVANCED FUELS FILTRATION SYSTEMS
Facility Address: 1451 MAGNOLIA
CORONA, CA 92879-2072

ADVANCED FUELS FILTRATION SYSTEMS (Continued) **1007985418**

Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2005-0018
FRS ID: 110020499496
Program ID: FRS 110020499496
Action Name: ADVANCED FUEL FILTRATION
Full Address: 1451 MAGNOLIA CORONA CA 92879-2072
State: California
Facility Name: ADVANCED FUEL FILTRATION INC.
Facility Address: 1451 MAGNOLIA
CORONA, CA 92879-2072
Enforcement Action Type: CWA 311C AO For Removal
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2005-0018
FRS ID: 110020499496
Program ID: CERCLIS CAN000906122
Action Name: ADVANCED FUEL FILTRATION
Full Address: 1451 MAGNOLIA CORONA CA 92879-2072
State: California
Facility Name: ADVANCED FUELS FILTRATION SYSTEMS
Facility Address: 1451 MAGNOLIA
CORONA, CA 92879-2072
Enforcement Action Type: CWA 311C AO For Removal
Facility County: RIVERSIDE
EPA Region #: 9

Program ID: CERCLIS CAN000906122
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4212

Program ID: CERCLIS CAN000906122
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4953

Program ID: FRS 110020499496
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4212

Program ID: FRS 110020499496
Facility Name: ADVANCED FUEL FILTRATION INC.

ADVANCED FUELS FILTRATION SYSTEMS (Continued) **1007985418**

Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4953

Program ID: CERCLIS CAN000906122
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4212

Program ID: CERCLIS CAN000906122
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4953

Program ID: FRS 110020499496
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4212

Program ID: FRS 110020499496
Facility Name: ADVANCED FUEL FILTRATION INC.
Address: 1451 MAGNOLIA
Tribal Indicator: N
Fed Facility: Not reported
NAIC Code: Not reported
SIC Code: 4953

PRP:
PRP name: ADVANCED FUEL FILTRATION SYSTEMS, INC
BURR NORTHRUP
DOUG PARKER
ENTECH ENVIRONMENTAL SERVICES, INC
GROVER MOSS
H. B. COVEY, INC

F19 **6TH AND CORONA** **CERCLIS** **1014236889**
WNW **1436 EAST 6TH ST.** **CAN000909049**
1/8-1/4 **CORONA, CA 92879**
0.177 mi.
932 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
650 ft.

CERCLIS:
Site ID: 0909049
EPA ID: CAN000909049
Facility County: RIVERSIDE
Short Name: 6TH AND CORONA

6TH AND CORONA (Continued) **1014236889**

Congressional District:	Not reported
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	R
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Abandoned
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	08/02/10
Site Fips Code:	06065
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	9271140.00000
Contact Name:	Jason Musante
Contact Tel:	(213) 244-1818
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported

Contact ID:	13003854.00000
Contact Name:	Leslie Ramirez
Contact Tel:	(415) 972-3978
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Contact ID:	13003858.00000
Contact Name:	Sharon Murray
Contact Tel:	(415) 972-4250
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Contact ID:	13004003.00000
Contact Name:	Carl Brickner
Contact Tel:	Not reported
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Alias Comments: Not reported
Site Description: Corona, CA 92879 www.epaosc.org/6thStCorona Latitude: 33.8736745 Longitude: -117.5371455 KML | RSS | site map | area map | bookmark

6TH AND CORONA (Continued) **1014236889**

CERCLIS Assessment History:

Action Code:	001
Action:	POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL
Date Started:	08/02/10
Date Completed:	09/10/10
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Responsible Party
Planning Status:	Primary
Urgency Indicator:	Emergency
Action Anomaly:	Voluntary Cleanup Start and Complete

G20 **ALL AMERICAN AGGREGATES** **US MINES** **1016468605**
ESE **N/A**
1/8-1/4 **RIVERSIDE (County), CA**
0.180 mi.
949 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
675 ft.

US MINES:

Mine ID:	0403646
SIC code(s):	144200 000000 000000 000000 000000 000000
Entity name:	ALL AMERICAN AGGREGATES
Company:	ALL AMERICAN AGGREGATES
State FIPS code:	CA
County FIPS code:	RIVERSIDE
Status:	1
Status date:	19751112
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	33 52 05
Longitude:	117 31 28

Violations Details:

Violation Number:	8555821
Date Issued:	12/22/2009
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	12/28/2009
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2009

Violation Number:	8555822
Date Issued:	12/22/2009
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	12/23/2009

ALL AMERICAN AGGREGATES (Continued) **1016468605**

Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Violation Number: 8555820
Date Issued: 12/22/2009
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 12/23/2009
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Violation Number: 8555819
Date Issued: 12/22/2009
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 12/23/2009
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 127.00
Paid Penalty: 127.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 127.00
Year: 2009

Violation Number: 8555816
Date Issued: 12/21/2009
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 12/22/2009
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 127.00
Paid Penalty: 127.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 127.00
Year: 2009

Violation Number: 8555817
Date Issued: 12/21/2009
Mine Status: Active

ALL AMERICAN AGGREGATES (Continued) **1016468605**

Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	12/22/2009
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	127.00
Paid Penalty:	127.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	127.00
Year:	2009

Violation Number:	8555815
Date Issued:	12/21/2009
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	12/22/2009
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	127.00
Paid Penalty:	127.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	127.00
Year:	2009

Violation Number:	8555818
Date Issued:	12/21/2009
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	12/22/2009
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2009

Violation Number:	8607634
Date Issued:	11/07/2011
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	11/08/2011
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2011

ALL AMERICAN AGGREGATES (Continued) **1016468605**

Violation Number: 8607633
Date Issued: 11/07/2011
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 11/07/2011
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 127.00
Paid Penalty: 127.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 127.00
Year: 2011

Violation Number: 8607632
Date Issued: 11/02/2011
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 11/02/2011
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2011

Violation Number: 8607631
Date Issued: 11/02/2011
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 11/07/2011
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2011

Violation Number: 8607630
Date Issued: 11/02/2011
Mine Status: Active
Status Date: 11/12/1975
Action Type: 104(a)
Date Abated: 11/07/2011
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed

ALL AMERICAN AGGREGATES (Continued) **1016468605**

Assessment Amount:	100.00
Year:	2011
Violation Number:	6364326
Date Issued:	09/28/2004
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	03/08/2005
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2004
Violation Number:	6364342
Date Issued:	09/28/2004
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	04/26/2005
Citation/Order:	Citation
Sig and Sub Designation:	Y
Proposed Penalty:	440.00
Paid Penalty:	440.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	440.00
Year:	2004
Violation Number:	6390320
Date Issued:	09/25/2006
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	09/25/2006
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2006
Violation Number:	6390319
Date Issued:	09/25/2006
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	09/25/2006
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00

ALL AMERICAN AGGREGATES (Continued) **1016468605**

Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2006

Violation Number:	6390318
Date Issued:	09/21/2006
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	09/21/2006
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2006

Violation Number:	6390317
Date Issued:	09/21/2006
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	09/25/2006
Citation/Order:	Citation
Sig and Sub Designation:	Y
Proposed Penalty:	838.00
Paid Penalty:	838.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	838.00
Year:	2006

Violation Number:	6390316
Date Issued:	09/21/2006
Mine Status:	Active
Status Date:	11/12/1975
Action Type:	104(a)
Date Abated:	09/25/2006
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2006

ALL AMERICAN AGGREGATES (Continued) **1016468605**

Click this hyperlink while viewing on your computer to access
263 additional US_MINES: record(s) in the EDR Site Report.

G21 **ALL AMERICAN AGGREGATES** **US MINES** **1014678276**
ESE **N/A**
1/8-1/4 **IMPERIAL (County), CA**
0.180 mi.
950 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
675 ft.

US MINES:

Mine ID:	0404113
SIC code(s):	144200 000000 000000 000000 000000 000000
Entity name:	GLAMIS PIT
Company:	ALL AMERICAN AGGREGATES
State FIPS code:	CA
County FIPS code:	IMPERIAL
Status:	4
Status date:	19960409
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	00 00 00
Longitude:	000 00 00

H22 **EDR US Hist Auto Stat** **1015233765**
West **1480 MAGNOLIA AVE** **N/A**
1/8-1/4 **CORONA, CA 92879**
0.180 mi.
952 ft. **Site 1 of 2 in cluster H**

Relative:
Lower

Actual:
648 ft.

EDR Historical Auto Stations:

Name:	S & S AUTOMOTIVE
Year:	2001
Address:	1480 MAGNOLIA AVE
Name:	S & S AUTOMOTIVE
Year:	2002
Address:	1480 MAGNOLIA AVE
Name:	S & S AUTOMOTIVE
Year:	2003
Address:	1480 MAGNOLIA AVE

H23 **ASSOCIATED READY MIXED CONCRETE** **HIST CORTESE** **S102429114**
West **1480 MAGNOLIA** **LUST** **N/A**
1/8-1/4 **CORONA, CA 92879** **EMI**
0.180 mi.
952 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
648 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	083301782T

ASSOCIATED READY MIXED CONCRETE (Continued) **S102429114**

LUST:

Region:	STATE
Global Id:	T0606500229
Latitude:	33.8702037164007
Longitude:	-117.534183970639
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/04/1993
Lead Agency:	RIVERSIDE COUNTY LOP
Case Worker:	SCB
Local Agency:	RIVERSIDE COUNTY LOP
RB Case Number:	083301782T
LOC Case Number:	91108
File Location:	Local Agency Warehouse
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0606500229
Contact Type:	Local Agency Caseworker
Contact Name:	SHARON BOLTINGHOUSE
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	sbolting@rivcocha.org
Phone Number:	9519558980

Global Id:	T0606500229
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0606500229
Status:	Completed - Case Closed
Status Date:	11/04/1993

Global Id:	T0606500229
Status:	Open - Case Begin Date
Status Date:	11/13/1990

Global Id:	T0606500229
Status:	Open - Site Assessment
Status Date:	11/13/1990

Global Id:	T0606500229
Status:	Open - Site Assessment
Status Date:	02/11/1991

ASSOCIATED READY MIXED CONCRETE (Continued) **S102429114**

Regulatory Activities:

Global Id:	T0606500229
Action Type:	Other
Date:	11/13/1990
Action:	Leak Discovery
Global Id:	T0606500229
Action Type:	Other
Date:	02/11/1991
Action:	Leak Reported
Global Id:	T0606500229
Action Type:	Other
Date:	11/13/1990
Action:	Leak Stopped
Global Id:	T0606500229
Action Type:	ENFORCEMENT
Date:	11/04/1993
Action:	Closure/No Further Action Letter - #RCDEH1104
Global Id:	T0606500229
Action Type:	ENFORCEMENT
Date:	11/03/1993
Action:	File review - #RCDEH Upload Site File 10/15/2014

LUST REG 8:

Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083301782T
Local Case Num:	91108
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0606500229
How Stopped Date:	2/13/1991
Enter Date:	3/1/1991
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	2/11/1991
Enforcement Date:	Not reported
Close Date:	11/4/1993
Date Prelim Assessment Workplan Submitted:	2/13/1991
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported

ASSOCIATED READY MIXED CONCRETE (Continued) **S102429114**

Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/1/1991
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8706289
Longitude:	-117.5336368
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:	NOM
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

RIVERSIDE CO. LUST:

Region:	RIVERSIDE
Facility ID:	91108
Employee:	Jones
Site Closed:	Yes
Case Type:	Undefined
Facility Status:	closed/action completed

EMI:

Year:	2008
County Code:	33
Air Basin:	SC
Facility ID:	150822
Air District Name:	SC
SIC Code:	3273
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.037641915
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.9536089478

24
NW
1/8-1/4
0.244 mi.
1286 ft.

1525 E 6TH ST
CORONA, CA 92879

EDR US Hist Auto Stat **1015243299**
N/A

Relative:
Higher

Actual:
667 ft.

EDR Historical Auto Stations:
Name: DAVIS AUTO BODY
Year: 2003
Address: 1525 E 6TH ST

I25
SSW
1/8-1/4
0.248 mi.
1312 ft.

US FOODS
1283 SHERBORN ST 102
CORONA, CA 92879
Site 1 of 3 in cluster I

UST **U004122523**
N/A

Relative:
Lower

Actual:
649 ft.

RIVERSIDE CO. UST:
Region: RIVERSIDE
Total Tanks: 1

I26
SSW
1/8-1/4
0.248 mi.
1312 ft.

CORONA CROSS ROADS
N/A SHERBORN STREET
CORONA, CA
Site 2 of 3 in cluster I

SLIC **S108542939**
N/A

Relative:
Lower

Actual:
649 ft.

SLIC REG 8:
Type: Groundwater
Facility Status: Closed
Staff: MGC
Substance: TCE
Lead Agency: Regional Board
Location Code: Not reported
Thomas Bros Code: Not reported

I27
SSW
1/8-1/4
0.248 mi.
1312 ft.

CORONA CROSS ROADS
N/A SHERBORN STREET
CORONA, CA
Site 3 of 3 in cluster I

SLIC **S104549215**
N/A

Relative:
Lower

Actual:
649 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/12/1999
Global Id: SLT8R1264164
Lead Agency: SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number: Not reported
Latitude: 33.8652842998286
Longitude: -117.53203868866
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: SLT8R126
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water)

CORONA CROSS ROADS (Continued) **S104549215**

Potential Contaminants of Concern: Trichloroethylene (TCE)
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

J28 **CLOW VALVE, INC.** **RCRA-LQG** **1000434760**
WSW **1375 MAGNOLIA AVENUE** **ICIS** **CAD063115133**
1/4-1/2 **CORONA, CA 92879** **FINDS**
0.364 mi. **NPDES**
1922 ft. **Site 1 of 3 in cluster J** **CHMIRS**
EMI
Relative: **ENVIROSTOR**
Lower

Actual: **653 ft.**

RCRA-LQG:

Date form received by agency:	03/01/2008
Facility name:	CLOW VALVE, INC.
Facility address:	1375 MAGNOLIA AVENUE CORONA, CA 92879
EPA ID:	CAD063115133
Contact:	RANDEL M BALLARD
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(951) 735-5555
Telephone ext.:	225
Contact email:	RBALLARD@CLOWVALVE.COM
EPA Region:	09
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CLOW VALVE
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1972
Owner/Op end date:	Not reported
Owner/operator name:	CLOW VALVE COMPANY
Owner/operator address:	Not reported Not reported
Owner/operator country:	US

CLOW VALVE, INC. (Continued) **1000434760**

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1972
Owner/Op end date: Not reported

Owner/operator name: MCWANE, INC.
Owner/operator address: P.O. BOX 43327
BIRMINGHAM, AL 35223
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1985
Owner/Op end date: Not reported

Owner/operator name: MCWANE, INC.
Owner/operator address: 1201 VANDERBILT RD
BIRMINGHAM, AL 35243
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/28/1985
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/01/2006
Site name: CLOW VALLEY COMPANY
Classification: Small Quantity Generator

Date form received by agency: 03/01/2006
Site name: CLOW VALLEY COMPANY
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CLOW CORP
Classification: Small Quantity Generator

CLOW VALVE, INC. (Continued) **1000434760**

Date form received by agency: 08/14/1980
Site name: CLOW CORP
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D008
Waste name: LEAD

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D032
Waste name: HEXACHLOROBENZENE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005

CLOW VALVE, INC. (Continued) **1000434760**

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

ICIS:
Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: RCRAINFO CAD063115133
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: CLOW CORP
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: EIS 740111
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: CLOW VALVE CO
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: FRS 110002464887
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: CLOW VALVE CO
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

CLOW VALVE, INC. (Continued) **1000434760**

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: NEI NEICA0652191
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: Not reported
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: TRIS 91719CLWVL1375M
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: CLOW VALVE CO.
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: EIS 14080811
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: CLOW VALVE COMPANY
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: BR CAD063115133
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002
State: California
Facility Name: CLOW VALVE, INC.
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Enforcement Action ID: 09-2010-5055
FRS ID: 110002464887
Program ID: HWTS-DATAMART CAD063115133
Action Name: MCWANE INC (NATIONAL CASE) (R9 FACILITIES ANACO AND CLOW)
Full Address: 1375 MAGNOLIA AVENUE CORONA CA 92879-5002

CLOW VALVE, INC. (Continued) **1000434760**

State: California
Facility Name: CLOW VALVE CO
Facility Address: 1375 MAGNOLIA AVENUE
CORONA, CA 92879-5002
Enforcement Action Type: Civil Judicial Action
Facility County: RIVERSIDE
EPA Region #: 9

Program ID: BR CAD063115133
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: EIS 14080811
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: EIS 740111
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110002464887
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: HWTS-DATAMART CAD063115133
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: NEI NEICA0652191
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

CLOW VALVE, INC. (Continued) **1000434760**

Program ID: RCRAINFO CAD063115133
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: TRIS 91719CLWVL1375M
Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:

Registry ID: 110058249621

Environmental Interest/Information System
STATE MASTER

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 210754
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 33I007278
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 06/26/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: McWane Inc
Discharge Address: 1375 Magnolia Ave
Discharge City: Corona
Discharge State: California
Discharge Zip: 92879

CHMIRS:
OES Incident Number: ’10-2313
OES notification: 04/12/2010
OES Date: Not reported
OES Time: Not reported
Incident Date: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported

CLOW VALVE, INC. (Continued) **1000434760**

Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA DOT PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	No	
Waterway:	Not reported	
Spill Site:	Industrial Plant	
Cleanup By:	Contractor	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Unknown	
Other:	Not reported	
Date/Time:	100	
Year:	2010	
Agency:	Clow Valve	
Incident Date:	4/9/2010	
Admin Agency:	Corona Fire Department	
Amount:	Not reported	
Contained:	Yes	
Site Type:	Not reported	
E Date:	Not reported	
Substance:	Fire fighting suppression water w/oily waste	
Unknown:	Not reported	
Substance #2:	Not reported	
Substance #3:	Not reported	
Evacuations:	Not reported	
Number of Injuries:	Not reported	
Number of Fatalities:	Not reported	
#1 Pipeline:	Not reported	
#2 Pipeline:	Not reported	
#3 Pipeline:	Not reported	
#1 Vessel >= 300 Tons:	Not reported	
#2 Vessel >= 300 Tons:	Not reported	
#3 Vessel >= 300 Tons:	Not reported	
Evacs:	Not reported	
Injuries:	Not reported	
Fatals:	Not reported	
Comments:	Not reported	
Description:	RP states a fire in small storage area cause the release of various petroleum components to the ground. The release was contained to the	

CLOW VALVE, INC. (Continued) **1000434760**

area and no waterways were affected. Initial clean-up is completed and are waiting for permission to enter the building.

EMI:

Year:	2006
County Code:	33
Air Basin:	SC
Facility ID:	145781
Air District Name:	SC
SIC Code:	3491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.711732693725581080
Reactive Organic Gases Tons/Yr:	1.628
Carbon Monoxide Emissions Tons/Yr:	.109
NOX - Oxides of Nitrogen Tons/Yr:	.405
SOX - Oxides of Sulphur Tons/Yr:	.002
Particulate Matter Tons/Yr:	.098
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.093518

Year:	2007
County Code:	33
Air Basin:	SC
Facility ID:	145781
Air District Name:	SC
SIC Code:	3491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.711732693725581080
Reactive Organic Gases Tons/Yr:	1.628
Carbon Monoxide Emissions Tons/Yr:	.109
NOX - Oxides of Nitrogen Tons/Yr:	.405
SOX - Oxides of Sulphur Tons/Yr:	.002
Particulate Matter Tons/Yr:	.098
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.093518

Year:	2008
County Code:	33
Air Basin:	SC
Facility ID:	145781
Air District Name:	SC
SIC Code:	3491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.196654899811163683
Reactive Organic Gases Tons/Yr:	1.16974793
Carbon Monoxide Emissions Tons/Yr:	.04
NOX - Oxides of Nitrogen Tons/Yr:	.17
SOX - Oxides of Sulphur Tons/Yr:	.000795
Particulate Matter Tons/Yr:	.6224335
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.596737704

ENVIROSTOR:

CLOW VALVE, INC. (Continued) **1000434760**

Facility ID: 71003713
Status: Inactive - Needs Evaluation
Status Date: 11/10/2010
Site Code: 600876
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 5
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 60
Senate: 31
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.86988
Longitude: -117.5377
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD063115133
Alias Type: EPA Identification Number
Alias Name: 110002464887
Alias Type: EPA (FRS #)
Alias Name: 600876
Alias Type: Project Code (Site Code)
Alias Name: 71003713
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Compliance Verification
Completed Date: 12/12/2000
Comments: Inspection report sent on 12/12/2000

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/15/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 10/31/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 10/09/2002

CLOW VALVE, INC. (Continued) **1000434760**

Comments: Inspection report sent on 10/9/2002

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Compliance Verification
Completed Date: 12/12/2000
Comments: Inspection report sent on 12/12/2000

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/05/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/18/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 06/21/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/13/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/31/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 10/31/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/22/2001
Comments: Not reported

Future Area Name: Not reported

CLOW VALVE, INC. (Continued) **1000434760**

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

Facility ID: 33330008
Status: Refer: Other Agency
Status Date: 10/28/1994
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 60
Senate: 31
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.86987
Longitude: -117.5377
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HOUSEHOLD WASTES * Metals - Other Inorganic Solid Waste * AQUEOUS SOLUTION WITH METALS * UNSPECIFIED AQUEOUS SOLUTION * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CLOW COMPANY - CORONA PLANT
Alias Type: Alternate Name
Alias Name: CAD982359820
Alias Type: EPA Identification Number
Alias Name: CAD063115133
Alias Type: HWTS Identification Code
Alias Name: 33330008
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/13/1983
Comments: FACILITY IDENTIFIED ID FROM OLD PHONE BOOK SEARCH -1972 IRON FOUNDRY

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/28/1994
Comments: SITE SCREENING/FILE REVIEW DETERMINE NFA FOR DTSC.

CLOW VALVE, INC. (Continued) **1000434760**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	04/26/1988
Comments:	PRELIM ASSESS DONE SI LOW BASED ON HISTORICAL OPERATIONS & DISPOSAL METHODS

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/24/1987
Comments:	SITE SCREENING DONE PA RECOM BASED ON LACK OF INFO ON EXACT OPERATION AND WASTES PRESENT

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

J29 **SHERBORN MAGNOLIA DRUM SITE** **CERCLIS** **1006371516**
WSW **SHERBORN & MAGNOLIA STREETS** **PRP** **CAN000905946**
1/4-1/2 **CORONA, CA 92879**
0.365 mi.
1926 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
653 ft.

CERCLIS:

Site ID:	0905946
EPA ID:	CAN000905946
Facility County:	RIVERSIDE
Short Name:	SHERBORN MAGNOLIA DRUM SI
Congressional District:	Not reported
IFMS ID:	09JX
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	R
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	12/04/02
Site Fips Code:	06065

SHERBORN MAGNOLIA DRUM SITE (Continued) **1006371516**

CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9000182.00000
Contact Name: DONN ZUROSKI
Contact Tel: (415) 972-2035
Contact Title: On-Scene Coordinator (OSC)
Contact Email: Not reported

Contact ID: 9270647.00000
Contact Name: Janet Yocum
Contact Tel: (415) 972-3053
Contact Title: On-Scene Coordinator (OSC)
Contact Email: Not reported

Contact ID: 13003854.00000
Contact Name: Leslie Ramirez
Contact Tel: (415) 972-3978
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: This is an abandoned drum site.

CERCLIS Assessment History:

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 12/03/02
Date Completed: 12/03/02
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Notice of Intent by All Parties
Date Started: / /
Date Completed: 12/03/02

SHERBORN MAGNOLIA DRUM SITE (Continued) **1006371516**

Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 12/06/02
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 12/11/02
Date Completed: 01/07/03
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

PRP name: W-H TANKLINES

---

30 SSW 1/4-1/2 0.372 mi. 1966 ft.

CITY OF CORONA SITE
1601 SHERBORN RD
CORONA, CA 92879

US BROWNFIELDS **1010340802 N/A**

Relative: Higher

Actual: 673 ft.

US BROWNFIELDS:
Recipient name: R9 TBA (STAG Funded)
Grant type: TBA
Property name: CITY OF CORONA SITE
Property #: 107-070-016, -019, -030, -037, -046, -047, -048
Parcel size: 45
Property Description: Previous uses of the Site include: gravel mining, serving as an inert waste landfill, wood-chipping, and a truck salvage operation.
Latitude: 33.8601641
Longitude: -117.5241607
HCM label: Unknown
Map scale: Not reported
Point of reference: Entrance Point of a Facility or Station
Datum: World Geodetic System of 1984
ACRES property ID: 48321
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported

CITY OF CORONA SITE (Continued) **1010340802**

Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	58893
Assessment funding source:	US EPA - TBA Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	n/a
Ownership entity:	Private
Current owner:	II AVMGH
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported

CITY OF CORONA SITE (Continued) **1010340802**

Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	R9 TBA (STAG Funded)
Grant type:	TBA
Property name:	CITY OF CORONA SITE
Property #:	107-070-016, -019, -030, -037, -046, -047, -048
Parcel size:	45
Property Description:	Previous uses of the Site include: gravel mining, serving as an inert waste landfill, wood-chipping, and a truck salvage operation.
Latitude:	33.8601641

CITY OF CORONA SITE (Continued) **1010340802**

Longitude:	-117.5241607
HCM label:	Unknown
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	48321
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	6000
Assessment funding source:	US EPA - TBA Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	n/a
Ownership entity:	Private
Current owner:	II AVMGH
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported

CITY OF CORONA SITE (Continued) **1010340802**

Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

K31 **SIX PAC RECYCLING CORP** **NPDES** **S105089179**
WNW **1430 E 6TH ST** **SWRCY** **N/A**
1/4-1/2 **CORONA, CA 92879** **PROC**
0.373 mi.
1972 ft. **Site 1 of 2 in cluster K**

Relative:
Lower

Actual:
636 ft.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	298849
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 33I020161
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/29/2006
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/11/2012
Discharge Name:	Six Pac Recycling Corp
Discharge Address:	1430 E 6th St
Discharge City:	Corona
Discharge State:	California
Discharge Zip:	92879

SWRCY:

Reg Id:	27248
Cert Id:	RC2750
Mailing Address:	1430 E 6th St
Mailing City:	Corona
Mailing State:	CA
Mailing Zip Code:	92879
Website:	Not reported
Email:	Not reported
Phone Number:	(951) 734-2910
Grand Father:	N
Rural:	N
Operation Begin Date:	11/02/1988
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 4:30 pm
Tuesday Hours Of Operation:	8:00 am - 4:30 pm
Wednesday Hours Of Operation:	8:00 am - 4:30 pm
Thursday Hours Of Operation:	8:00 am - 4:30 pm
Friday Hours Of Operation:	8:00 am - 4:30 pm
Saturday Hours Of Operation:	8:00 am - 1:00 pm
Sunday Hours Of Operation:	CLOSED
Organization ID:	18821
Organization Name:	Six Pac Recycling Corp

PROC:

Reg Id:	18821
Cert Id:	PR0295

SIX PAC RECYCLING CORP (Continued) **S105089179**

Organization Id:	18821
Organization Name:	Six Pac Recycling Corp
Mailing Address:	1430 E 6th St
Mailing City:	Corona
Mailing State:	CA
Mailing Zip Code:	92879
Website:	Not reported
Email:	Not reported
Phone Number:	(951) 734-2910
Grand Father:	N/A
Rural:	N/A
Operation Begin Date:	03/31/1999
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	N
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 4:30 pm
Tuesday Hours Of Operation:	8:00 am - 4:30 pm
Wednesday Hours Of Operation:	8:00 am - 4:30 pm
Thursday Hours Of Operation:	8:00 am - 4:30 pm
Friday Hours Of Operation:	8:00 am - 4:30 pm
Saturday Hours Of Operation:	8:00 am - 1:30 pm
Sunday Hours Of Operation:	CLOSED

J32 **PUBLIC WORKS TRANSFER STATION** **SWF/LF** **S110731412**
WSW **1330 MAGNOLIA AVE.** **N/A**
1/4-1/2 **CORONA, CA**
0.374 mi.
1975 ft. **Site 3 of 3 in cluster J**

Relative:
Lower

Actual:
654 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	33-AA-0323
Lat/Long:	33.8671399 / -117.53848
Owner Name:	City of Corona
Owner Telephone:	9517362301
Owner Address:	Not reported
Owner Address2:	400 South Vicentia Ave.
Owner City,St,Zip:	Corona, CA 92882
Operational Status:	Active
Operator:	City of Corona Public Works Department
Operator Phone:	9517362301
Operator Address:	Not reported
Operator Address2:	735 Corporation Yard Way
Operator City,St,Zip:	Corona, CA 92880
Permit Date:	04/01/2013
Permit Status:	Notification
Permitted Acreage:	1.2
Activity:	Limited Volume Transfer Operation
Regulation Status:	Notification
Landuse Name:	Residential,Industrial
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	02
Inspection Frequency:	Quarterly
Accepted Waste:	Mixed municipal
Closure Date:	Not reported

PUBLIC WORKS TRANSFER STATION (Continued) **S110731412**

Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 33-AA-0323
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 60
Actual Throughput with Units: Cu Yards/day
Permitted Capacity with Units: 15600
Remaining Capacity: Not reported
Remaining Capacity with Units: Cu Yards/year
Lat/Long: 33.8671399 / -117.53848

K33 **SIX PAC INDUSTRIES INC** **LUST** **S101590110**
WNW **1428 E SIXTH ST** **CA FID UST** **N/A**
1/4-1/2 **CORONA, CA 91720** **SWEEPS UST**
0.380 mi.
2005 ft. **Site 2 of 2 in cluster K**

Relative:
Lower

Actual:
636 ft.

RIVERSIDE CO. LUST:
Region: RIVERSIDE
Facility ID: 92142
Employee: Thompson
Site Closed: Yes
Case Type: Soil only
Facility Status: closed/action completed

CA FID UST:
Facility ID: 33004398
Regulated By: UTNKA
Regulated ID: 00005836
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7147378232
Mail To: Not reported
Mailing Address: 1428 E SIXTH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CORONA 91720
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Active
Comp Number: 5836
Number: 1
Board Of Equalization: 44-017901
Referral Date: 11-19-92
Action Date: 11-19-92
Created Date: 02-29-88
Owner Tank Id: 000977
SWRCB Tank Id: 33-000-005836-000001
Tank Status: A
Capacity: 10000

SIX PAC INDUSTRIES INC (Continued) **S101590110**

Active Date:	06-21-90
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	2
Status:	Active
Comp Number:	5836
Number:	1
Board Of Equalization:	44-017901
Referral Date:	11-19-92
Action Date:	11-19-92
Created Date:	02-29-88
Owner Tank Id:	000977
SWRCB Tank Id:	33-000-005836-000002
Tank Status:	A
Capacity:	2000
Active Date:	11-19-92
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

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34 **MOBIL STATION** **HIST CORTESE** **S102433749**
NE **13653 MAGNOLIA ST** **LUST** **N/A**
1/4-1/2 **CORONA, CA 91719**
0.444 mi.
2344 ft.

Relative:
Higher

Actual:
667 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	083302608T

LUST:

Region:	STATE
Global Id:	T0606500412
Latitude:	33.8766866612148
Longitude:	-117.523890137672
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/18/2010
Lead Agency:	RIVERSIDE COUNTY LOP
Case Worker:	AB
Local Agency:	RIVERSIDE COUNTY LOP
RB Case Number:	083302608T
LOC Case Number:	941068
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Site History/Release Information: The site is currently a vacant lot. A Mobil branded service station operated at the site for over 20 years and was decommissioned in 1994. The UST system was removed in November 1994 and not replaced. Five USTs, product dispensers and associated product lines were removed in November 1994. Fourteen (14) soil samples were collected after tank removal under dispensers and

MOBIL STATION (Continued) **S102433749**

in excavation area. Analytical results of soil sampling indicated elevated hydrocarbon concentrations beneath the former 5000 gallon USTs. Maximum concentrations detected were: 12000 ppm TPHg (#3 South Tank 5000), 1800 ppb B (#2 North Tank 5000), 700000 ppb T (#6 South Tank 5000), 300000 ppb E (#6 South Tank 5000), 1900000 ppb X (#6 South Tank 5000), ND< 5 ppm lead. The site was placed into LOP on December 6, 1994, for further assessment. Assessment: In January 1996, five soil borings (B1 through B5) were advanced to approximately 39 feet bgs. Analytical results from the soil samples (35 samples) indicated elevated concentrations in all borings to 40 ft bgs. Maximum soil concentrations detected were: 21229 ppm TPHg (B4@25ft), 388 ppm B (B4@25ft), 1591 ppm T (B4@25ft), 386 ppm E (B4@25ft), 1434 ppm X (B4@25ft). In June 1997, three groundwater monitoring wells (MW1, MW2, and MW-3) were installed through existing boreholes at the site. The groundwater flow direction and gradient was calculated to be to the west-southwest with a downgradient slope of 0.005 ft/ft. TPHg concentrations ranged from 738 ppb to 8814 ppb. Benzene concentrations ranged from 131 ppb to 816 ppb. Toluene concentrations ranged from 92 ppb to 638 ppb. Ethylbenzene concentrations ranged from 3.0 ppb to 102 ppb. Xylene concentrations ranged from 84 ppb to 855 ppb. MTBE was not detected in any of the groundwater samples. Depth to groundwater ranged from 36.44 ft to 37.44 ft bgs. In October 1997, 10 soil borings were advanced. A total of 68 Soil samples were collected from nine borings and groundwater samples were collected from six borings. Three borings were completed as vapor monitoring piezometers that were utilized in a vapor extraction pilot study performed on well MW3 and showed a radius of influence of 28 feet. Two vapor samples were collected, one at the start of the test and at the end of the test (after 227 minutes). Vapor concentrations for TPH at the beginning of the test were 22386 ppmV and 15360 ppmV at the end of the test. Vapor concentrations for benzene at the beginning of the test were 1893 ppmV and 1362 ppmV at the end of the test. The vapor samples were not analyzed for MTBE. Maximum groundwater concentrations detected were: 16346 ppb TPHg (GP3), 98 ppb B (GP6), 16 ppb T (GP1), 34 ppb E (GP3), 67 ppb X (GP3), 20 ppb MTBE (GP6). Maximum soil concentrations detected were: 74891 ppm TPHg (GP9-30A), 2909 ppm B (GP9-30A), 4229 ppm T (GP9-30A), 1087 ppm E (GP9-30A), 3545 ppm X (GP9-30A), ND<0.1 ppm MTBE. Impacted soil appears to be in the zone of soils between 15 ft bgs to groundwater (40 ft bgs) where the tanks and dispenser were located. The vapor test indicated that soil vapor extraction will reduce gasoline impacts in the soil. In May 2001, two offsite groundwater monitoring wells were installed to delineate the soil and groundwater. Groundwater monitoring well (MW9) was installed downgradient and monitoring well (MW10) was installed upgradient. The wells were installed to approximately 50 ft bgs and screened between 20 and 50 ft bgs. Groundwater was encountered at 35 ft bgs. Groundwater and soil samples for both wells were ND for all constituents tested (full scan). Feasibility Testing In April 1998, four dual purpose vapor extraction/groundwater monitoring wells (MW4 through MW7) and eight air sparging wells (SW1 through SW8). The air sparging wells were completed to 55-57 ft bgs and screened only along the bottom 5 ft. The vapor wells were completed to 55 ft bgs and screened fromtotal depth to 10 ft bgs. The highest concentrations of TPH in soil were found between 20 and 35 ft bgs in wells MW4 (7300 ppm@30ft) and MW5 (3900 ppm@20ft). The maximum benzene concentration in soil was 100 pm in MW4@30ft and the maximum MTBE concentration was

MOBIL STATION (Continued) **S102433749**

0.037 ppm in SW8@30 ft bgs. Groundwater samples were collected from all seven groundwater monitoring wells. Maximum groundwater concentrations were 140 ppb TPH (MW5), 17000 ppb B (MW4), 26000 ppb T (MW4), 480 ppb E (MW5), 19000 ppb X (MW5), 400 ppb MTBE (MW5). The results of the air sparging pilot study, that was performed for eight hours using well SW4, suggest that air sparging will be effective in treating groundwater beneath the site. The extent of gasoline impacted soil appears to be limited to the former tank pit and both pump island area. The groundwater requires further assessment cross-gradient to the north and down-gradient to the west. In-situ Soil Remediation/Verification: SVE was conducted from January 1999 September 2001. Soil vapor extraction started in January 1999. Results of vapor sampling indicated significant fluctuations in the inlet concentrations over the first year of operations. The maximum inlet TPHg concentration was 5200 ppmV in December 1999. By the last operational period the inlet levels had been reduced to 89 ppmV in September 2001. The fixed system removed 39267 lbs of hydrocarbon from January 1999 until the system was shut down on September 2001. In September 2002, four confirmation borings were drilled to 50 ft bgs. Results indicated high TPHg concentrations in soil samples collected between 15 and 30 ft bgs. These results indicated that the remediation system was not entirely effective and additional treatment is necessary. Three of the borings were completed as vapor wells (VW1, VW2, and VW3) and were installed to 30 ft bgs and screened from 15 to 30 feet bgs to access the shallow contaminant zone. Results of soil testing indicated each boring had detectable concentrations of TPHg in soil with up to 6600 ppm found in VW2 at 25 feet bgs. Sample VW2-30 had 6200 ppm TPHg but deeper samples had only 4.2 ppm TPHg or less. Well VW3 had high TPHg concentrations at 25 and 30 feet with 2500 and 2400 ppm, respectively. Well VW1 had up to 1300 ppm TPHg at 15 feet bgs and 190 ppm at 25 feet bgs. None of the soil samples had detectable levels of benzene. Other VOCs detected. On January 23, 2004, vapor wells VW1 and VW3 were purged for six hours and sampled to determine if additional remediation is required. Laboratory analysis of vapor samples indicated TPHg concentrations up to 2950 ppmV in well VW1 and 430 ppmV in well VW3. Benzene and MTBE were not detected above laboratory reporting limits. On June 9-10, 2004, a 16 hour vapor extraction test was performed using wells VW1 and VW3. Maximum TPHg concentrations of 110 ppmV in VW1 and 360 ppmV in well VW3 at the end of the test. Benzene and MTBE were not detected above laboratory reporting limits. A total of 7 lbs of hydrocarbons was removed during testing. Air Sparge Air sparging was conducted from May 2000 January 2000. On August 1999, the air sparge system was tested for a short period of time. Results indicated a significant rise in the concentration of removed soil gas vapors indicating a strong response to sparging. The equipment was started on May 2000. Air was injected into wells SW2, SW4, and SW1. Air sparging was terminated in January 2000, since there was no increase in the influent concentration of the air stream. This is attributed to the five feet decline of the water table exposing more of the contaminated soil beneath the water table to the vapor extraction. Groundwater Monitoring: In September 1998, results from groundwater sampling indicated wells MW6 and MW7 had the highest benzene concentrations with 16000 ppb and 11000 ppb, respectively. The maximum concentration of MTBE was detected in MW2 at 8900 ppb. Based on these results an additional groundwater monitoring well (MW8) was installed downgradient of and MW7 to define the extent of dissolved

MOBIL STATION (Continued) **S102433749**

hydrocarbons. Groundwater monitoring was conducted on a quarterly basis between 1998 and 2004. A groundwater monitoring event had not been conducted since 2004 and was recently sampled on March 31, 2010. Free product was detected periodically between March1999 and December 1999 in monitoring wells MW4, MW5 and MW6 at thickness of up to 2.06 feet. An air pump was used to inject ambient air directly into the wells to strip gasoline in these wells. This procedure was terminated on May 10, 2000, as air sparging was initiated. TPHg has not been detected above laboratory reporting limits in any of the groundwater samples collected since September 2002. Benzene has been ND since September 2003 and MTBE has been ND since July 2000. No petroleum hydrocarbon constituents were detected during the June 9, 2004, sampling event. Groundwater verification On March 31, 2010, six wells (MW1 through MW5, and MW9) were sampled. Results for all six groundwater samples were ND for all constituents tested (8260 full scan run). RCDEH requested well destructions by 7/30/2010. As per the SWRCB's directive to close the site regardless of non-compliance with well destructions, a site closure letter dated 8/18/10 was prepared. A cover letter was attached to the closure letter requiring documentation of well destructions by 11/30/2010. Monitoring wells MW-1,2,3,4,5,6,7,8,9 were properly abandoned July 2011. MW-10 was unable to be located and was not properly abandoned. Also, air sparge wells SW1 through SW8 were unable to be located and were not properly abandoned. 1/29/2013 Riv Co DEH sent NFA letter with mention of air sparge wells not destroyed. If found in the future, they shall be properly abandoned.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0606500412
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:	rscott@waterboards.ca.gov
Phone Number:	9513206375

Global Id:	T0606500412
Contact Type:	Local Agency Caseworker
Contact Name:	ANDREA BRIONES
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	abriones@rivcocha.org
Phone Number:	9519558982

Status History:

Global Id:	T0606500412
Status:	Open - Site Assessment
Status Date:	10/25/1994

Global Id:	T0606500412
Status:	Open - Site Assessment
Status Date:	12/05/1994

MOBIL STATION (Continued) **S102433749**

Global Id: T0606500412
Status: Completed - Case Closed
Status Date: 08/18/2010

Global Id: T0606500412
Status: Open - Remediation
Status Date: 09/07/1999

Global Id: T0606500412
Status: Open - Case Begin Date
Status Date: 10/25/1994

Regulatory Activities:

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 08/17/2010
Action: File review - #RCDEH Upload Site File 2/9/2011

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 08/18/2010
Action: Closure/No Further Action Letter - #RCDEH Closure

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 08/17/2009
Action: Staff Letter - #RCDEH081709

Global Id: T0606500412
Action Type: RESPONSE
Date: 07/28/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 01/29/2013
Action: Closure/No Further Action Letter - #RCDEH01292013

Global Id: T0606500412
Action Type: Other
Date: 10/25/1994
Action: Leak Discovery

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 02/28/2008
Action: Technical Correspondence / Assistance / Other - #RCDEH 022808

Global Id: T0606500412
Action Type: Other
Date: 12/06/1994
Action: Leak Reported

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 08/18/2010
Action: Staff Letter - #RCDEH 081810

MOBIL STATION (Continued) **S102433749**

Global Id: T0606500412
Action Type: RESPONSE
Date: 01/18/2008
Action: Electronic Reporting Submittal Due

Global Id: T0606500412
Action Type: RESPONSE
Date: 07/30/2010
Action: Well Destruction Report

Global Id: T0606500412
Action Type: RESPONSE
Date: 03/06/2009
Action: Other Report / Document

Global Id: T0606500412
Action Type: REMEDIATION
Date: 09/07/1999
Action: Soil Vapor Extraction (SVE)

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 01/21/2009
Action: Staff Letter - #RCDEH012109

Global Id: T0606500412
Action Type: RESPONSE
Date: 11/30/2010
Action: Well Destruction Report

Global Id: T0606500412
Action Type: Other
Date: 10/25/1994
Action: Leak Stopped

Global Id: T0606500412
Action Type: RESPONSE
Date: 04/10/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0606500412
Action Type: RESPONSE
Date: 02/17/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 05/25/2010
Action: Staff Letter - #RCDEH052510

Global Id: T0606500412
Action Type: ENFORCEMENT
Date: 11/29/2007
Action: Staff Letter

Global Id: T0606500412
Action Type: ENFORCEMENT

MOBIL STATION (Continued) **S102433749**

Date:	09/20/2007
Action:	File review
Global Id:	T0606500412
Action Type:	ENFORCEMENT
Date:	04/14/2010
Action:	Staff Letter - #RCDEH041410

LUST REG 8:

Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Preliminary site assessment underway
Case Number:	083302608T
Local Case Num:	941068
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	BYRON
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Tank
Global ID:	T0606500412
How Stopped Date:	10/25/1994
Enter Date:	2/3/1995
Date Confirmation of Leak Began:	12/5/1994
Date Preliminary Assessment Began:	12/1/1995
Discover Date:	10/25/1994
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	9/29/1995
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:	2/3/1995
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8765428
Longitude:	-117.5238066
MTBE Date:	1/1/1965
Max MTBE GW:	8900
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	A
Staff:	RS

MOBIL STATION (Continued) **S102433749**

Staff Initials: Not reported
Lead Agency: Local Agency
Local Agency: 33000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

RIVERSIDE CO. LUST:
Region: RIVERSIDE
Facility ID: 941068
Employee: Reyes-LOP
Site Closed: Yes
Case Type: Drinking Water Aquifer affected
Facility Status: closed/action completed

35
NNW
1/2-1
0.522 mi.
2757 ft.

Relative:
Higher

Actual:
678 ft.

PALOS VERDES BUILDING CORP **RCRA-LQG** **1000596037**
1675 SAMPSON AVE **FINDS** **CAD983599960**
CORONA, CA 92879 **NPDES**
CHMIRS
ENVIROSTOR
US AIRS
HWT

RCRA-LQG:
Date form received by agency: 02/21/2013
Facility name: PALOS VERDES BLDG. CORP DBA:US BATTERY MFG. CO.
Facility address: 1675 SAMPSON AVE
CORONA, CA 92879
EPA ID: CAD983599960
Mailing address: SAMPSON AVE
CORONA, CA 92879
Contact: JERRY BAILEY
Contact address: SAMPSON AVE
CORONA, CA 92879
Contact country: Not reported
Contact telephone: (951) 371-8090
Telephone ext.: 121
Contact email: JBAILEY@USBATTERY.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Owner/Operator Summary:
Owner/operator name: JOHN E ANDERSON
Owner/operator address: SAMPSON AVE
CORONA, CA 92879
Owner/operator country: Not reported
Owner/operator telephone: (951) 371-8090
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/01/1991
Owner/Op end date: Not reported

Owner/operator name: RON ANDERSON
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/01/1991
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: Yes
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/24/2010
Site name: PALOS VERDES BUILDING CORP
Classification: Large Quantity Generator

Date form received by agency: 04/25/2008
Site name: PALOS VERDES BUILDING CORP
Classification: Large Quantity Generator

Date form received by agency: 01/20/2006
Site name: U.S. BATTERY MFG. CO.
Classification: Large Quantity Generator

Date form received by agency: 02/13/2004
Site name: PALOS VERDES BLDG CORP
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Site name: US BATTERY MFG CO
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: U.S. BATTERY MFG. CO.
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: U.S. BATTERY MFG. CO.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: PALOS VERDES BUILDING CORP
Classification: Large Quantity Generator

Date form received by agency: 12/29/1995
Site name: U.S. BATTERY MFG. CO.
Classification: Large Quantity Generator

Date form received by agency: 03/02/1994
Site name: US BATTERY MFG CO
Classification: Large Quantity Generator

Date form received by agency: 09/06/1991
Site name: PALOS VERDES BUILDING CORP
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Waste code: D008
Waste name: LEAD

Waste code: D008
Waste name: LEAD

Waste code: 181
Waste name: 181

Waste code: D008
Waste name: LEAD

Waste code: D008
Waste name: LEAD

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/22/2005
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/27/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/09/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/17/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/22/2005
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110055690774

Environmental Interest/Information System
STATE MASTER

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 210755
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 33I007289
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 07/13/1993
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: John E Anderson
Discharge Address: 1675 Sampson Ave
Discharge City: Corona
Discharge State: California

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Discharge Zip: 92879

CHMIRS:

OES Incident Number:	'10-1731	
OES notification:	03/12/2010	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA DOT PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	No	
Waterway:	Not reported	
Spill Site:	Other	
Cleanup By:	Contractor	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Gal(s)	
Other:	Not reported	
Date/Time:	823	
Year:	2010	
Agency:	Corona Fire Dept.	
Incident Date:	3/11/2010	
Admin Agency:	Corona Fire Department	
Amount:	Not reported	
Contained:	Yes	
Site Type:	Not reported	
E Date:	Not reported	
Substance:	Sulfuric Acid 95 %	
Quantity Released:	300	
Unknown:	Not reported	
Substance #2:	Not reported	
Substance #3:	Not reported	
Evacuations:	Not reported	

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A delivery truck was off-loading to a storage tank and hose broke causing the spill on to an asphalt parking lot.

OES Incident Number:	'10-1705
OES notification:	03/11/2010
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported

More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported

Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	850
Year:	2010
Agency:	Spill Center Inc

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Incident Date:	3/11/2010
Admin Agency:	Corona Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	sulfuric acid
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP States: While off-loading the acid there was a problem with one of the unloading hoses and the release was the result.

ENVIROSTOR:

Facility ID:	71003132
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	60
Senate:	31
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.87962
Longitude:	-117.5347
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD983599960
Alias Type:	EPA Identification Number
Alias Name:	110000862371
Alias Type:	EPA (FRS #)

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Alias Name: 71003132
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

AIRS (AFS):

Airs Minor Details:
EPA plant ID: 110014324114
Plant name: U.S. BATTERY MFG. CO.
Plant address: 1675 SAMPSON AVENUE
CORONA, CA 92879
County: RIVERSIDE
Region code: 09
Dunn & Bradst #: Not reported
Air quality cntrl region: 024
Sic code: 3692
Sic code desc: PRIMARY BATTERIES, DRY AND WET
North Am. industrial classf: 335911
NAIC code description: Storage Battery Manufacturing
Default compliance status: IN COMPLIANCE - INSPECTION
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Compliance and Enforcement Major Issues:
Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Penalty amount: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1403
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1401
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1304
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1402
Air prog code hist file: MACT (SECTION 63 NESHAPS)

Compliance & Violation Data by Minor Sources:

Air program code: NESHAP
Plant air program pollutant: PARTICULATE MATTER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION

PALOS VERDES BUILDING CORP (Continued) **1000596037**

Def. attainment/non attnmnt: ALL OTHER NON-ATTAINMENT FOR PRIMARY AND SECONDARY STANDARDS
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: LEAD
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

HWT:
Reg Num: 2186
Expiration Date: 04/30/2015

36
NE
1/2-1
0.580 mi.
3062 ft.

Relative: Higher

Actual: 671 ft.

HOME GARDENS ELEMENTARY SCHOOL **SCH S109446157**
13550 TOLTON AVENUE **NPDES N/A**
CORONA, CA 92503 **ENVIROSTOR**

SCH:

Facility ID: 60000836
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7.65
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404772
Assembly: 60
Senate: 31
Special Program Status: Not reported
Status: Certified
Status Date: 06/08/2011
Restricted Use: NO
Funding: School District
Latitude: 33.87629
Longitude: -117.5203
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS, SCHOOL - ELEMENTARY
Potential COC: Chlordane, Aldrin, Dieldrin, Heptachlor
Confirmed COC: Chlordane, Dieldrin, Aldrin, Heptachlor
Potential Description: SOIL
Alias Name: 404772
Alias Type: Project Code (Site Code)
Alias Name: 60000836
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE

HOME GARDENS ELEMENTARY SCHOOL (Continued) **S109446157**

Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/13/2008
Comments: DTSC determined that a Preliminary Environmental Assessment is required based on the Phase I report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/15/2009
Comments: DTSC concurs that further action is required for Management Areas B and C.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/28/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/22/2009
Comments: DTSC approved the RAW for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 02/02/2009
Comments: DTSC concurs with TM provided that District addresses comments enclosed with TM Approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 02/17/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 03/16/2009
Comments: DTSC concurred with the proposed field work outlined in the TM for Management Area B, via e-mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 02/24/2009
Comments: Approval of SFPD Form 4.15, Commitment to Complete Further Investigation and/or Response Actions Prior to Occupancy issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/23/2010
Comments: DTSC issued a No Further Action determination.

HOME GARDENS ELEMENTARY SCHOOL (Continued) **S109446157**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/08/2011
Comments: DTSC prpared a project close out cost recovery unit memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/13/2008
Comments: Signed agreement sent FedEx to District (signature date of 05/13/2008-delayed mailing because District did not provide Site Location Map and Site Diagram Map with agreement, as had been requested).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 02/23/2009
Comments: Signed agreement sent (FedEx) to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/22/2009
Comments: Finalized and signed NOE after RAW public comment period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/08/2011
Comments: DTSC Certifies that all Removal Action Activities have been completed with confirmatory sampling meeting cleanup goals.

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

NPDES:
Npdes Number: CAS000002
Facility Status: Terminated
Agency Id: 0
Region: 8
Regulatory Measure Id: 415976
Order No: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 33C361570
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 08/01/2011

HOME GARDENS ELEMENTARY SCHOOL (Continued) **S109446157**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	02/22/2012
Discharge Name:	Corona Norco Unified School District
Discharge Address:	2820 Clark Ave
Discharge City:	Corona
Discharge State:	California
Discharge Zip:	92860
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	333484
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 33C349368
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/17/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	02/22/2012
Discharge Name:	Corona Norco Unified School District
Discharge Address:	2820 Clark Aveune
Discharge City:	Norco
Discharge State:	California
Discharge Zip:	92860

ENVIROSTOR:

Facility ID:	60000836
Status:	Certified
Status Date:	06/08/2011
Site Code:	404772
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	7.65
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	60
Senate:	31
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.87629
Longitude:	-117.5203
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS, SCHOOL - ELEMENTARY
Potential COC:	Chlordane Aldrin Dieldrin Heptachlor
Confirmed COC:	Chlordane Dieldrin Aldrin Heptachlor
Potential Description:	SOIL
Alias Name:	404772
Alias Type:	Project Code (Site Code)

HOME GARDENS ELEMENTARY SCHOOL (Continued) **S109446157**

Alias Name: 60000836
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/13/2008
Comments: DTSC determined that a Preliminary Environmental Assessment is required based on the Phase I report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/15/2009
Comments: DTSC concurs that further action is required for Management Areas B and C.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/28/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/22/2009
Comments: DTSC approved the RAW for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 02/02/2009
Comments: DTSC concurs with TM provided that District addresses comments enclosed with TM Approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 02/17/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 03/16/2009
Comments: DTSC concurred with the proposed field work outlined in the TM for Management Area B, via e-mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 02/24/2009
Comments: Approval of SFPD Form 4.15, Commitment to Complete Further Investigation and/or Response Actions Prior to Occupancy issued.

Completed Area Name: PROJECT WIDE

HOME GARDENS ELEMENTARY SCHOOL (Continued) **S109446157**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/23/2010
Comments: DTSC issued a No Further Action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/08/2011
Comments: DTSC prpared a project close out cost recovery unit memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/13/2008
Comments: Signed agreement sent FedEx to District (signature date of 05/13/2008-delayed mailing because District did not provide Site Location Map and Site Diagram Map with agreement, as had been requested).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 02/23/2009
Comments: Signed agreement sent (FedEx) to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/22/2009
Comments: Finalized and signed NOE after RAW public comment period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/08/2011
Comments: DTSC Certifies that all Removal Action Activities have been completed with confirmatory sampling meeting cleanup goals.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

37
NE
1/2-1
0.598 mi.
3155 ft.

SMOG CHECK CORONA
13537 MAGNOLIA
CORONA, CA 91719

HIST CORTESE
LUST
Notify 65

S100179038
N/A

Relative:
Higher

Actual:
668 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	083301194T

LUST:

Region:	STATE
Global Id:	T0606500118
Latitude:	33.878003
Longitude:	-117.521755
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/22/2006
Lead Agency:	RIVERSIDE COUNTY LOP
Case Worker:	SCB
Local Agency:	RIVERSIDE COUNTY LOP
RB Case Number:	083301194T
LOC Case Number:	89331
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0606500118
Contact Type:	Local Agency Caseworker
Contact Name:	SHARON BOLTINGHOUSE
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	sbolting@rivcocha.org
Phone Number:	9519558980

Global Id:	T0606500118
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0606500118
Status:	Open - Site Assessment
Status Date:	03/12/1996

Global Id:	T0606500118
Status:	Open - Case Begin Date
Status Date:	03/27/1989

SMOG CHECK CORONA (Continued) **S100179038**

Global Id: T0606500118
Status: Completed - Case Closed
Status Date: 05/22/2006

Global Id: T0606500118
Status: Open - Remediation
Status Date: 03/03/1997

Global Id: T0606500118
Status: Open - Remediation
Status Date: 06/01/1999

Global Id: T0606500118
Status: Open - Verification Monitoring
Status Date: 06/29/1998

Global Id: T0606500118
Status: Open - Site Assessment
Status Date: 04/11/1989

Global Id: T0606500118
Status: Open - Site Assessment
Status Date: 07/24/1989

Regulatory Activities:
Global Id: T0606500118
Action Type: ENFORCEMENT
Date: 05/21/2006
Action: File review - #RCDEH Upload Site File 10/21/2010

Global Id: T0606500118
Action Type: Other
Date: 03/27/1989
Action: Leak Discovery

Global Id: T0606500118
Action Type: Other
Date: 04/11/1989
Action: Leak Reported

Global Id: T0606500118
Action Type: Other
Date: 03/27/1989
Action: Leak Stopped

Global Id: T0606500118
Action Type: ENFORCEMENT
Date: 01/24/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0606500118
Action Type: ENFORCEMENT
Date: 05/22/2006
Action: Closure/No Further Action Letter

SMOG CHECK CORONA (Continued) **S100179038**

LUST REG 8:

Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083301194T
Local Case Num:	89331
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	DAVIDSON
Enf Type:	None Taken
Funding:	State Funds
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Corrosion
Leak Source:	Tank
Global ID:	T0606500118
How Stopped Date:	3/27/1989
Enter Date:	9/4/1989
Date Confirmation of Leak Began:	4/11/1989
Date Preliminary Assessment Began:	7/24/1989
Discover Date:	3/27/1989
Enforcement Date:	1/1/1965
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	3/12/1996
Date Remediation Plan Submitted:	3/3/1997
Date Remedial Action Underway:	6/1/1999
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/4/1989
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	33.8778118
Longitude:	-117.5215646
MTBE Date:	4/20/1999
Max MTBE GW:	331
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	A
Staff:	NOM
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

SMOG CHECK CORONA (Continued) **S100179038**

Summary: SOIL REM. ACT. RPT. DATE 6/1/99

RIVERSIDE CO. LUST:
Region: RIVERSIDE
Facility ID: 89331
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Drinking Water Aquifer affected
Facility Status: closed/action completed

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 91719-2033

38
NNE
1/2-1
0.602 mi.
3176 ft.

GLENN A. SINGER, INC. **ENVIROSTOR** **S104576936**
1865 SAMPSON AVE **N/A**
CORONA, CA 92879

Relative:
Higher

Actual:
664 ft.

ENVIROSTOR:
Facility ID: 71003811
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 60
Senate: 31
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.88022
Longitude: -117.5278
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000294296
Alias Type: EPA Identification Number
Alias Name: 71003811
Alias Type: Envirostor ID Number

Completed Info:

GLENN A. SINGER, INC. (Continued) **S104576936**

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

39
NW
1/2-1
0.743 mi.
3923 ft.

ALUMINUM & MAGNESIUM INC. DIVISION OF VULCAN MATERIALS **ENVIROSTOR** **S107735831**
1300 W. SAMPSON **N/A**
CORONA, CA 92879

Relative:
Lower

Actual:
631 ft.

ENVIROSTOR:

Facility ID:	60000220
Status:	Inactive - Needs Evaluation
Status Date:	01/14/2008
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Greg Holmes
Division Branch:	Cleanup Cypress
Assembly:	60
Senate:	31
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.8785
Longitude:	-117.5418
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	110025212491
Alias Type:	EPA (FRS #)
Alias Name:	60000220
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening

ALUMINUM & MAGNESIUM INC. DIVISION OF VULCAN MATERIALS (Continued) **S107735831**

Completed Date:	06/13/2006
Comments:	Site Screening approved by EPA.
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 WNW 1/2-1 0.769 mi. 4062 ft. **IMCO WASTE DISPOSAL AREA (FORMER)** **LUST S109286190**
1462 QUARRY STREET **LDS N/A**
CORONA, CA 92879 **DEED**
VCP
ENVIROSTOR

Relative: Lower

Actual: 623 ft.

LUST:

Region:	STATE
Global Id:	T0606500188
Latitude:	33.8776467
Longitude:	-117.5411512
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/14/1998
Lead Agency:	RIVERSIDE COUNTY LOP
Case Worker:	UNK
Local Agency:	RIVERSIDE COUNTY LOP
RB Case Number:	083301552T
LOC Case Number:	90489
File Location:	Local Agency Warehouse
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0606500188
Contact Type:	Regional Board Caseworker
Contact Name:	TOM E. MBEKE-EKANEM
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	tmbeke-ekanem@waterboards.ca.gov
Phone Number:	9513202007

Global Id:	T0606500188
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	Not reported
Phone Number:	Not reported

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Status History:

Global Id:	T0606500188
Status:	Open - Remediation
Status Date:	02/25/1991
Global Id:	T0606500188
Status:	Completed - Case Closed
Status Date:	09/14/1998
Global Id:	T0606500188
Status:	Open - Case Begin Date
Status Date:	05/14/1990
Global Id:	T0606500188
Status:	Open - Site Assessment
Status Date:	06/05/1990
Global Id:	T0606500188
Status:	Open - Site Assessment
Status Date:	06/07/1990
Global Id:	T0606500188
Status:	Open - Site Assessment
Status Date:	10/04/1990

Regulatory Activities:

Global Id:	T0606500188
Action Type:	Other
Date:	05/14/1990
Action:	Leak Discovery
Global Id:	T0606500188
Action Type:	ENFORCEMENT
Date:	09/13/1998
Action:	File review - #RCDEH Upload Site File 11/17/2010
Global Id:	T0606500188
Action Type:	Other
Date:	06/05/1990
Action:	Leak Reported
Global Id:	T0606500188
Action Type:	ENFORCEMENT
Date:	09/14/1998
Action:	Closure/No Further Action Letter - #Riv Co Closure
Global Id:	T0606500188
Action Type:	Other
Date:	05/14/1990
Action:	Leak Stopped

RIVERSIDE CO. LUST:

Region:	RIVERSIDE
Facility ID:	90489
Employee:	Malloy

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Site Closed: Yes
Case Type: Drinking Water Aquifer affected
Facility Status: closed/action completed

LDS:

Global Id: L10003130170
Latitude: 33.86823
Longitude: -117.5384
Case Type: Land Disposal Site
Status: Completed - Case Closed
Status Date: 11/04/2009
Lead Agency: SANTA ANA RWQCB (REGION 8)
Caseworker: KDP
Local Agency: Not reported
RB Case Number: 8 330323001
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Not reported
EDR Link ID: L10003130170
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Global Id: L10005490322
Latitude: 33.86823
Longitude: -117.5384
Case Type: Land Disposal Site
Status: Open - Closed/with Monitoring
Status Date: 11/01/2014
Lead Agency: SANTA ANA RWQCB (REGION 8)
Caseworker: KDP
Local Agency: Not reported
RB Case Number: 8 330305003
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Not reported
EDR Link ID: L10005490322
Potential Contaminants of Concern: Not reported
Site History: SITE HISTORY The Corona Sanitary Landfill is located in the central portion of the South West 1/4 of Section 32 of Township 3 South and Range 6 West, San Bernardino Baseline and Meridian. The site is directly southeast of Magnolia Avenue and northeast of the Interstate 15 freeway, in the city of Corona, California. The Riverside County Waste Management Department (Department) and the City of Corona own the site. The city operated the site for a short time and then the Department took over operation of the landfill. The 80-acre site was in operation between 1951 and 1986. The total amount of refuse placed at the site was approximately 3,200,000 tons. The Department records show that septic ponds were located in the southeast corner of the property south of the natural channel. The ponds accepted septic waste and egg washings. In 1985, the site operators removed the sludge using scrapers from the site and moved the material to the active landfill. The ponds were excavated until virgin material was

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

reached. In 1987, a contractor was hired to fill in the holes created by excavating the ponds with clean fill dirt. From March 1988 to October 1990, the Department performed closure activities at the landfill site. Closure activities included the placement of four feet of additional cover soil, installation of drainage structures, fencing, seeding and the associated required testing. In 1991, two partially buried diesel tanks (a 1,000-gallon tank and a 3,000-gallon tank), located in the north corner of the property, were removed in accordance with Riverside County Department of Environmental Health requirements. Soil samples were collected and analyzed after the tanks were removed. It was determined that there was no threat to groundwater and no further investigation would be necessary. HYDROLOGY The landfill surface conditions and drainage controls have been inspected in accordance with the requirements of Monitoring and Program Order No. 98-99-02. All surface drainage structures are designed to withstand a 100-year storm. All drainage channels have been routinely cleared of growth and debris during this reporting period. Tumbleweeds, windblown grasses and weeds were cleared from all drainage structures and mowing of the landfill surface was completed during this reporting period. Copies of the monthly site inspection logs are located in Appendix K. WASTE PLACEMENT This landfill is inactive and does not accept any solid waste. Acceptance of refuse was halted on August 4, 1986.

Click here to access the California GeoTracker records for this facility:

DEED:

Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	01/16/2009
EDR Link ID:	33500001

VCP:

Facility ID:	33500001
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3.9
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Daniel Zogaib
Supervisor:	Emad Yemut
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	401700
Assembly:	60
Senate:	31
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	06/21/2010

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	33.87536 / -117.5402
APN:	115-200-002
Past Use:	LANDFILL - DOMESTIC, METAL RECLAMATION, RECYCLING - SCRAP METAL
Potential COC:	30001, 30013, 30018, 30152, 30153, 30156
Confirmed COC:	30001,30013,30152,30153,30156,30018
Potential Description:	SOIL
Alias Name:	Aluminum & Magnesium, Inc Division of Vulcan Materials
Alias Type:	Alternate Name
Alias Name:	115-200-002
Alias Type:	APN
Alias Name:	110033615087
Alias Type:	EPA (FRS #)
Alias Name:	401281
Alias Type:	Project Code (Site Code)
Alias Name:	401700
Alias Type:	Project Code (Site Code)
Alias Name:	33500001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	09/26/2013
Comments:	All remedial actions have been adequately completed and the Site can be certified with Land Use Restriction. Annual inspections will be required for this property to fulfill requirements in the Land Use Restriction Document.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/30/2009
Comments:	Cost Estimate letter sent to proponent via U.S. Mail and email

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/30/2013
Comments:	2014 Annual cost estimate letter and schedule sent to RP for the IMCO Waste Disposal Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Payment Agreement
Completed Date:	06/21/2013
Comments:	Payment Agreement signed by DTSC as of 6/21/2013 and sent via email to RP on 6/24/2013. Agreement will be also mailed by US Mail. A copy of the Agreement has also been forwarded to DTSCs Accounting Dept. for their records.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	12/08/2008
Comments:	NOE completed and signed. Sent to CEQA Department to file with Office

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

of Planning and Research/State Clearinghouse.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 01/16/2009
Comments: LUC signed and sent back to Property Owner to record with County of Riverside.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/04/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 12/12/2008
Comments: Final RAW approved. Fieldwork to implement remedy will take place once sale of property is complete. New property owner will implement remedy.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 05/16/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/03/2008
Comments: During the 4/15/2008 meeting with DTSC and West Environmental, it was determined that characterization was adequate for the site, given the end use. Project will move to the Removal Action Workplan (RAW) phase of the project and all necessary site activities will be addressed in the RAW. A note to file will be added since no official comment letter was submitted regarding this matter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/24/2008
Comments: Fact sheet finalized and sent for mailing to mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/12/2008
Comments: Site Management Plan approved. Approval letter sent 12/12/2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/15/2012
Comments: Document accepted. Once grading permit has been obtained by the City

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

of Corona - or any other necessary permits - grading activities can begin.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/25/2013
Comments: Document received and reviewed by DTSC. No comments were made and therefore the RACR was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/13/2006
Comments: Site Screening Assessment Report was submitted to EPA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/01/2007
Comments: Conditional Approval Letter was issued 10/1/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/11/2012
Comments: Annual Inspection Report for FY 2011-2012 submitted for review by property owner and approved by DTSC. Site continues to meet requirements set forth in the LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/13/2014
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/29/2011
Comments: 2012 Annual Cost Estimate letter sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/02/2010
Comments: Land Use Restriction Inspection conducted by property owner (dated 5/18/2010). Inspection report received at DTSC on 6/2/2010 and accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/03/2014
Comments: Completed

Completed Area Name: PROJECT WIDE

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2010
Comments: 2011 Cost Estimate and Schedule sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/09/2014
Comments: Cost estimate letter mailed to RP on 09/10/14.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/12/2005
Comments: DTSC entered into a Voluntary Cleanup Agreement (VCA) with the Proponent, 6th and Radio Road Business Park II, LLC (Docket No. HSA-A 04/05-161) for DTSC to conduct an evaluation of reports and data provided by the Proponent and to provide oversight for the removal action for the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/25/2012
Comments: 2013 Annual Cost Estimate letter sent to RP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/30/2012
Comments: Reminder sent regarding unpaid past due invoices.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/21/2007
Comments: 2008 Annual Cost Estimate Letter sent to Proponent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/31/2012
Comments: Second Collection Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/23/2011
Comments: Report received by DTSC. There is no violation of the Land Use Restriction. The next inspection report will be due by June 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/21/2010
Comments: Site certified with Operation and Maintenance. Letter and

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Certification package sent to Responsible Party.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2018
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:
Facility ID: 33500001
Status: Certified O&M - Land Use Restrictions Only
Status Date: 06/21/2010
Site Code: 401700
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 3.9
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Daniel Zogaib
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 60
Senate: 31
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.87536
Longitude: -117.5402
APN: 115-200-002
Past Use: LANDFILL - DOMESTIC, METAL RECLAMATION, RECYCLING - SCRAP METAL
Potential COC: Arsenic Lead Polychlorinated biphenyls (PCBs Chromium III Chromium VI Copper and compounds
Confirmed COC: Arsenic Lead Chromium III Chromium VI Copper and compounds Polychlorinated biphenyls (PCBs
Potential Description: SOIL
Alias Name: Aluminum & Magnesium, Inc Division of Vulcan Materials
Alias Type: Alternate Name
Alias Name: 115-200-002
Alias Type: APN
Alias Name: 110033615087
Alias Type: EPA (FRS #)
Alias Name: 401281
Alias Type: Project Code (Site Code)
Alias Name: 401700
Alias Type: Project Code (Site Code)
Alias Name: 33500001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Completed Document Type: Certification
Completed Date: 09/26/2013
Comments: All remedial actions have been adequately completed and the Site can be certified with Land Use Restriction. Annual inspections will be required for this property to fulfill requirements in the Land Use Restriction Document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2009
Comments: Cost Estimate letter sent to proponent via U.S. Mail and email

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2013
Comments: 2014 Annual cost estimate letter and schedule sent to RP for the IMCO Waste Disposal Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Payment Agreement
Completed Date: 06/21/2013
Comments: Payment Agreement signed by DTSC as of 6/21/2013 and sent via email to RP on 6/24/2013. Agreement will be also mailed by US Mail. A copy of the Agreement has also been forwarded to DTSCs Accounting Dept. for their records.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 12/08/2008
Comments: NOE completed and signed. Sent to CEQA Department to file with Office of Planning and Research/State Clearinghouse.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 01/16/2009
Comments: LUC signed and sent back to Property Owner to record with County of Riverside.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/04/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 12/12/2008
Comments: Final RAW approved. Fieldwork to implement remedy will take place once sale of property is complete. New property owner will implement remedy.

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 05/16/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/03/2008
Comments: During the 4/15/2008 meeting with DTSC and West Environmental, it was determined that characterization was adequate for the site, given the end use. Project will move to the Removal Action Workplan (RAW) phase of the project and all necessary site activities will be addressed in the RAW. A note to file will be added since no official comment letter was submitted regarding this matter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/24/2008
Comments: Fact sheet finalized and sent for mailing to mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/12/2008
Comments: Site Management Plan approved. Approval letter sent 12/12/2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/15/2012
Comments: Document accepted. Once grading permit has been obtained by the City of Corona - or any other necessary permits - grading activities can begin.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/25/2013
Comments: Document received and reviewed by DTSC. No comments were made and therefore the RACR was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/13/2006
Comments: Site Screening Assessment Report was submitted to EPA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/01/2007
Comments: Conditional Approval Letter was issued 10/1/07.

Completed Area Name: PROJECT WIDE

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/11/2012
Comments: Annual Inspection Report for FY 2011-2012 submitted for review by property owner and approved by DTSC. Site continues to meet requirements set forth in the LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/13/2014
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/29/2011
Comments: 2012 Annual Cost Estimate letter sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/02/2010
Comments: Land Use Restriction Inspection conducted by property owner (dated 5/18/2010). Inspection report received at DTSC on 6/2/2010 and accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/03/2014
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2010
Comments: 2011 Cost Estimate and Schedule sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/09/2014
Comments: Cost estimate letter mailed to RP on 09/10/14.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/12/2005
Comments: DTSC entered into a Voluntary Cleanup Agreement (VCA) with the Proponent, 6th and Radio Road Business Park II, LLC (Docket No. HSA-A 04/05-161) for DTSC to conduct an evaluation of reports and data provided by the Proponent and to provide oversight for the removal action for the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

IMCO WASTE DISPOSAL AREA (FORMER) (Continued) **S109286190**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/25/2012
Comments: 2013 Annual Cost Estimate letter sent to RP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/30/2012
Comments: Reminder sent regarding unpaid past due invoices.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/21/2007
Comments: 2008 Annual Cost Estimate Letter sent to Proponent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/31/2012
Comments: Second Collection Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/23/2011
Comments: Report received by DTSC. There is no violation of the Land Use Restriction. The next inspection report will be due by June 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/21/2010
Comments: Site certified with Operation and Maintenance. Letter and Certification package sent to Responsible Party.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2018
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

41
West
1/2-1
0.786 mi.
4148 ft.

H & E ENGINEERING **ENVIROSTOR** **1000112568**
958 EL SOBRANTE RD. **N/A**
CORONA, CA 91720

Relative:
Lower

Actual:
633 ft.

ENVIROSTOR:
Facility ID: 33340011
Status: Refer: Other Agency
Status Date: 10/25/1994
Site Code: Not reported
Site Type: Historical

H & E ENGINEERING (Continued) **1000112568**

Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 60
Senate: 31
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.87080
Longitude: -117.5460
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Metals - Other Inorganic Solid Waste * AQUEOUS SOLUTION WITH METALS * DETERGENT & SOAP * UNSPECIFIED ACID SOLUTION * WASTE OIL & MIXED OIL * AQUEOUS SOLUTION 2<PH<12.5, WITH REACTIVE ANIONS * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE Chromium VI
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: HERMAN ENGINEERING & MFG (DMI FILE)
Alias Type: Alternate Name
Alias Name: CAD980892541
Alias Type: EPA Identification Number
Alias Name: CAC000169005
Alias Type: HWTS Identification Code
Alias Name: 33340011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/22/1983
Comments: FACILITY IDENTIFIED ID FROM RWQCB COMPLAINTS/SPILLS 1982 PERSON REPORTING-RAY HOPPER,A FRIEND WHO WORKS AT H&E ENGINEERING TOLD RAY THAT H&E DISP OF POISONOUS CHEM INTO THEIR SEPTIC TANK. SEPTIC TANK HAS APPARENTLY BEEN CORRODED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/25/1994
Comments: Site screening/file review determine NFA for DTSC.

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: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CORONA	S116381386	CT CORONA	1451 MAGNOLIA AVE X E 6TH ST	92879	SLIC

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

Federal NPL site list

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: 09/29/2014
Date Data Arrived at EDR: 10/08/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 40

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/08/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 40

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

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: 09/29/2014
Date Data Arrived at EDR: 10/08/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 40

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Quarterly

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: 07/21/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

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: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/03/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/03/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Varies

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: 08/29/2014
Date Data Arrived at EDR: 10/09/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 11

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
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: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

State- and tribal - equivalent NPL

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: 11/03/2014
Date Data Arrived at EDR: 11/04/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/04/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

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: 11/03/2014
Date Data Arrived at EDR: 11/04/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/04/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

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: 11/17/2014
Date Data Arrived at EDR: 11/19/2014
Date Made Active in Reports: 12/24/2014
Number of Days to Update: 35

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/19/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: Varies

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: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 12/12/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 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 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 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 REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

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

SLIC: Statewide SLIC Cases

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: 12/12/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
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: Quarterly

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: Semi-Annually

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: Varies

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: Semi-Annually

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: Semi-Annually

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: Semi-Annually

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: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 73

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/09/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 11/04/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 10

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/22/2014
Date Data Arrived at EDR: 08/22/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 27

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 10/06/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 19

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/31/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Semi-Annually

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: 11/03/2014
Date Data Arrived at EDR: 11/05/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 12
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/17/2014
Date Data Arrived at EDR: 09/17/2014
Date Made Active in Reports: 10/24/2014
Number of Days to Update: 37
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
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: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/23/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 66
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 08/14/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 11/04/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 10

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 08/20/2014
Date Data Arrived at EDR: 08/22/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 27

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 10/06/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 8

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Semi-Annually

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: 11/03/2014
Date Data Arrived at EDR: 11/05/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 12

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Semi-Annually

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/31/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

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: 04/20/2009
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: 11/03/2014
Date Data Arrived at EDR: 11/04/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/04/2014
Next Scheduled EDR Contact: 02/16/2015
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: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/31/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/22/2014
Date Data Arrived at EDR: 09/23/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 10/24/2014
Next Scheduled EDR Contact: 02/09/2015
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

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/16/2014
Date Data Arrived at EDR: 09/17/2014
Date Made Active in Reports: 10/23/2014
Number of Days to Update: 36
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 09/08/2014
Date Data Arrived at EDR: 09/09/2014
Date Made Active in Reports: 10/22/2014
Number of Days to Update: 43
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/12/2014
Next Scheduled EDR Contact: 03/02/2015
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: 10/29/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Varies

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: 11/05/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

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: 07/25/2014
Date Data Arrived at EDR: 09/09/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 41

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/25/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Quarterly

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: 11/03/2014
Date Data Arrived at EDR: 11/04/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/04/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Quarterly

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

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: 06/30/2014
Date Data Arrived at EDR: 09/02/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 22

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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: 07/25/2014
Date Data Arrived at EDR: 09/09/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 41

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/25/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 12/24/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Annually

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

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

Local Land Records

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: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 10/02/2014
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 11/20/2014
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

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: 09/08/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/22/2014
Number of Days to Update: 42

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/09/2014
Next Scheduled EDR Contact: 03/23/2015
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: 09/30/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

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: 10/27/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 12/10/2014
Number of Days to Update: 42

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/29/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/12/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 21

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/12/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
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

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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/04/2014
Next Scheduled EDR Contact: 02/16/2015
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: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

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: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

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: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/24/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Annually

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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

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: 08/05/2014
Date Data Arrived at EDR: 09/04/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 74

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/30/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Annually

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Every 4 Years

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: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Quarterly

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: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
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

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: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 07/31/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/15/2014
Next Scheduled EDR Contact: 01/26/2015
Data Release Frequency: Annually

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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/04/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Quarterly

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: 10/07/2014
Date Data Arrived at EDR: 10/08/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
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: 08/16/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/09/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Quarterly

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

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: 08/01/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Biennially

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

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/17/2014
Date Data Arrived at EDR: 11/19/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 40

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/19/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Quarterly

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/14/2014
Date Data Arrived at EDR: 09/17/2014
Date Made Active in Reports: 10/23/2014
Number of Days to Update: 36
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 50
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
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

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: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/18/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: No Update Planned

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: 06/28/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 08/21/2014
Number of Days to Update: 49
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Annually

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: 12/23/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/10/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 30

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 02/09/2015
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.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/15/2014
Next Scheduled EDR Contact: 01/26/2015
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/24/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Varies

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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/18/2014
Next Scheduled EDR Contact: 02/02/2015
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: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: N/A

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: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/23/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

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: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/23/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

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: 09/04/2014
Date Data Arrived at EDR: 09/04/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/11/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Quarterly

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: 11/17/2014
Date Data Arrived at EDR: 11/18/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 41

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Varies

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: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/14/2014
Next Scheduled EDR Contact: 02/23/2015
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

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Varies

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: 11/14/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/16/2014
Date Data Arrived at EDR: 09/17/2014
Date Made Active in Reports: 10/23/2014
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/30/2014
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/25/2014
Next Scheduled EDR Contact: 03/09/2015
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: 10/14/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/13/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Quarterly

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

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: 08/20/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/23/2014
Number of Days to Update: 43
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/09/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/28/2014
Date Data Arrived at EDR: 10/30/2014
Date Made Active in Reports: 12/10/2014
Number of Days to Update: 41
Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/23/2015
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/31/2014
Next Scheduled EDR Contact: 02/09/2015
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 US Hist Auto Stat: EDR Exclusive Historic Gas 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 US Hist Cleaners: EDR Exclusive Historic Dry 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:

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: 10/21/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 35

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/21/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 38

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 09/08/2014
Date Data Arrived at EDR: 09/09/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 15

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 11/20/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/07/2015
Number of Days to Update: 44

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/06/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 43

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2014
Date Data Arrived at EDR: 11/19/2014
Date Made Active in Reports: 01/06/2015
Number of Days to Update: 48

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/03/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 11/04/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 38

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 11/03/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/19/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 38

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/03/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Varies

FRESNO COUNTY:

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: 09/30/2014
Date Data Arrived at EDR: 10/14/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 36

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 09/10/2014
Date Data Arrived at EDR: 09/11/2014
Date Made Active in Reports: 09/25/2014
Number of Days to Update: 14

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 11/04/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 38

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/22/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/19/2014
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/05/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 11/21/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/30/2014
Number of Days to Update: 35

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 10/20/2014
Date Data Arrived at EDR: 10/21/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 76

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/20/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/18/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/17/2014
Number of Days to Update: 41

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/20/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/22/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/17/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/07/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/25/2014
Number of Days to Update: 28

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/17/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/20/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/20/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/13/2014
Date Data Arrived at EDR: 03/27/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 10/02/2014
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 11/20/2014
Number of Days to Update: 48

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 33

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 09/02/2014
Date Data Arrived at EDR: 09/05/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 19

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 28

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/25/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/25/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 09/16/2014
Date Data Arrived at EDR: 09/18/2014
Date Made Active in Reports: 09/25/2014
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 30

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 30

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/10/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/10/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/22/2014
Date Data Arrived at EDR: 09/23/2014
Date Made Active in Reports: 11/21/2014
Number of Days to Update: 59
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/10/2014
Date Made Active in Reports: 11/20/2014
Number of Days to Update: 41
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/10/2014
Date Made Active in Reports: 11/25/2014
Number of Days to Update: 46
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/06/2014
Date Data Arrived at EDR: 04/08/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 21
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

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: 10/21/2014
Date Data Arrived at EDR: 10/28/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 48
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

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: 08/06/2014
Date Data Arrived at EDR: 08/07/2014
Date Made Active in Reports: 09/30/2014
Number of Days to Update: 54

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/10/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 38

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

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: 12/04/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 11/05/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/05/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/20/2014
Date Data Arrived at EDR: 06/23/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 18
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/21/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 12/30/2014
Number of Days to Update: 36
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/06/2014
Date Data Arrived at EDR: 10/10/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 40
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/15/2014
Date Data Arrived at EDR: 09/16/2014
Date Made Active in Reports: 10/22/2014
Number of Days to Update: 36
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/11/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

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: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 12/30/2014
Number of Days to Update: 34

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

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

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: 11/25/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/10/2014
Date Data Arrived at EDR: 11/10/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 35

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 02/23/2015
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/31/2014
Number of Days to Update: 36

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 09/16/2014
Date Data Arrived at EDR: 09/18/2014
Date Made Active in Reports: 10/22/2014
Number of Days to Update: 34

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/17/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 42

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/11/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/26/2014
Date Made Active in Reports: 07/25/2014
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/11/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 10/02/2014
Date Made Active in Reports: 11/20/2014
Number of Days to Update: 49

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2014
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 11/20/2014
Number of Days to Update: 48

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/08/2014
Date Data Arrived at EDR: 09/09/2014
Date Made Active in Reports: 10/24/2014
Number of Days to Update: 45

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 10/28/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 44

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

VENTURA COUNTY:

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: 10/29/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Quarterly

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: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Annually

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: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Quarterly

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: 09/26/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 12/12/2014
Number of Days to Update: 44

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/26/2014
Date Data Arrived at EDR: 09/17/2014
Date Made Active in Reports: 10/28/2014
Number of Days to Update: 41

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/25/2014
Number of Days to Update: 56

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/18/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/17/2014
Date Data Arrived at EDR: 11/18/2014
Date Made Active in Reports: 12/30/2014
Number of Days to Update: 42

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 02/16/2015
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
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: 11/01/2014
Date Data Arrived at EDR: 11/05/2014
Date Made Active in Reports: 11/24/2014
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/05/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/20/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/26/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 08/07/2014
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CIRCLE CITY SUBSTATION
MAGNOLIA AVENUE
CORONA, CA 92879

TARGET PROPERTY COORDINATES

Latitude (North):	33.8707 - 33° 52' 14.52''
Longitude (West):	117.5296 - 117° 31' 46.56''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	451017.2
UTM Y (Meters):	3747751.8
Elevation:	659 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33117-G5 CORONA SOUTH, CA
Most Recent Revision:	1988
North Map:	33117-H5 CORONA NORTH, CA
Most Recent Revision:	1981

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 principal 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).

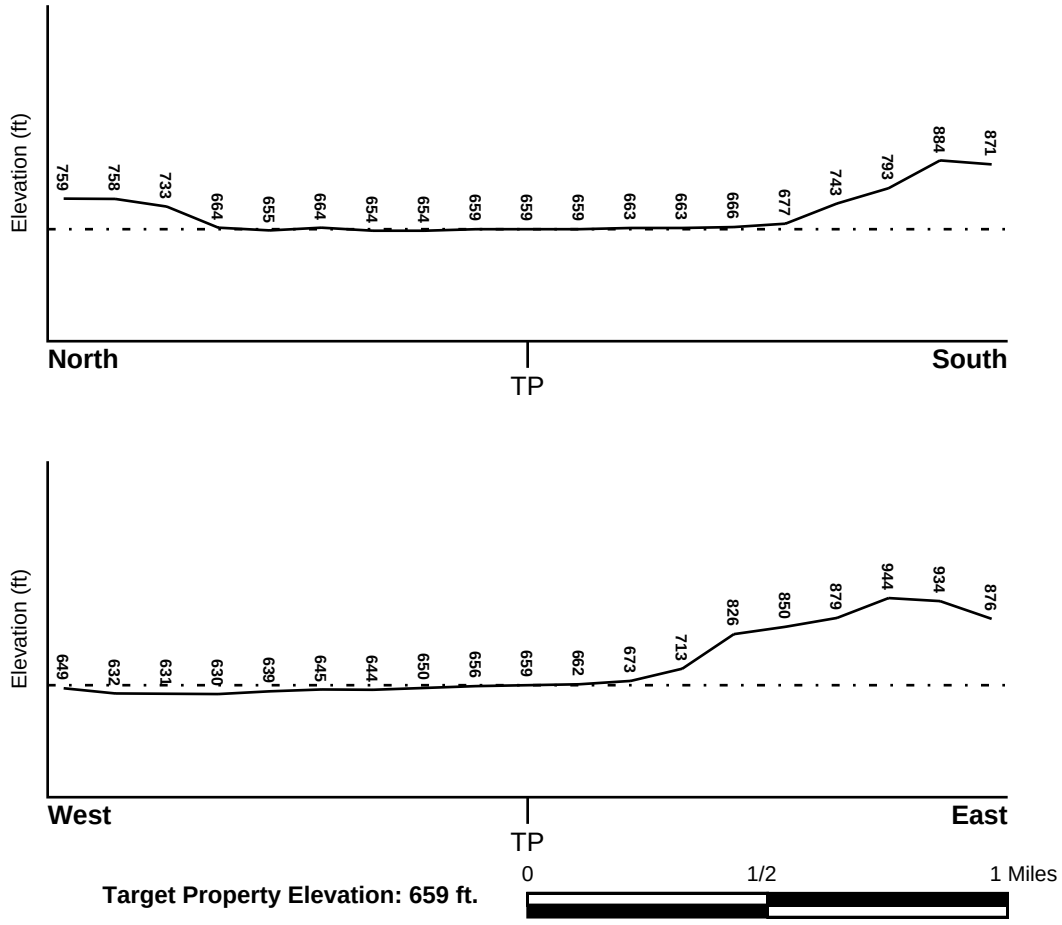
TOPOGRAPHIC INFORMATION

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 WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

Target Property County	FEMA Flood Electronic Data
RIVERSIDE, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06065C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

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
14	1/2 - 1 Mile WSW	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

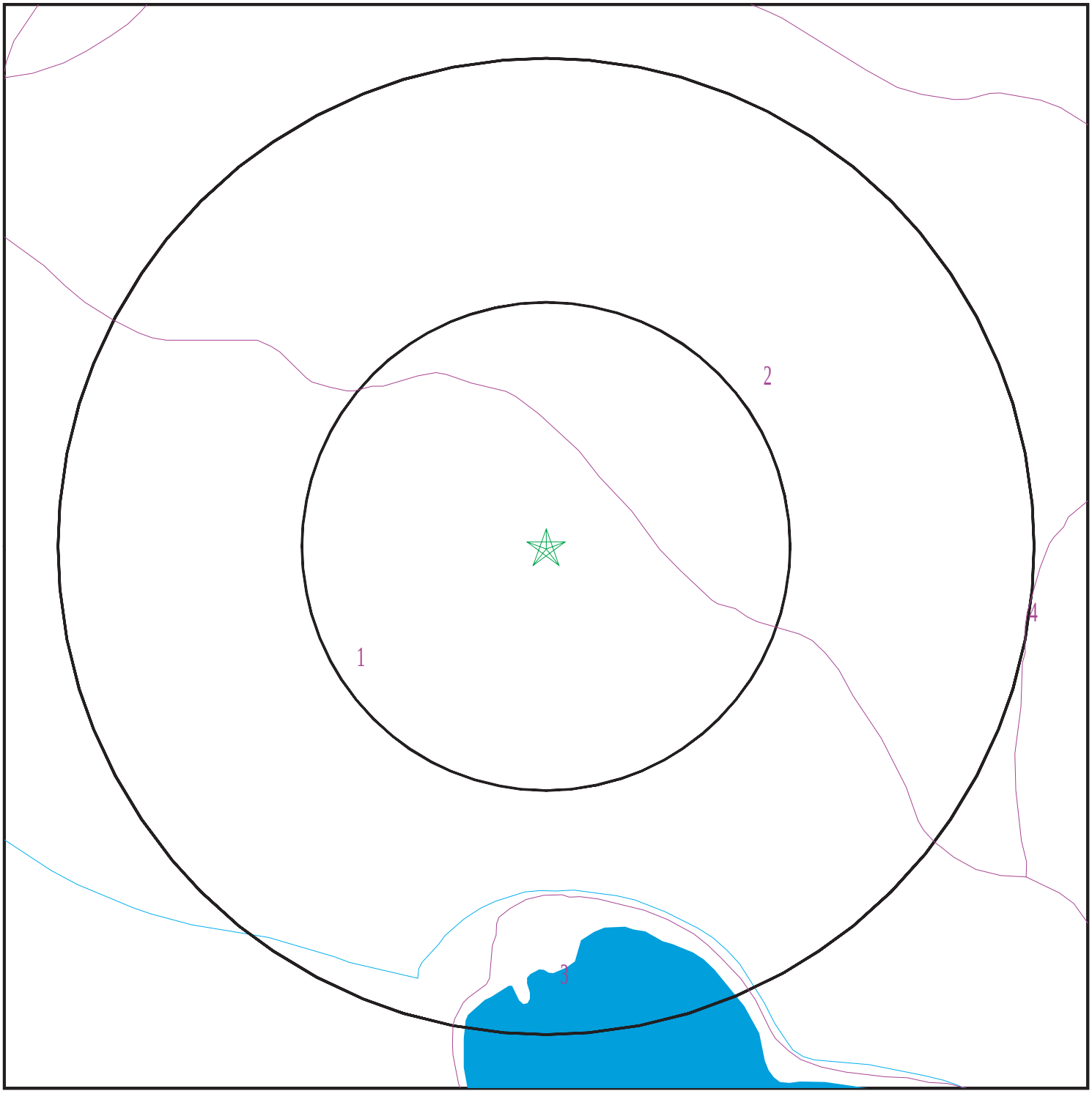
Era:	Mesozoic
System:	Cretaceous
Series:	Cretaceous granitic rocks
Code:	Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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 - 4184596.2s



SITE NAME:	Circle City Substation	CLIENT:	Southern California Edison
ADDRESS:	Magnolia Avenue Corona CA 92879	CONTACT:	Violet Flores
LAT/LONG:	33.8707 / 117.5296	INQUIRY #:	4184596.2s
		DATE:	January 16, 2015 8:16 pm

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: CORTINA

Soil Surface Texture: gravelly sandy loam

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: Partially hydric

Corrosion Potential - Uncoated Steel: Low

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	22 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 8.4 Min: 5.6
2	22 inches	38 inches	stratified very gravelly loamy sand to very gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 8.4 Min: 5.6
3	38 inches	59 inches	stratified very gravelly sand to very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 8.4 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: CORTINA

Soil Surface Texture: sandy loam

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: Low

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	22 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 5.6
2	22 inches	38 inches	stratified very gravelly loamy sand to very gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 8.4 Min: 5.6
3	38 inches	59 inches	stratified very gravelly sand to very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 8.4 Min: 5.6

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: HANFORD

Soil Surface Texture: coarse 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

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

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	7 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy 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: 141 Min: 42	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
A2	USGS40000138697	1/4 - 1/2 Mile East
A3	USGS40000138692	1/4 - 1/2 Mile East
4	USGS40000138680	1/2 - 1 Mile WSW
C11	USGS40000138696	1/2 - 1 Mile East
C12	USGS40000138691	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

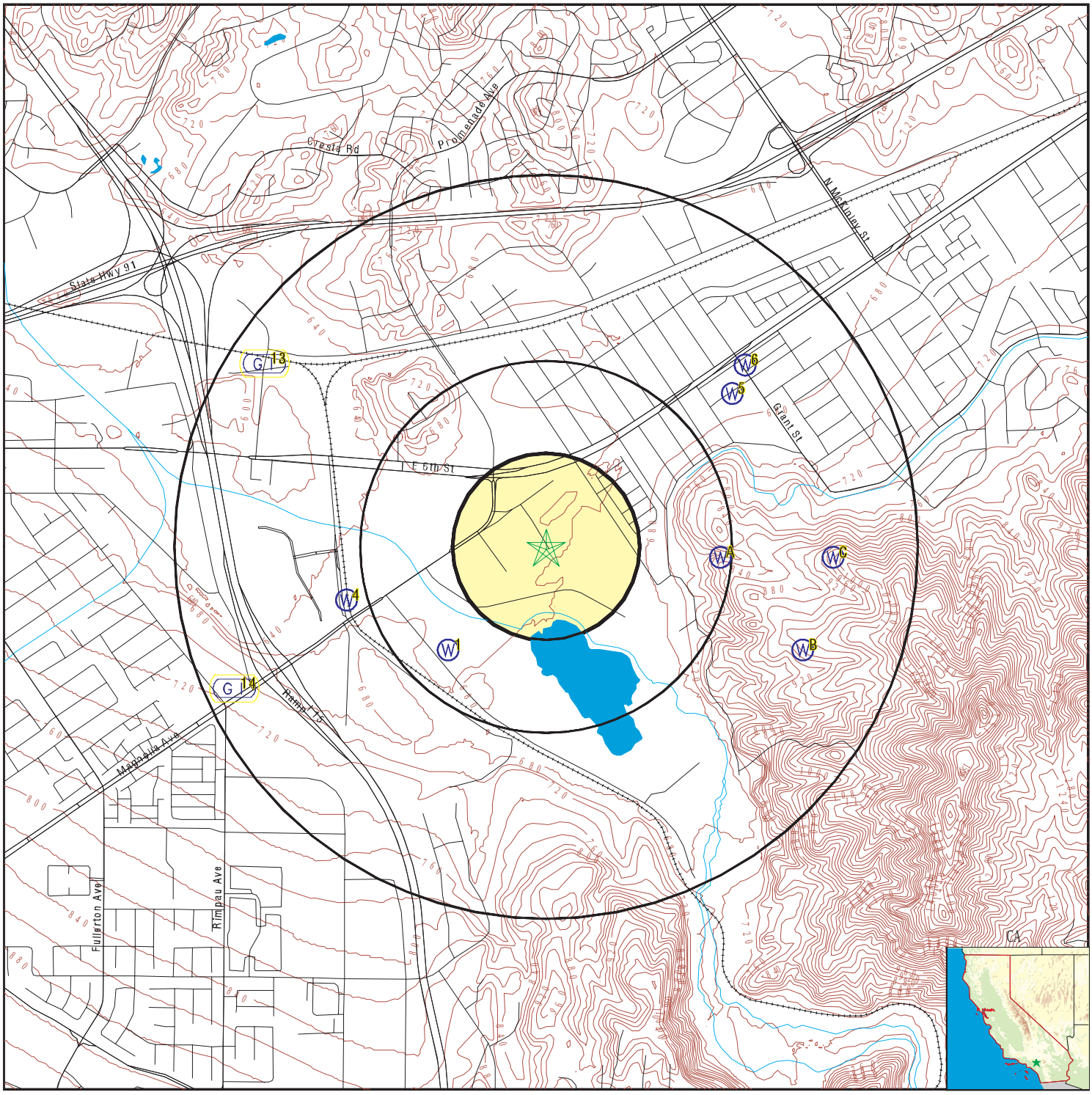
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	3591	1/4 - 1/2 Mile SW
5	3590	1/2 - 1 Mile NE
6	3589	1/2 - 1 Mile NE
B7	3588	1/2 - 1 Mile ESE
B8	3587	1/2 - 1 Mile ESE
B9	3585	1/2 - 1 Mile ESE
B10	3586	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 4184596.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Circle City Substation	CLIENT:	Southern California Edison
ADDRESS:	Magnolia Avenue Corona CA 92879	CONTACT:	Violet Flores
		INQUIRY #:	4184596.2s
LAT/LONG:	33.8707 / 117.5296	DATE:	January 16, 2015 8:16 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SW
1/4 - 1/2 Mile
Lower

CA WELLS **3591**

Water System Information:

Prime Station Code:	03S/06W-29Q02 S	User ID:	WAT
FRDS Number:	3310037005	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	335200.0 1173200.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	WELL 05 - DESTROYED		
System Number:	3310037		
System Name:	Corona, City of		
Organization That Operates System:			
	P.O. Box 940		
	Corona, CA 91718		
Pop Served:	104000	Connections:	25321
Area Served:	CORONA AND VICINITY		

A2
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000138697**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335214117311501		
Monloc name:	003S006W28M003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.8705715
Longitude:	-117.5217148	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	179
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A3
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000138692**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335212117311301		
Monloc name:	003S006W28M002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.8700159
Longitude:	-117.5211592	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

4
WSW **FED USGS** **USGS40000138680**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335207117321701		
Monloc name:	002S006W29F002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.868627
Longitude:	-117.5389375	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	193
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
NE
1/2 - 1 Mile
Higher

CA WELLS **3590**

Water System Information:

Prime Station Code:	03S/06W-28N01 S	User ID:	33C
FRDS Number:	3301168001	County:	Riverside
District Number:	63	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335236.0 1173112.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	3301168		
System Name:	HOME GARDENS SCHOOL		
Organization That Operates System:			
	300 BUENA VISTA AVE. CORONA, CA 91720		
Pop Served:	540	Connections:	1
Area Served:	Not Reported		

6
NE
1/2 - 1 Mile
Higher

CA WELLS **3589**

Water System Information:

Prime Station Code:	03S/06W-28M04 S	User ID:	WAT
FRDS Number:	3310018005	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335240.5 1173110.5	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 05		
System Number:	3310018		
System Name:	Home Gardens County WD		
Organization That Operates System:			
	3824 N. Grant St. Corona, CA 91719		
Pop Served:	3044	Connections:	789
Area Served:	HOME GARDENS COMMUN		
Sample Collected:	03-JAN-11	Findings:	32. UG/L
Chemical:	ARSENIC		
Sample Collected:	03-JAN-11	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-JAN-11	Findings:	2.1 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	03-JAN-11	Findings:	0.88 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	10-JAN-11	Findings:	2.9 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

Sample Collected:	10-JAN-11	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JAN-11	Findings:	45. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-JAN-11	Findings:	6.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-JAN-11	Findings:	2.1 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-JAN-11	Findings:	0.529 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	18-JAN-11	Findings:	0.279 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	18-JAN-11	Findings:	0.409 PCI/L
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Sample Collected:	18-JAN-11	Findings:	0.295 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	18-JAN-11	Findings:	0.412 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	04-APR-11	Findings:	33. UG/L
Chemical:	ARSENIC		
Sample Collected:	04-APR-11	Findings:	32. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-APR-11	Findings:	2.2 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	04-APR-11	Findings:	0.87 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	11-APR-11	Findings:	37. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-APR-11	Findings:	5.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-APR-11	Findings:	2.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-APR-11	Findings:	0.601 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	11-APR-11	Findings:	0.377 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	11-APR-11	Findings:	0.351 PCI/L
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Sample Collected:	11-APR-11	Findings:	0.344 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	11-APR-11	Findings:	0.412 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	18-APR-11	Findings:	2.3 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

Sample Collected:	18-APR-11	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUL-11	Findings:	28. UG/L
Chemical:	ARSENIC		
Sample Collected:	05-JUL-11	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-JUL-11	Findings:	2.2 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	05-JUL-11	Findings:	0.88 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	11-JUL-11	Findings:	2.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	11-JUL-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JUL-11	Findings:	32. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-JUL-11	Findings:	2.4 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	12-JUL-11	Findings:	0.88 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	12-JUL-11	Findings:	0.538 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	12-JUL-11	Findings:	0.286 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	12-JUL-11	Findings:	4.8e-002 PCI/L
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Sample Collected:	12-JUL-11	Findings:	0.313 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	12-JUL-11	Findings:	0.412 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	05-OCT-11	Findings:	32. UG/L
Chemical:	ARSENIC		
Sample Collected:	05-OCT-11	Findings:	34. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-OCT-11	Findings:	2.3 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	05-OCT-11	Findings:	0.88 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	12-OCT-11	Findings:	2.7 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-OCT-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	9.7 UG/L
Chemical:	ARSENIC		

Sample Collected:	03-JAN-12	Findings:	17. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-JAN-12	Findings:	1.7 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	03-JAN-12	Findings:	0.88 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	12-JAN-12	Findings:	2.9 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-JAN-12	Findings:	31. UG/L
Chemical:	ARSENIC		
Sample Collected:	12-JAN-12	Findings:	34. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-JAN-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-12	Findings:	2.4 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	12-JAN-12	Findings:	0.88 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	13-FEB-12	Findings:	0.61 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	13-FEB-12	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		

B7
ESE **CA WELLS** **3588**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	03S/06W-28M03 S	User ID:	WAT
FRDS Number:	3310018002	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	335200.0 1173100.0	Precision:	Undefined
Source Name:	WELL 02 - DESTROYED		
System Number:	3310018		
System Name:	Home Gardens County WD		
Organization That Operates System:			
	3824 N. Grant St.		
	Corona, CA 91719		
Pop Served:	3044	Connections:	789
Area Served:	HOME GARDENS COMMUN		

B8
ESE **CA WELLS** **3587**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	03S/06W-28M02 S	User ID:	WAT
FRDS Number:	3310018001	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Agricultural/Irrigation Well
Source Lat/Long:	335200.0 1173100.0	Precision:	Undefined
Source Name:	WELL 01 - AGRICULTURE		

System Number:	3310018		
System Name:	Home Gardens County WD		
Organization That Operates System:			
	3824 N. Grant St.		
	Corona, CA 91719		
Pop Served:	3044	Connections:	789
Area Served:	HOME GARDENS COMMUN		
Sample Collected:	08-AUG-11	Findings:	0.53 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08-AUG-11	Findings:	100. MG/L
Chemical:	NITRATE (AS NO3)		

B9
ESE **CA WELLS 3585**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	03S/06W-28L03 S	User ID:	WAT
FRDS Number:	3310018004	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	335200.0 1173100.0	Precision:	Undefined
Source Name:	WELL 04 - INACTIVE		
System Number:	3310018		
System Name:	Home Gardens County WD		
Organization That Operates System:			
	3824 N. Grant St.		
	Corona, CA 91719		
Pop Served:	3044	Connections:	789
Area Served:	HOME GARDENS COMMUN		

B10
ESE **CA WELLS 3586**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	03S/06W-28L04 S	User ID:	WAT
FRDS Number:	3310018003	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	335200.0 1173100.0	Precision:	Undefined
Source Name:	WELL 03 - ABANDONED		
System Number:	3310018		
System Name:	Home Gardens County WD		
Organization That Operates System:			
	3824 N. Grant St.		
	Corona, CA 91719		
Pop Served:	3044	Connections:	789
Area Served:	HOME GARDENS COMMUN		

C11
East **FED USGS USGS40000138696**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335214117305501		
Monloc name:	003S006W28L003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.8705715
Longitude:	-117.516159	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	200
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C12
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000138691**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335212117305501		
Monloc name:	003S006W28L004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.8700159
Longitude:	-117.516159	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	203
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
13 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083301552T Not Reported 25 50 Not Reported 02/14/1996	**AQUIFLOW**	**50807**
14 **WSW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083301917T Not Reported Not Reported Not Reported 128 03/31/1996	**AQUIFLOW**	**50800**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92879	9	0

Federal EPA Radon Zone for RIVERSIDE 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 RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

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 Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.

STATE RECORDS

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.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Appendix D

Records Request and Database Searches

TRANSACTION REPORT

JAN/28/2015/WED 01:29 PM

FAX(TX)

#	DATE	START T.	RECEIVER	COM.TIME	PAGE	TYPE/NOTE	FILE
001	JAN/28	01:28PM	917144845318	0:00:17	1	MEMORY OK SG3	4629

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

January 28, 2015

To: RRC
Department of Toxic Substances Control
Cypress Office

From: Violet Flores
Southern California Edison
Corporate Environmental, Health and Safety
Environmental Engineering

SUBJECT: Public Records Request

The Southern California Edison's Corporate Environmental, Health and Safety (CEHS) Department is conducting a Phase I Environmental Site Assessment (ESA) for the subject properties listed below. One of the properties had a building with an address of 1620 Magnolia Avenue, Corona, CA 92878. The second property is undeveloped vacant land and does not have an address. I would appreciate your assistance in identifying any available records regarding these properties.

Subject Properties APNs:

1. 107-060-008
2. 107-060-009

If you have any questions regarding these parcels, please call me at 626-407-1991 or email me at violet.flores@sce.com.

Best regards,

Violet Flores
Environmental Engineer
Corporate Environmental Health and Safety

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

January 29, 2015

Violet Flores
SOUTHERN CALIFORNIA EDISON
1218 S. Fifth Avenue
Monrovia, CA 91016

1620 MAGNOLIA AVENUE, CORONA, CA 107-060-008/ 107-060-009
PR4-012815-3

Dear Ms. Flores:

The Department of Toxic Substances Control has received your letter to review records under the Public Records Act.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accesses at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available at each DTSC Regional File Room Office for use by community members to view EnviroStor.

If you have any questions or would like further information regarding your request, please contact me at (714) 484-5337.

Sincerely,

Julie Johnson
Julie Johnson
Regional Records Coordinator

Violet Flores

From: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Sent: Friday, January 30, 2015 6:41 AM
To: Violet Flores
Subject: RE: File Review Request

Hello, I show no record for the address of 1620 Magnolia Ave and apn's 107-060-008 and 009. If you have any questions please call 951-782-4130. Thanks

---

From: Violet Flores [mailto:Violet.Flores@sce.com]
Sent: Wednesday, January 28, 2015 1:13 PM
To: WB-RB8-FileReview8
Subject: File Review Request

Hello,

The Southern California Edison's Corporate Environmental, Health and Safety (CEHS) Department is conducting a Phase I Environmental Site Assessment (ESAs) for the subject properties listed below. One of the properties had a building with an address of 1620 Magnolia Avenue, Corona, CA 92878. The second property is undeveloped vacant land and does not have an address. I am not familiar with the process for public records request and would appreciate your assistance in identifying any available records regarding these properties.

Subject Properties APNs:

1. 107-060-008
2. 107-060-009

If you have any questions regarding these parcels, please call me at 626-407-1991 or email me at violet.flores@sce.com.

Thank you,

Violet Flores
Environmental Engineering
Southern California Edison
Cell: (626) 407-1991
Office: (626) 462-8737 PAX 74737

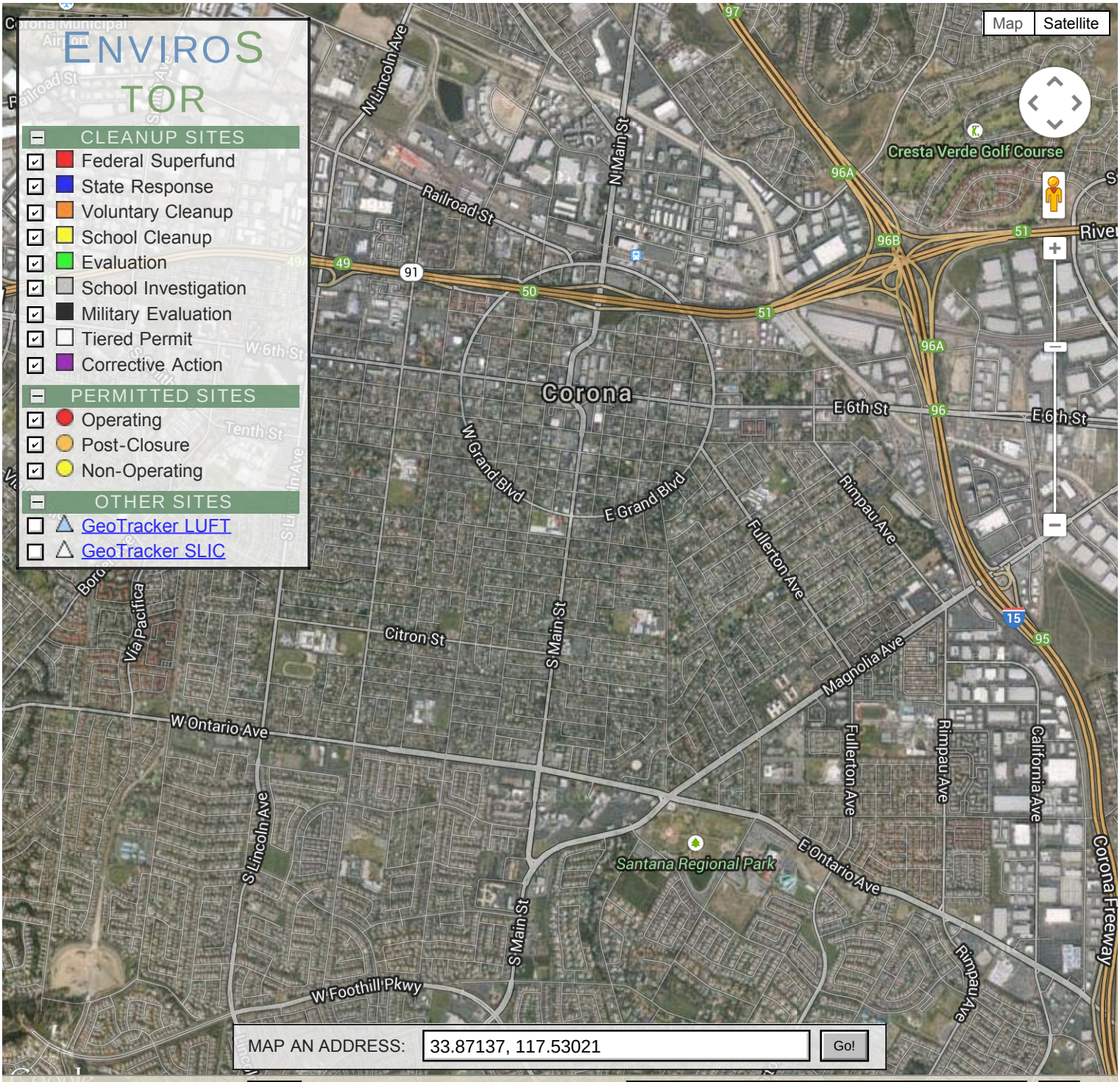
Your request has been received. Click to print -->

Please refer to the Request No. below for future reference, and allow ten (10) days for a response. Please let us know if you have any suggestions or comments about using this form.

QUICK SURVEY
Please click here to take a few moments to provide your feedback on this new online service. We appreciate your comments!

Request No.	6247
Request Date	02/06/15
Last Name	Violet
First Name	Flores
Address	1620 Magnolia Avenue Corona, CA 92879
Phone (Day)	626-407-1991 « Preferred
Email	violet.flores@sce.com
Record(s) Requested	To view the following records - Environmental Documents - Permits
Description	APNs 107-060-008 and 107-060-009 1620 Leeson Avenue, Corona is also addressed to the property. One concern for this search is to identify if a underground storage tank is located on the property. Thank you.

NOTE: This request for a Public Record will be maintained for two (2) years in accordance with the City's Record Retention Schedule.



SHOW SITES WITHIN 1000 FEET OF THE FOLLOWING ADDRESS: Go

SITES FOUND IN SEARCH RADIUS

6 SITES LISTED — EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY
ALUMINUM & MAGNESIUM INC. DIVISION OF VULCAN MATERIALS	INACTIVE - NEEDS EVALUATION	EVALUATION	1300 W. SAMPSON	CORONA
CLOW VALVE COMPANY	INACTIVE - NEEDS EVALUATION	TIERED PERMIT	1375 MAGNOLIA AVENUE	CORONA
GLENN A. SINGER, INC.	REFER: OTHER AGENCY	TIERED PERMIT	1865 SAMPSON AVE	CORONA
HOME GARDENS ELEMENTARY SCHOOL	CERTIFIED	SCHOOL CLEANUP	13550 TOLTON AVENUE	CORONA
IMCO WASTE DISPOSAL AREA (FORMER)	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY	VOLUNTARY CLEANUP	1462 QUARRY STREET	CORONA
U.S. BATTERY MFG. CO.	INACTIVE - NEEDS EVALUATION	TIERED PERMIT	1675 SAMPSON AVENUE	CORONA

CLOW VALVE COMPANY (71003713)

SIGN UP FOR EMAIL ALERTS

1375 MAGNOLIA AVENUE
CORONA, CA 91719
RIVERSIDE COUNTY
SITE TYPE: TIERED PERMIT

SUPERVISOR: ROBERT SENGA
OFFICE: CLEANUP CYPRESS

Summary | Activities | Sub-Areas | Map

Site Information

CLEANUP STATUS
INACTIVE - NEEDS EVALUATION AS OF 11/10/2010

SITE TYPE: TIERED PERMIT	ENVIROSTOR ID:	71003713
NATIONAL PRIORITIES LIST: NO	SITE CODE:	600876
ACRES: 5 ACRES	SPECIAL PROGRAM:	
APN: NONE SPECIFIED	FUNDING:	
CLEANUP OVERSIGHT AGENCIES:	ASSEMBLY DISTRICT:	60
NONE SPECIFIED	SENATE DISTRICT:	31

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
NONE SPECIFIED

POTENTIAL CONTAMINANTS OF CONCERN
NONE SPECIFIED

POTENTIAL MEDIA AFFECTED
NONE SPECIFIED

Site History

Site History: Clow currently machines, assembles, pressure-tests, and paints fire hydrants, valves, and associated equipment on the western portion of the property. Approximately 60% of the property is currently used for machining, product finishing and testing, and product usage. The remaining 40% currently encompasses asphalt-paved parking areas and unpaved areas. Clow formerly maintained annual permits for flammable and combustible liquid storage, spray booths, and welding from the City of Corona. American Foundry used the property during the 1950's to manufacture iron pipes and fittings. An aerial photo from this time period shows what appears to be the former brass foundry building onsite. Rich Manufacturing occupied the property in 1960 and continued iron pipe construction. Rich erected two new buildings (the machine shop and the former iron foundry (Current ANACO building), and operated the foundries and machine shop until approximately 1970. Clow purchased the property in 1972 and began to manufacture fire hydrants and associated equipment. The fueling operations in the rail-spur area were discontinued in the late 1970's. Clow shut down the iron and brass foundries in 1982 and most equipment was removed from the iron foundry; however, brass foundry operation was restarted in 1983. McWane, Inc. purchased Clow in 1985 and assumed ownership of the property and facility. The brass foundry was shut down in 1991 and only assembles and warehousing operations were performed from 1992 through 1995. The four UST's were removed in December 1993. Foundry sand, shallow excavated soil, bag-house dust, and the test pond were removed during July to October 1994. Berms were placed around areas of concern identified by country inspectors in 1994. Six large transformers were removed in 1997 and replaced with four new dry-type transformers. The asphalt dip tank was removed in approximately 1997. Stormwater pollution devices were installed in 2001. Clow currently machined, assembles, pressure-tests, and paints fire hydrants, valves, and associated equipment only on the western portion of the property. The unused foundry buildings, small offices, and open areas at the eastern and northern portions of the site have since been leased to a succession of tenants. The former iron foundry building was occupied by DH Enterprises, an automobile tire recycler. Used tires would be delivered to the site in large steel bins, shredded into bins, and then shipped out via truck. The former iron foundry currently houses ANACO, a pipe fitting manufacturer. The former brass foundry building was partitioned in half, with the eastern portion used by Clow as a product storage area, and the western portion housing Tyler Pipe Shipping. The Tyler Pipe Shipping operation consists of an office and outside storage of large-diameter cast piping. Uncovered and plastic-wrapped pipe fittings are stored on wooden pallets and are

periodically loaded onto trucks using a propane-powered forklift. The southern corner portion of the property with the small office building was occupied by Mercury Rubber during the 1980's. Used automobile tires were stored and shredded on this potion of the site, then shipped out. After the Mercury Rubber facility was abandoned by its operator, Clow removed the tires and equipment at great expense. DH Enterprises reported assisted in this effort by conducting the rubber recycling operation. Former tenant American Underground and current tenant Pacific States occupied the unpaved area at the southwestern portion of the site. Their operations included sales and outside storage of large-diameter cast piping and fittings on pallets that are loaded into trucks. This area is currently used by Pacific States also as a pipe storage yard. Uncovered and plastic-wrapped pipe and fittings are stored on pallets and are loaded onto trucks using a propane-powered forklift.

Groundwater Contamination: On groundwater well is installed in the area found to have the greatest potential for groundwater contamination. Quarterly monitoring is being conducted at this well. Initially reletively low concentrations of petroleum hydrocarbons and TCE were detected. Three sampling events, July 07 through Jan 08 all analytes were ND.

Project Description: Corrective Action under a Corrective Action Consent Agreement. Site characterization has identified near surface metal contamination..

Facility Comments: Machining and assembly operations, former bronze foundry.

ALUMINUM & MAGNESIUM INC. DIVISION OF VULCAN MATERIALS (60000220)

SIGN UP FOR EMAIL ALERTS

1300 W. SAMPSON
CORONA, CA 92879
RIVERSIDE COUNTY
SITE TYPE: EVALUATION

SUPERVISOR: * GREG HOLMES
OFFICE: CLEANUP CYPRESS

Summary | Activities | Map

Site Information

CLEANUP STATUS
INACTIVE - NEEDS EVALUATION AS OF 1/14/2008

SITE TYPE:	EVALUATION	ENVIROSTOR ID:	60000220
NATIONAL PRIORITIES LIST:	NO	SITE CODE:	
ACRES:	1 ACRES	SPECIAL PROGRAM:	EPA - PASI
APN:	NONE SPECIFIED	FUNDING:	NOT APPLICABLE
CLEANUP OVERSIGHT AGENCIES:		ASSEMBLY DISTRICT:	60
DTSC - SITE CLEANUP PROGRAM - LEAD		SENATE DISTRICT:	31
US EPA< font=""><>			

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
NONE SPECIFIED

POTENTIAL CONTAMINANTS OF CONCERN
NONE SPECIFIED

POTENTIAL MEDIA AFFECTED
NONE SPECIFIED

Site History

A property adjacent to this property is a site called IMCO, at 1462 Quarry Road, Corona, and is currently being investigated under a voluntary cleanup agreement. The Aluminum & Magnesium site also needs investigation.

0.296875 seconds

GLENN A. SINGER, INC. (71003811)

SIGN UP FOR EMAIL ALERTS

1865 SAMPSON AVE
CORONA, CA 92879
RIVERSIDE COUNTY
SITE TYPE: TIERED PERMIT

OFFICE: CLEANUP CYPRESS

Summary | Map

Site Information

CLEANUP STATUS
REFER: OTHER AGENCY AS OF

SITE TYPE: TIERED PERMIT	ENVIROSTOR ID:	71003811
NATIONAL PRIORITIES LIST: NO	SITE CODE:	
ACRES: NONE SPECIFIED	SPECIAL PROGRAM:	
APN: NONE SPECIFIED	FUNDING:	
CLEANUP OVERSIGHT AGENCIES:	ASSEMBLY DISTRICT:	60
NONE SPECIFIED	SENATE DISTRICT:	31

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
NONE SPECIFIED

POTENTIAL CONTAMINANTS OF CONCERN	POTENTIAL MEDIA AFFECTED
NONE SPECIFIED	NONE SPECIFIED

Site History

0.328125 seconds

HOME GARDENS ELEMENTARY SCHOOL (60000836)

SIGN UP FOR EMAIL ALERTS

13550 TOLTON AVENUE
CORONA, CA 92503
RIVERSIDE COUNTY
SITE TYPE: SCHOOL

SUPERVISOR: SHAHIR HADDAD
OFFICE: SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH
SCHOOL DISTRICT: CORONA-NORCO UNIFIED SCHOOL DISTRICT

Summary | Activities | Community Involvement | Map

Site Information

CLEANUP STATUS
CERTIFIED AS OF 6/8/2011

SITE TYPE: SCHOOL
NATIONAL PRIORITIES LIST: NO
ACRES: 7.65 ACRES
APN: NONE SPECIFIED
CLEANUP OVERSIGHT AGENCIES:
DTSC - SITE CLEANUP PROGRAM - LEAD< font=""><>

SCHOOL DISTRICT: CORONA-NORCO UNIFIED SCHOOL DISTRICT
ENVIROSTOR ID: 60000836
SITE CODE: 404772
SPECIAL PROGRAM:
FUNDING: SCHOOL DISTRICT
ASSEMBLY DISTRICT: 60
SENATE DISTRICT: 31

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
AGRICULTURAL - ROW CROPS, SCHOOL - ELEMENTARY

POTENTIAL CONTAMINANTS OF CONCERN
CHLORDANE
ALDRIN
DIELDRIN
HEPTACHLOR< font=""><>

POTENTIAL MEDIA AFFECTED
SOIL

Site History

The approximately 7.6 acre Site consists of the existing Home Gardens Elementary School and is bounded by Tolton Avenue to the north, residential properties to the south, Grant Street to the east and Brotherton Street to the west in the City of Corona. Historically, portions of the Site were used for agricultural purposes from 1931 to 1962. The existing Home Gardens Elementary School has been present since 1946. During the Preliminary Environmental Assessment (PEA), the site was investigated for organochlorine pesticides, metals, and volatile organic compounds. On April 9, 2009, DTSC determined that a removal action is necessary based on the findings of the PEA. DTSC approved the RAW for implementation. During the removal action, approximately 502 tons of OCP contaminated soil was generated. The soil was loaded into transport trucks and shipped offsite for disposal at Cleanharbors (Buttonwillow, California) and TPST Soil Recyclers (Adelanto, California). Post removal confirmation soil sampling results indicate the removal action objectives and cleanup goals were achieved. As part of the approved remedy a Land Use Covenant (LUC) was proposed for the levels of OCP impacted soil (above unrestricted land-use levels) remaining on-site. However, after further evaluation of the risk associated with the remaining concentrations of OCPs, DTSC has concluded that there is no significant risk from the Site for unrestricted (residential) land use and recommends no further action. Therefore, DTSC approved the RACR without the requirement for a LUC.

IMCO WASTE DISPOSAL AREA (FORMER) (33500001)

SIGN UP FOR EMAIL ALERTS

1462 QUARRY STREET
CORONA, CA 92879
RIVERSIDE COUNTY
SITE TYPE: VOLUNTARY CLEANUP

PROJECT MANAGER: DANIEL ZOGAIB
SUPERVISOR: EMAD YEMUT
OFFICE: SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH

Summary | Land Use Restrictions | Activities | Community Involvement | Map

Site Information

CLEANUP STATUS
CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 6/21/2010

SITE TYPE:	VOLUNTARY CLEANUP	ENVIROSTOR ID:	33500001
NATIONAL PRIORITIES LIST:	NO	SITE CODE:	401700
ACRES:	3.9 ACRES	SPECIAL PROGRAM:	VOLUNTARY CLEANUP PROGRAM
APN:	115-200-002	FUNDING:	SITE PROPONENT
CLEANUP OVERSIGHT AGENCIES:		ASSEMBLY DISTRICT:	60
DTSC - SITE CLEANUP PROGRAM - LEAD< font=""><>		SENATE DISTRICT:	31

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
LANDFILL - DOMESTIC, METAL RECLAMATION, RECYCLING - SCRAP METAL

POTENTIAL CONTAMINANTS OF CONCERN
METALS
POLYCHLORINATED BIPHENYLS (PCBS)

POTENTIAL MEDIA AFFECTED
SOIL

Site History

The Site The former IMCO Recycling Facility (Site) consists of 3.9 acres of undeveloped land. The Site is located in a light industrial area. The Site is bounded by the Santa Fe Railroad property spur to the north; 6th Street to the south; a commercial property to the east; and a vacant lot to the west.

Santa Fe Railroad occupied the Site in 1906. The Site was used as an Army Depot for World War I and World War II from 1910 to 1946. In 1967, the Site was permitted as a Class III solid waste disposal facility for waste resulting from smelting operations at an adjacent facility. Landfill materials included bag-house items, refractory brick, aluminum scrap, and construction rubble. From 1975 to 1993 the Site was used as a waste disposal facility for “non-water soluble, non-decomposable process residues from smelting operations and heavy rubber.” From 1993 to 1996, heavy metal rubble was disposed of on the Site from an adjacent smelter facility. Since 1996 the Site has been vacant.

In 1987 a Solid Waste Assessment Test (SWAT) was conducted on the Site by Radian Corporation. Sample results indicated the presence of volatile organic compounds in the soil gas beneath the Site. In 1991, the California Regional Water Quality Control Board – Santa Ana concluded that the placement of smelter residuals on the Site had not impacted the groundwater quality.

The property owner, 6th and Radio Business Park, LLC entered into Voluntary Cleanup Agreement with the DTSC in 2005 to investigate the property. A Supplemental Site Investigation was conducted and concluded that VOCs were not of concern at the site for future occupants of the site. Metals contamination were slightly elevated, but were still within industrial/commercial contaminant levels. A Remedial Action Workplan was approved in December of 2008 for implementation of institutional controls in the form of a Land Use Restriction (LUR), and a hardscape cap for the property in anticipation of the property sale and development.

Implementation of the RAW took place between April 2012 and June 2013. Work consisted of excavation, consolidation

and compaction of approximately 81,300 cubic yards of soil and capping with approximately 9,600 cubic yards of imported clean fill material to create a hardscape surface and provide adequate drainage and grading for the Site. All RAW implementation activities were documented in a Closure Report and was subsequently approved on September 25, 2013 by DTSC. Currently the property is vacant and pending sale for redevelopment by the new owner. Annual monitoring will continue as required by the LUR.

0.265625 seconds

U.S. BATTERY MFG. CO. (71003132)

SIGN UP FOR EMAIL ALERTS

1675 SAMPSON AVENUE
CORONA, CA 91719
RIVERSIDE COUNTY
SITE TYPE: TIERED PERMIT

SUPERVISOR:
OFFICE: CLEANUP CYPRESS

Summary | Map

Site Information

CLEANUP STATUS
INACTIVE - NEEDS EVALUATION AS OF

SITE TYPE: TIERED PERMIT	ENVIROSTOR ID:	71003132
NATIONAL PRIORITIES LIST: NO	SITE CODE:	
ACRES: NONE SPECIFIED	SPECIAL PROGRAM:	
APN: NONE SPECIFIED	FUNDING:	
CLEANUP OVERSIGHT AGENCIES:	ASSEMBLY DISTRICT:	60
NONE SPECIFIED	SENATE DISTRICT:	31

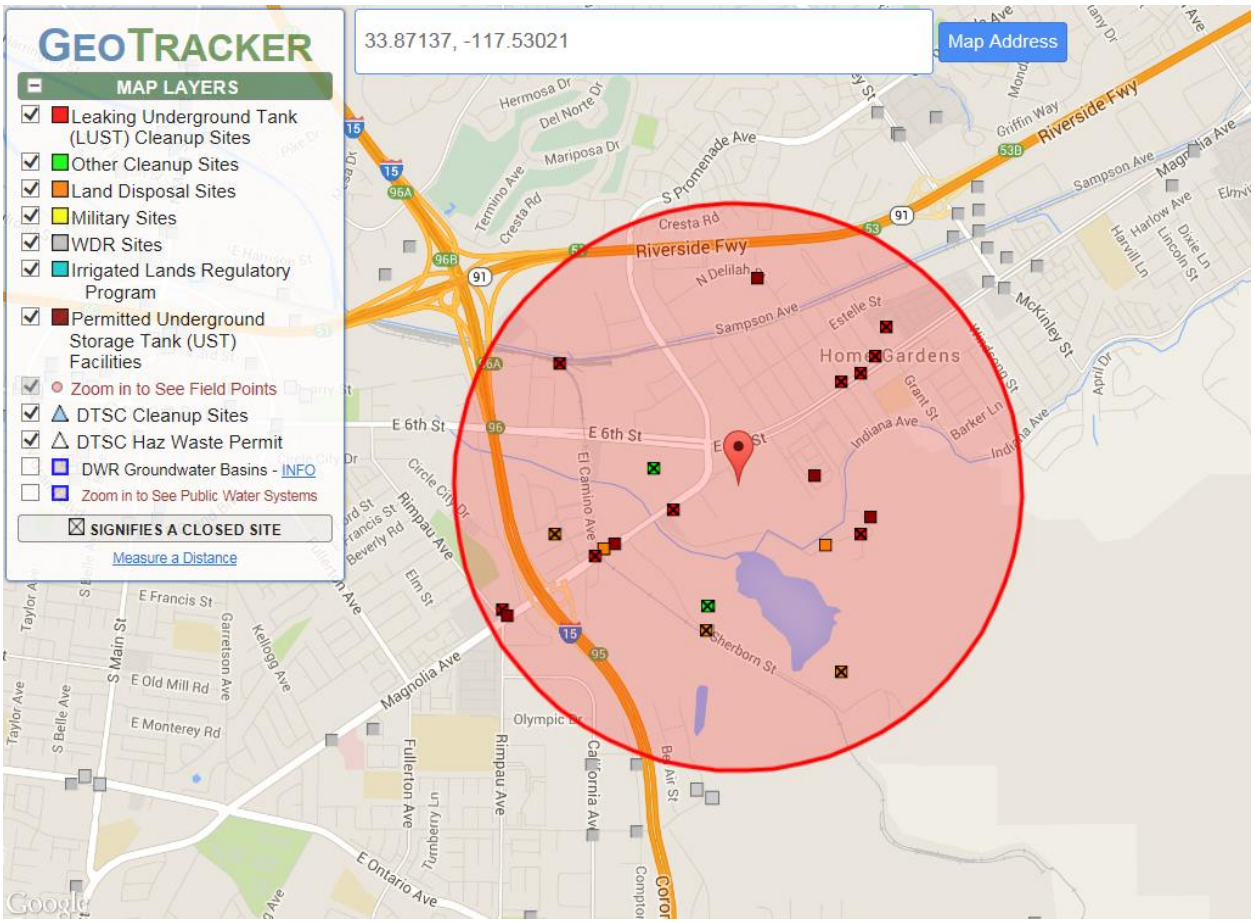
Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
NONE SPECIFIED

POTENTIAL CONTAMINANTS OF CONCERN	POTENTIAL MEDIA AFFECTED
NONE SPECIFIED	NONE SPECIFIED

Site History

0.25 seconds



SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
ALL AMERICAN ASPHALT		17		1776 ALL AMERICAN WY	CORONA
BRINE FAC,JOHNS MANVILLE - CORONA	L10001714429		COMPLETED - CASE CLOSED	1251 MAGNOLIA	CORONA
CAMCO CONSTRUCTION	T0606500311		COMPLETED - CASE CLOSED	1776 ALL AMERICAN WAY	CORONA
CIRCLE K	T0606500348		COMPLETED - CASE CLOSED	13595 MAGNOLIA AVE	CORONA
CORONA CROSS ROADS	SLT8R1264164		COMPLETED - CASE CLOSED	N/A SHERBORN STREET	CORONA
CT CORONA	T10000005860		COMPLETED - CASE CLOSED	1451 MAGNOLIA AVE X E 6TH ST	CORONA
DOWN'S OIL	T0606500496		COMPLETED - CASE CLOSED	1296 MAGNOLIA AVE	CORONA
DOWNS COMMERCIAL FUELING INC		285		1296 MAGNOLIA AVE	CORONA
ED'S AUTO WRECKING	T0606500229		COMPLETED - CASE CLOSED	1480 MAGNOLIA AVE	CORONA
GREENWASTE, BP JOHN RECYCLING-CORONA	L10009695926		COMPLETED - CASE CLOSED	1501 SHERBORN ROAD	CORONA
JOHN LIVACICH	T0606500578		COMPLETED -	13485 MAGNOLIA AVE	HOME

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
PRODUCE			CASE CLOSED		GARDENS
LANDFILL,CORONA	L10003130170		COMPLETED - CASE CLOSED	1462 QUARRY	CORONA
LANDFILL,CORONA-CLOSED	L10005490322		OPEN - CLOSED/WITH MONITORING	1462 QUARRY ST	CORONA
LANDFILL,CORONA-INERT	L10005540133		OPEN - OPERATING	1776 ALL AMERICAN	CORONA
LANDFILL,INERT BRUCE HAHN	L10009123613		COMPLETED - CASE CLOSED	1601 SHERBORN	CORONA
MOBIL BECK	T0606500412		COMPLETED - CASE CLOSED	13653 MAGNOLIA AVE	CORONA
SHELL MAGNOLIA CORONA	T0606500247		COMPLETED - CASE CLOSED	1205 MAGNOLIA AVE	CORONA
SMOG CHECK OF CORONA	T0606500118		COMPLETED - CASE CLOSED	13537 MAGNOLIA AVE	CORONA
SOUTHERN CALIFORNIA GAS CO. CORONA		708		1775 SAMPSON AVE	CORONA
STATION		81539		1205 MAGNOLIA AVE.	CORONA
THAKAR ALUMINUM	T0606500188		COMPLETED - CASE CLOSED	1462 QUARRY ST	CORONA
WESTERN WASTE INDUSTRIES		824		800 S TEMESCAL ST	CORONA

Department of Conservation

Division of Oil, Gas & Geothermal Resources Well Finder

Find By Location

Find By API

Find By Lat / Long

Lat: + 33.870839

Long: – 117.529672 Find

Display a 1500ft buffer

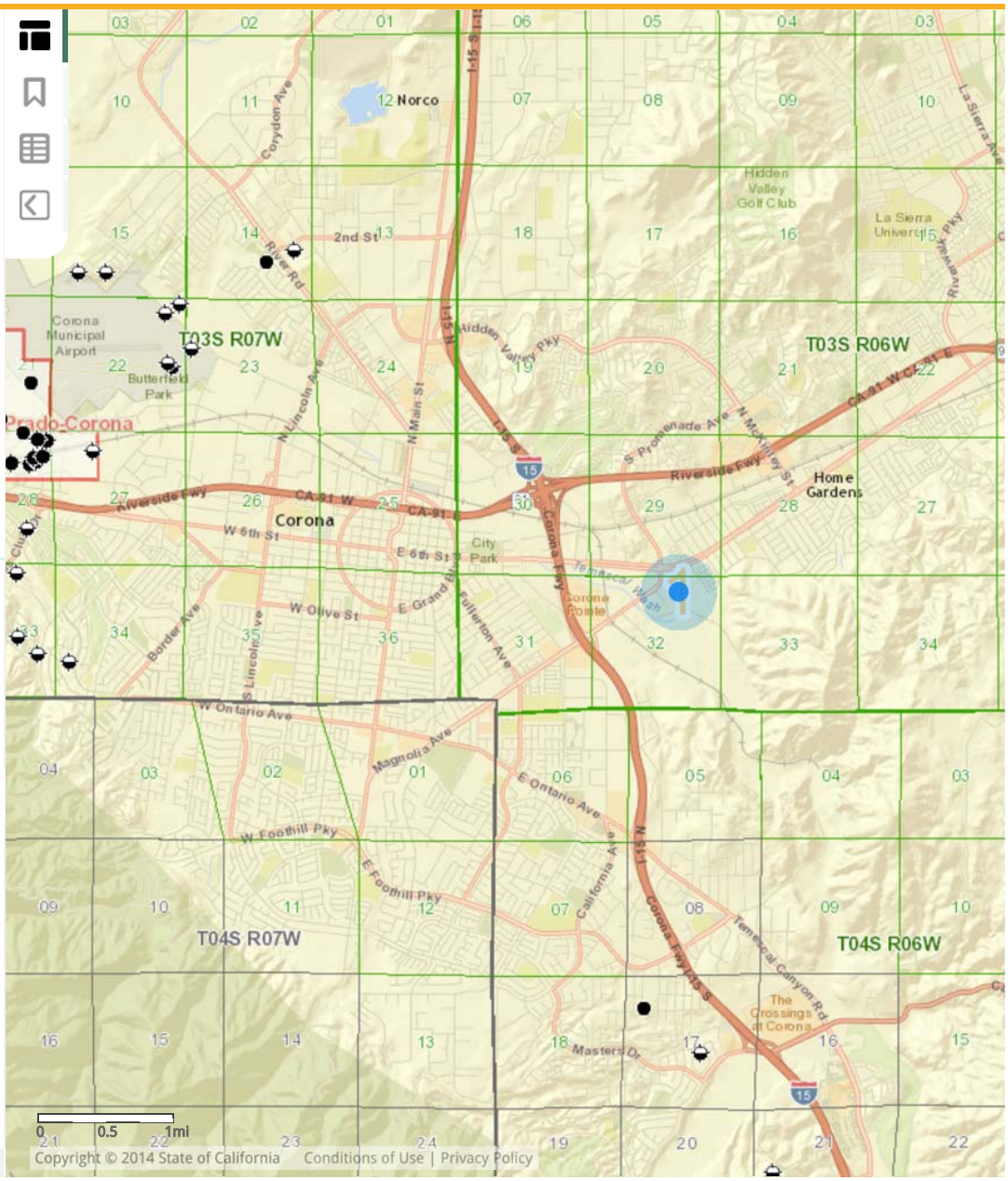
Latitude and Longitude (Lat / Long) are a set of two angular numbers that represent a location on the Earth.
For more Info, visit: Wikipedia.
Datum: NAD83

Find By PLSS

Find By Oil/Gas Field

Data (Layers):

- Notice & Permit
- DOGGR Well
  - Label: API# Well# Detailed
- Cal State Assembly District
- Cal State Senate District
- Cal Congressional District
- Oil/Gas Field
- Public Land Survey System
- DOGGR District
- City
- County



SOUTH COAST AQMD

Facility INformation Detail (FIND)

Equipment List

Facility ID	16417
Company Name	SAN VALLE TILE KILNS INC PLT #1
Address	1620 MAGNOLIA AVE
	CORONA, CA 90028

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
03070E				Basic	ICE OTH NAT GAS ONLY	11/24/1981	APPLICATION CANCELLED
02466R	02153R	11/7/1973	INACTIVE	Basic	CLAY CONVEYING		PERMIT TO OPERATE GRANTED
00870R	00873R	9/22/1966	INACTIVE	Basic	CLAY SIZE REDUCTION		PERMIT TO OPERATE GRANTED
00869R	00874R	9/22/1966	INACTIVE	Basic	CLAY SIZE REDUCTION		PERMIT TO OPERATE GRANTED
905946	905946	2/4/1976	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE		PERMIT TO OPERATE GRANTED
00882R	00875R	9/22/1966	INACTIVE	Basic	STORAGE TANK FX RF W/CTL CLAY		PERMIT TO OPERATE GRANTED
00870R	00873R	9/22/1966	INACTIVE	Control	BAGHOUSE		PERMIT TO OPERATE GRANTED
00869R	00874R	9/22/1966	INACTIVE	Control	BAGHOUSE		PERMIT TO OPERATE GRANTED
00882R	00875R	9/22/1966	INACTIVE	Control	BAGHOUSE		PERMIT TO OPERATE GRANTED
02466R	02153R	11/7/1973	INACTIVE	Control	BAGHOUSE		PERMIT TO OPERATE GRANTED
905946	905946	2/4/1976	INACTIVE	Control	CONTROL ETO STERILIZATION HOSPITAL		PERMIT TO OPERATE GRANTED

First | Prev | Page 1 of 1 (11 records) | Next | Last | Page 1 | Export To Excel

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Application Details

Application/Tracking Number 00882R

Facility Information			
Business Name			
Facility ID	16417	Facility Status	

Application Information			
Application Type		Application Received	
Application Status		Application Deemed Complete	
Equipment Desc	STORAGE TANK FX RF W/CTL CLAY; BAGHOUSE		
Permit Number		Permit Status	INACTIVE

Engineer Information			
Engineer Assigned			
Engineer Phone		Team Assigned	

Appendix E

Historical Research
Documentation

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.6
January 16, 2015

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

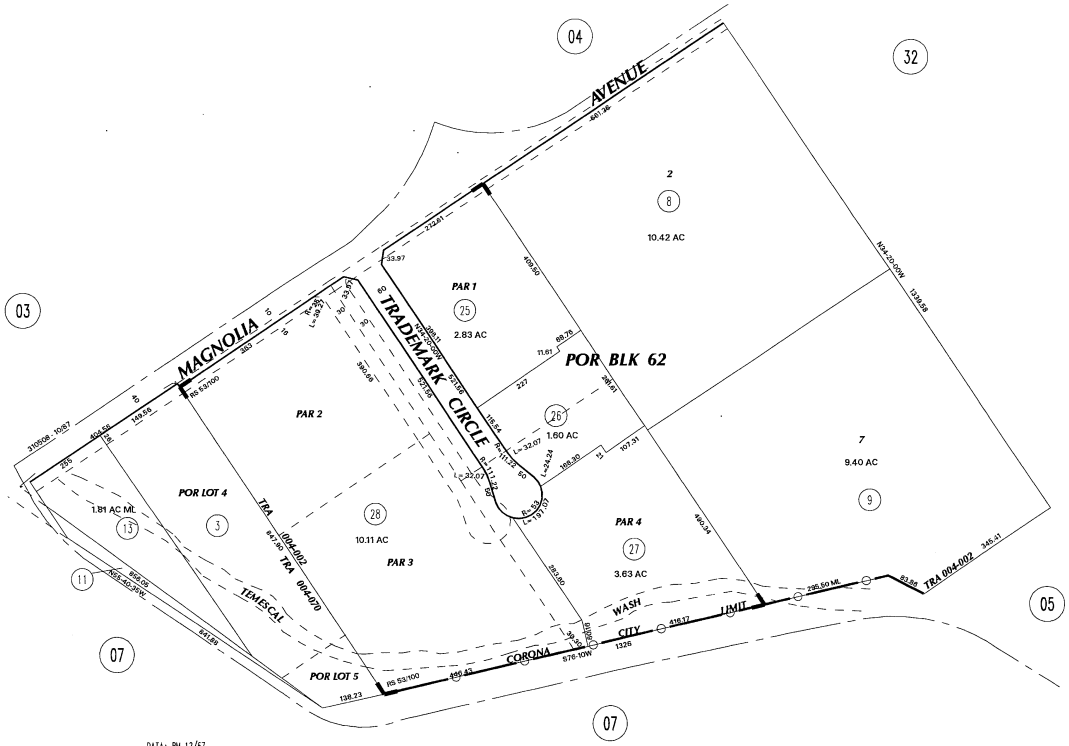
THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

POR.SEC 32 T.3S.,R.6W
CITY OF CORONA

T.R.A. 004-002
004-070

107-06
6-47

1" = 200'
ANGLE = 0



DATA: PM 12/67
RS 25/46
RS 40/59
RS 53/100
RS 78/23-26

ASSESSOR'S MAP BK107 PG.06
Riverside County, Calif.

WB 1/70 SB RIVERSIDE LAND & IRRIGATING CO.
RS 53/100 RECORD OF SURVEY

Dec 2002

DATE	OLD NUMBER	NEW NUMBER
11/81	10	050-12
12/84	1	11,12
12/84	2	13,14
12/84	12,14	070-17
04/02	19-22	23
04/02	23	24-27
10/02	24	28,37.

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

POR.SEC 32 T.3S.,R.6W
CITY OF CORONA

T.R.A. 004-002
004-070

107-06
6-47

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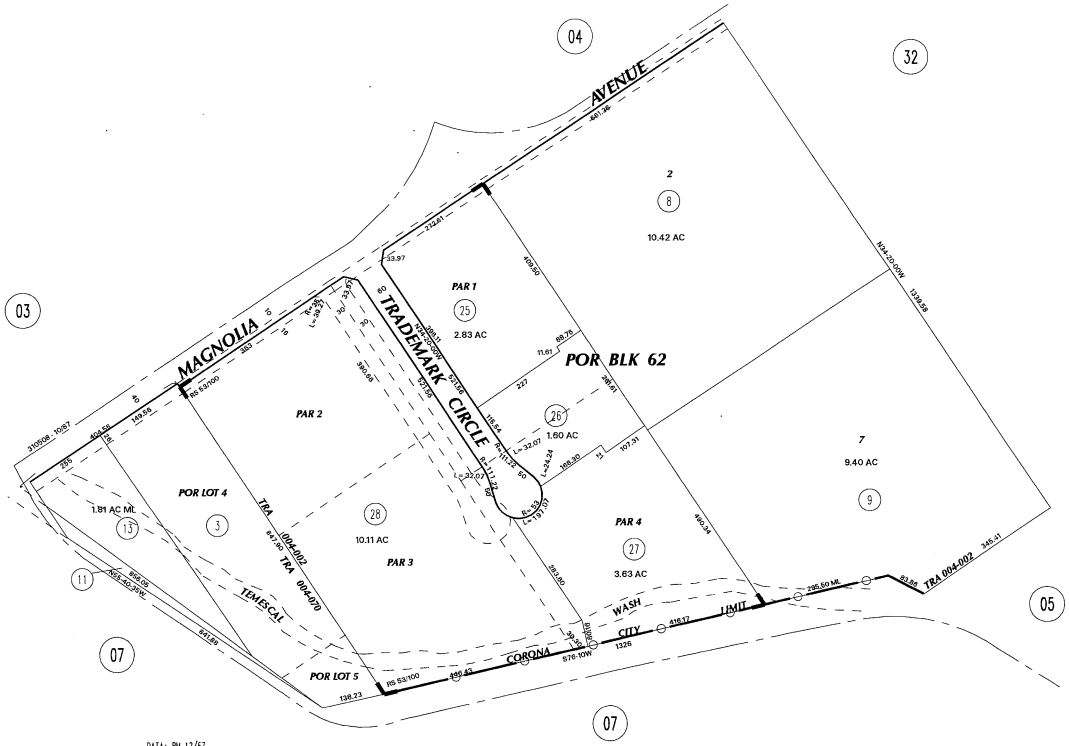
ANGLE = 0



DATA: PM 12/67
RS 25/46
RS 40/59
RS 53/100
RS 78/23-26

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04/02	23	24-27
10/02	24	28,37.

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.8
January 16, 2015

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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 (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Southern California Edison on Jan 16, 2015.

TARGET PROPERTY

Magnolia Avenue
Corona, CA 92879

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

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.

Corona

Year	*Source*	*TP*	*Adjoining*
2014	City of Corona, Comm Development, Building Division		
2013	City of Corona, Comm Development, Building Division		
2012	City of Corona, Comm Development, Building Division		
2011	City of Corona, Comm Development, Building Division		
2010	City of Corona, Comm Development, Building Division		
2009	City of Corona, Comm Development, Building Division		X
2008	City of Corona, Comm Development, Building Division		
2007	City of Corona, Comm Development, Building Division		X
2006	City of Corona, Comm Development, Building Division		X
2005	City of Corona, Comm Development, Building Division		X
2004	City of Corona, Comm Development, Building Division		
2003	City of Corona, Comm Development, Building Division		
2002	City of Corona, Comm Development, Building Division		
2001	City of Corona, Comm Development, Building Division		
2000	City of Corona, Comm Development, Building Division		
1999	City of Corona, Comm Development, Building Division		
1998	City of Corona, Comm Development, Building Division		
1997	City of Corona, Comm Development, Building Division		
1996	City of Corona, Comm Development, Building Division		
1995	City of Corona, Comm Development, Building Division		X
1994	City of Corona, Comm Development, Building Division		
1993	City of Corona, Comm Development, Building Division		X
1992	City of Corona, Comm Development, Building Division		
1991	City of Corona, Comm Development, Building Division		
1990	City of Corona, Comm Development, Building Division		X

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Corona
Years: 1990-2014
Source: City of Corona, Comm Development, Building Division, CORONA, CA
Phone: (951) 736-2250

Name: Chino
Years: 2008-2014
Source: City of Chino, Community Development, CHINO, CA
Phone: (909) 591-9813

Name: Hemet
Years: 1989-2012
Source: City of Hemet, Building and Safety, HEMET, CA
Phone: (951) 765-2475

Name: Riverside
Years: 2003-2014
Source: City of Riverside, Comm Devel, Building and Safety Division, RIVERSIDE, CA
Phone: (951) 826-5697

Name: Riverside County
Years: 1973-2014
Source: Riverside County, Building and Safety, WILDOMAR, CA
Phone: (951) 955-6742

Name: San Bernardino County
Years: 2002-2014
Source: San Bernardino County, Land Use, Building & Safety, CHINO, CA
Phone: (909) 387-8311

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

Magnolia Avenue
Corona, CA 92879

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

LEESON LN

1620 LEESON LN

Date:	**6/12/2009**
Permit Type:	**BLDG_COM**
Description:	**STORAGE RACKS**
Permit Description:	**Comm / Ind Bldg Permit**
Work Class:	
Proposed Use:	
Permit Number:	B0900876
Status:	PLNCHECK
Valuation:	$107,000.00
Contractor Company:	
Contractor Name:	TREE ISLAND WIRE

Date:	**9/21/2007**
Permit Type:	**BLDG_COM**
Description:	**STRUCTUAL REPAIRS TO INTERIOR COLUMNS & EXTERIOR BRACES**
Permit Description:	**Combination Bldg Permit**
Work Class:	
Proposed Use:	
Permit Number:	B0703040
Status:	FINALED
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	WIDE FLANGE STEEL

ADJOINING PROPERTY FINDINGS

Date: **7/6/1995**
Permit Type:
Description:

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: B9505489
Status: FINAL
Valuation: $10,000.00
Contractor Company:
Contractor Name: RAMON MONTEON

Date: **7/7/1993**
Permit Type:
Description:

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: B9302877
Status: FINAL
Valuation: $250.00
Contractor Company:
Contractor Name: TEMPORARY UTILITY SERVICES * S

Date: **9/11/1990**
Permit Type: **BLDG-IND**
Description: **MACHINE FOUNDATION & PIT**

Permit Description: **INDUSTRIAL/INSTITUTION B**
Work Class:
Proposed Use:
Permit Number: B9004865
Status: EXPIRED
Valuation: $48,000.00
Contractor Company:
Contractor Name: PACIFIC POINT MANAGEMENT

ADJOINING PROPERTY FINDINGS

Date: **9/4/1990**
Permit Type: **BLDG-IND**
Description: **BRIDGE CRANE**

Permit Description: **INDUSTRIAL/INSTITUTION B**
Work Class:
Proposed Use:
Permit Number: B9004668
Status: EXPIRED
Valuation: $40,500.00
Contractor Company:
Contractor Name: PACIFIC POINT MANAGEMENT

MAGNOLIA AVE

1620 MAGNOLIA AVE

Date: **1/4/2006**
Permit Type: **BLDG**
Description: **EXTERIOR TRUCK WELL WITH COVER * PLAN CHECK EXPIRED 4/5/07 - MH**

Permit Description: **Combination Bldg Permit**
Work Class:
Proposed Use:
Permit Number: B0600027
Status: EXPIRED
Valuation: $25,000.00
Contractor Company:
Contractor Name: USA WIRE (TENANT)

ADJOINING PROPERTY FINDINGS

Date:	**5/25/2005**
Permit Type:	**BLDG**
Description:	**3000 AMP NEW SERVICE ****
Permit Description:	**Combination Bldg Permit**
Work Class:	
Proposed Use:	
Permit Number:	B0501911
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	USA WIRE

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.5
January 19, 2015

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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 1921 through 2013. 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.

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
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2003	Cole Information Services	-	X	X	-
2002	SBC PACIFIC BELL	-	X	X	-
2001	Haines & Company, Inc.	-	X	X	-
1996	Pacific Bell	-	X	X	-
1993	Pacific Bell	-	X	X	-
1990	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1986	Pacific Bell Yellow Pages	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1967	Luskey Brothers & Co.	-	-	-	-
1966	Luskey Brothers & Company Inc.	-	-	-	-
1961	Luskey Brothers & Co.	-	-	-	-
1960	Luskeys Brothers & Co., Publishers	-	-	-	-
1956	Luskey Brothers & Co.	-	-	-	-
1955	Luskeys Brothers & Co., Publishers	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1946	Southern California Telephone Company	-	-	-	-
1945	Los Angeles Directory Co.	-	-	-	-
1941	Pacific Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1931	Southern California Telephone Co.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1927	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Kaasen Directory Co.	-	-	-	-
1921	Riverside Directory Co.	-	-	-	-

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*
1620 Magnolia Avenue	Client Entered	
1580 Magnolia Avenue	Client Entered	
755 Trademark Circle	Client Entered	
1623 Lesson Lane	Client Entered	
1650 E 6th Street	Client Entered	X
1660 Leeson Lane	Client Entered	X
800 S Temescal Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Magnolia Avenue
Corona, CA 92879

FINDINGS DETAIL

Target Property research detail.

MAGNOLIA AVE

1620 MAGNOLIA AVE

Year	*Uses*	*Source*
1990	UNIMAST INC	Pacific Bell
1981	San Valle Tile Kilns Inc	Pacific Telephone
1977	San Valle Tile Kilns Inc	Pacific Telephone

Magnolia Avenue

1620 Magnolia 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.

E 6TH ST

1650 E 6TH ST

Year	Uses	Source
2013	ANGELS SPORTS BAR	Cole Information Services
2008	ANGEL SPORTS BAR	Cole Information Services
	ANGEL ROADHOUSE	Cole Information Services
2003	ANOTHER ANGELS	Cole Information Services
	ANGELS SPORTS BAR	Cole Information Services

E 6th Street

1650 E 6th Street

Year	Uses	Source
2001	ANGELSGENTLEMENS	Haines & Company, Inc.
	CLUB ANGELSSPORTS BAR	Haines & Company, Inc.
	ANOTHERANGELS	Haines & Company, Inc.
1996	ANGELS SPORTS BAR	Pacific Bell

Leeson Lane

1660 Leeson Lane

Year	Uses	Source
2002	MISSION RUBBER CO	SBC PACIFIC BELL
2001	MISSION RUBBERCO	Haines & Company, Inc.
1996	MISSION RUBBER CO	Pacific Bell
	M C P INDUSTRIES	Pacific Bell
1993	Mission Rubber Co Inc	Pacific Bell
	MCPIndustriesInc	Pacific Bell
	Mission Rubber Co Inc	Pacific Bell

LEESON LN

1620 LEESON LN

Year	Uses	Source
2003	BAOAN INTERNATIONAL INVSTMNT	Cole Information Services

FINDINGS

Year	Uses	Source
2003	UNIVERSAL SOURCING OF AMERICA	Cole Information Services
	VINYL CORP	Cole Information Services
	USA INDUSTRIES	Cole Information Services
	BAOAN INTERNATIONAL INVSTMNT	Cole Information Services
	UNIVERSAL SOURCING OF AMERICA	Cole Information Services
	VINYL CORP	Cole Information Services
	USA INDUSTRIES	Cole Information Services
2002	VINYL CORP	SBC PACIFIC BELL
	INVESTMENTS	SBC PACIFIC BELL
	USA INDUSTRIES INC	SBC PACIFIC BELL
	BAOAN INTERNATIONAL	SBC PACIFIC BELL
2001	VINYLCORP	Haines & Company, Inc.
	USA INDUSTRIES INC	Haines & Company, Inc.
1996	USA INDUSTRIES INC	Pacific Bell

1623 LEESON LN

Year	Uses	Source
2013	D & B FIRE PROTECTION	Cole Information Services
	D & B FIRE PROTECTION	Cole Information Services
2008	D & B FIRE PROTECTION INC	Cole Information Services
	D & B FIRE PROTECTION INC	Cole Information Services
2002	D & B FIRE PROTECTION	SBC PACIFIC BELL
2001	ROWE Margarel	Haines & Company, Inc.
	D 0 B FIRE PROTECTION	Haines & Company, Inc.
1996	D & B FIRE PROTECTION	Pacific Bell
1993	Rowe G W General Contractor	Pacific Bell
	Rowe Patrick	Pacific Bell
	Rowell Wm I	Pacific Bell
1990	ROWE G W GENERAL CONTRACTOR	Pacific Bell

1628 LEESON LN

Year	Uses	Source
1993	Unimast Inc	Pacific Bell
	Union Bank	Pacific Bell

1660 LEESON LN

Year	Uses	Source
2013	MCP INDUSTRIES INC	Cole Information Services
	MISSION RUBBER CO	Cole Information Services

Year	Uses	Source
2008	MCP INDUSTRIES INC	Cole Information Services
	PUROSIL MISSION RUBBER CO	Cole Information Services
2003	MISSION RUBBER CO	Cole Information Services

S TEMESCAL ST

800 S TEMESCAL ST

Year	Uses	Source
2013	WASTE MANAGEMENT	Cole Information Services
2008	WASTE MANAGEMENT	Cole Information Services
	WASTE MGMT OF ALAMEDA CNTY	Cole Information Services

S Temescal Street

800 S Temescal Street

Year	Uses	Source
2002	USA WASTE OF CALIFORNIA	SBC PACIFIC BELL
	TEMESCAL CANYON RD	SBC PACIFIC BELL
2001	RECYCLING CENTER	Haines & Company, Inc.
	RIVERSD DISPOSAL	Haines & Company, Inc.
	USA WASTE OF CA	Haines & Company, Inc.
1996	W W TIRE	Pacific Bell
	WESTERN WASTE INDUSTRIES	Pacific Bell
1993	ls Rubbish Service	Pacific Bell
	Western Waste Industries	Pacific Bell
	W estfall M	Pacific Bell
	Serving Corona Norco	Pacific Bell
	Western Waste Industries Transfer Recycling Center	Pacific Bell

TRADEMARK CIR

755 TRADEMARK CIR

Year	Uses	Source
2013	PLAK SMACKER	Cole Information Services
2008	YOUNG PS ACQUISITION LLC	Cole Information Services
2003	TICOMP ENTERPRISES	Cole Information Services

FINDINGS

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
Magnolia Avenue	2013, 2008, 2003, 2002, 2001, 1996, 1993, 1986, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921

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
1580 Magnolia Avenue	2013, 2008, 2003, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1620 LEESON LN	2013, 2008, 2003, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1620 LEESON LN	2013, 2008, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1623 LEESON LN	2013, 2008, 2003, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1623 LEESON LN	2003, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1623 Lesson Lane	2013, 2008, 2003, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1628 LEESON LN	2013, 2008, 2003, 2002, 2001, 1996, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1650 E 6TH ST	2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1650 E 6th Street	2013, 2008, 2003, 2002, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1660 Leeson Lane	2013, 2008, 2003, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
1660 LEESON LN	2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
755 TRADEMARK CIR	2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921

FINDINGS

Address Researched	Address Not Identified in Research Source
755 Trademark Circle	2013, 2008, 2003, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
800 S TEMESCAL ST	2003, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921
800 S Temescal Street	2013, 2008, 2003, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.3
January 16, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/16/15

Site Name:
Circle City Substation
Magnolia Avenue
Corona, CA 92879

Client Name:
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

EDR Inquiry # 4184596.3

Contact: Violet Flores

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Southern California Edison were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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:

Site Name: Circle City Substation
Address: Magnolia Avenue
City, State, Zip: Corona, CA 92879
Cross Street:
P.O. # SAP 800618871
Project: Circle City Substation
Certification # 602E-498D-BACA

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 # 602E-498D-BACA

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.12
January 19, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Date EDR Searched Historical Sources:

Aerial Photography January 19, 2015

Target Property:

Magnolia Avenue
Corona, CA 92879

Year	***Scale***	***Details***	***Source***
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	USGS
1948	Aerial Photograph. Scale: 1"=500'	Flight Year: 1948	USGS
1953	Aerial Photograph. Scale: 1"=500'	Flight Year: 1953	USGS
1966	Aerial Photograph. Scale: 1"=500'	Flight Year: 1966	USGS
1975	Aerial Photograph. Scale: 1"=500'	Flight Year: 1975	USGS
1985	Aerial Photograph. Scale: 1"=500'	Flight Year: 1985	USGS
1990	Aerial Photograph. Scale: 1"=500'	Flight Year: 1990	USGS
1995	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1995	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

INQUIRY #: 4184596.12

YEAR: 1938

= 500'

N

EDR

INQUIRY #: 4184596.12

YEAR: 1948

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 1953

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 1966

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 1975

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 1985

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 1990

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 1995

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 2005

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009


1
2
INQUIRY #: 4184596.12
YEAR: 2006
= 500'
N
EDR
1 APN 107-060-008
2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 2009

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 2010

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

INQUIRY #: 4184596.12

YEAR: 2012

= 500'

N

EDR

1 APN 107-060-008

2 APN 107-060-009

Circle City Substation
Magnolia Avenue
Corona, CA 92879

Inquiry Number: 4184596.4
January 19, 2015

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

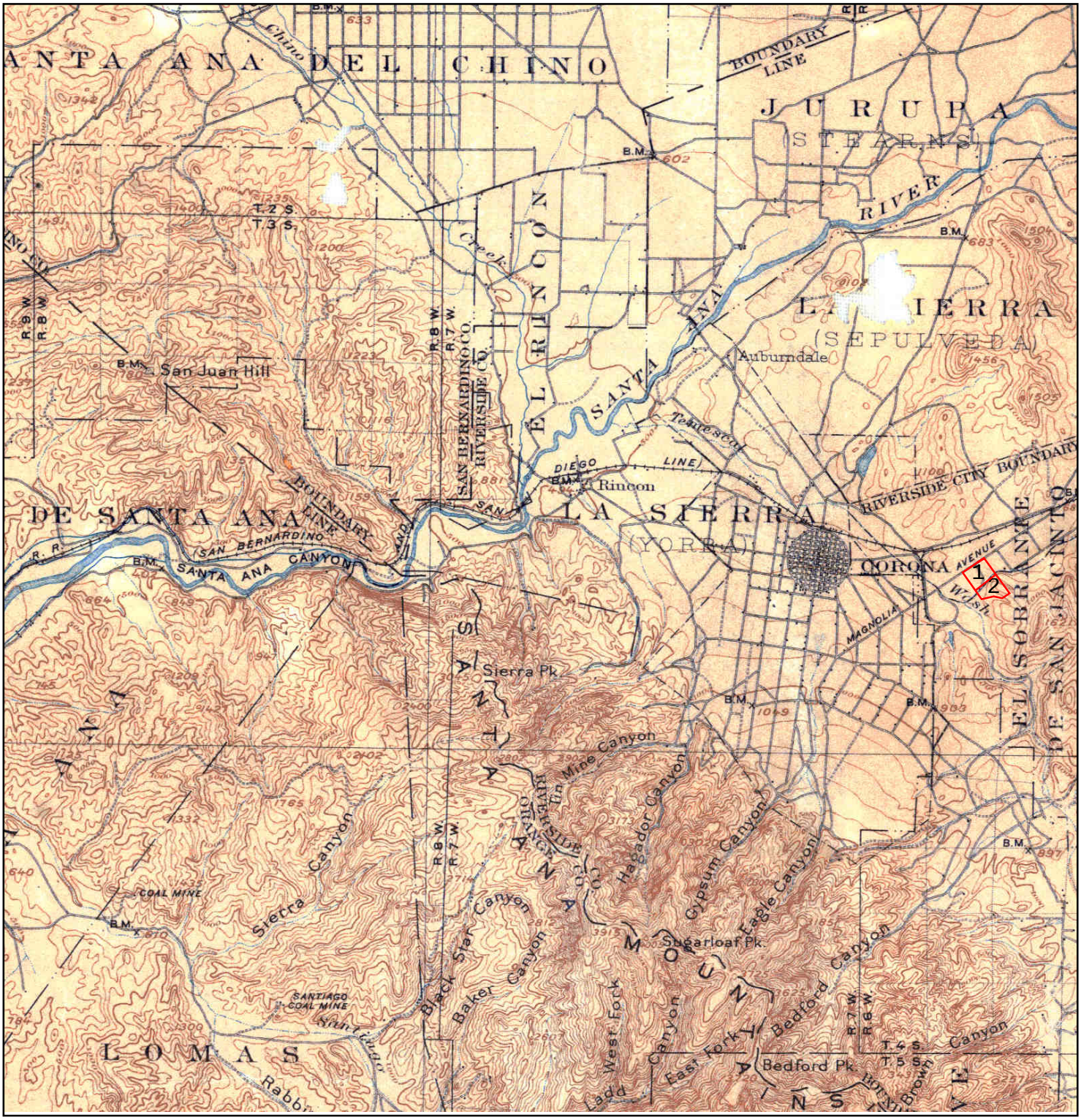
Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Historical Topographic Map

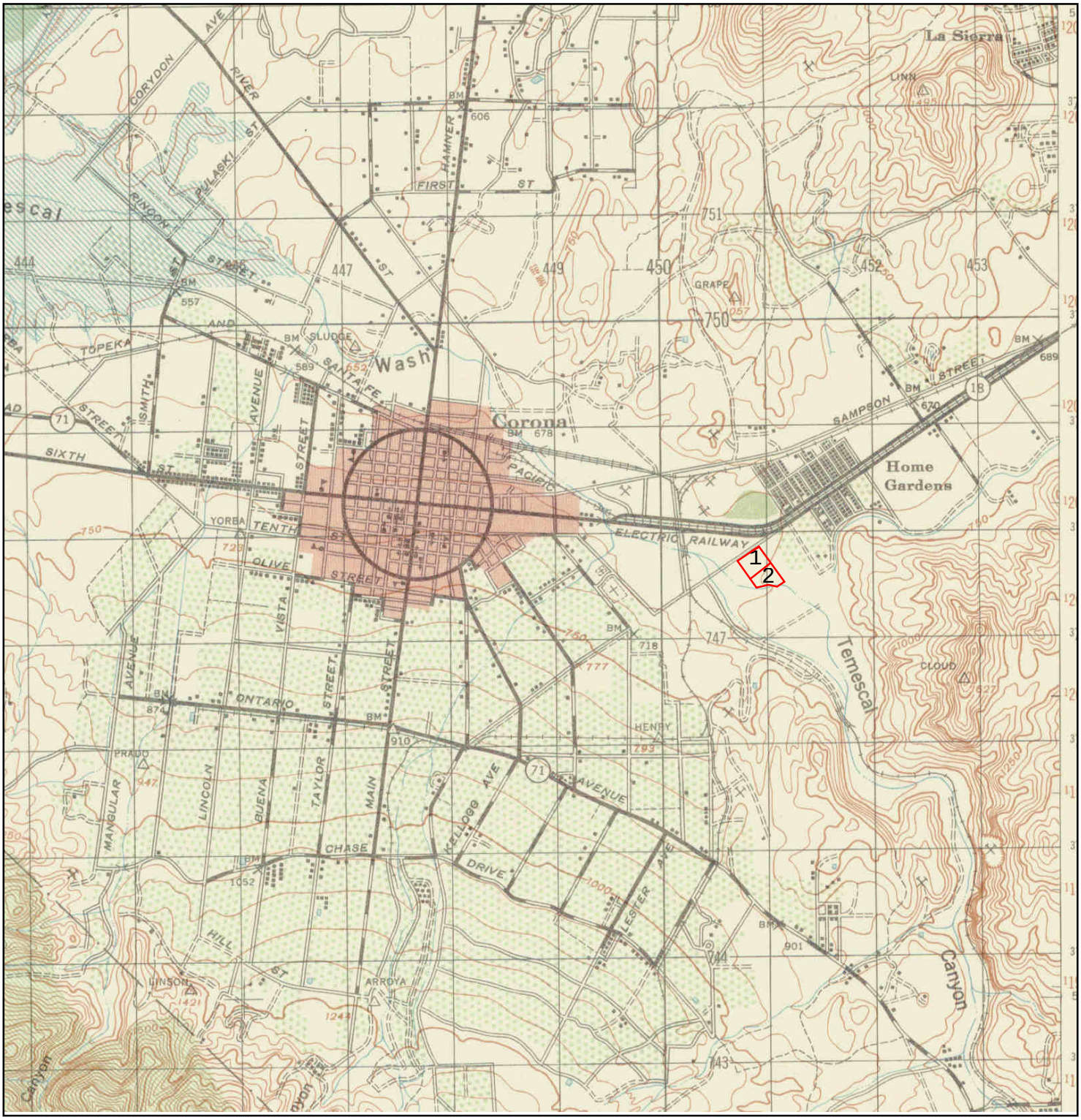
N	TARGET QUAD NAME: SOUTHERN CA SHEET 1 MAP YEAR: 1901 SERIES: 60 SCALE: 1:250000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



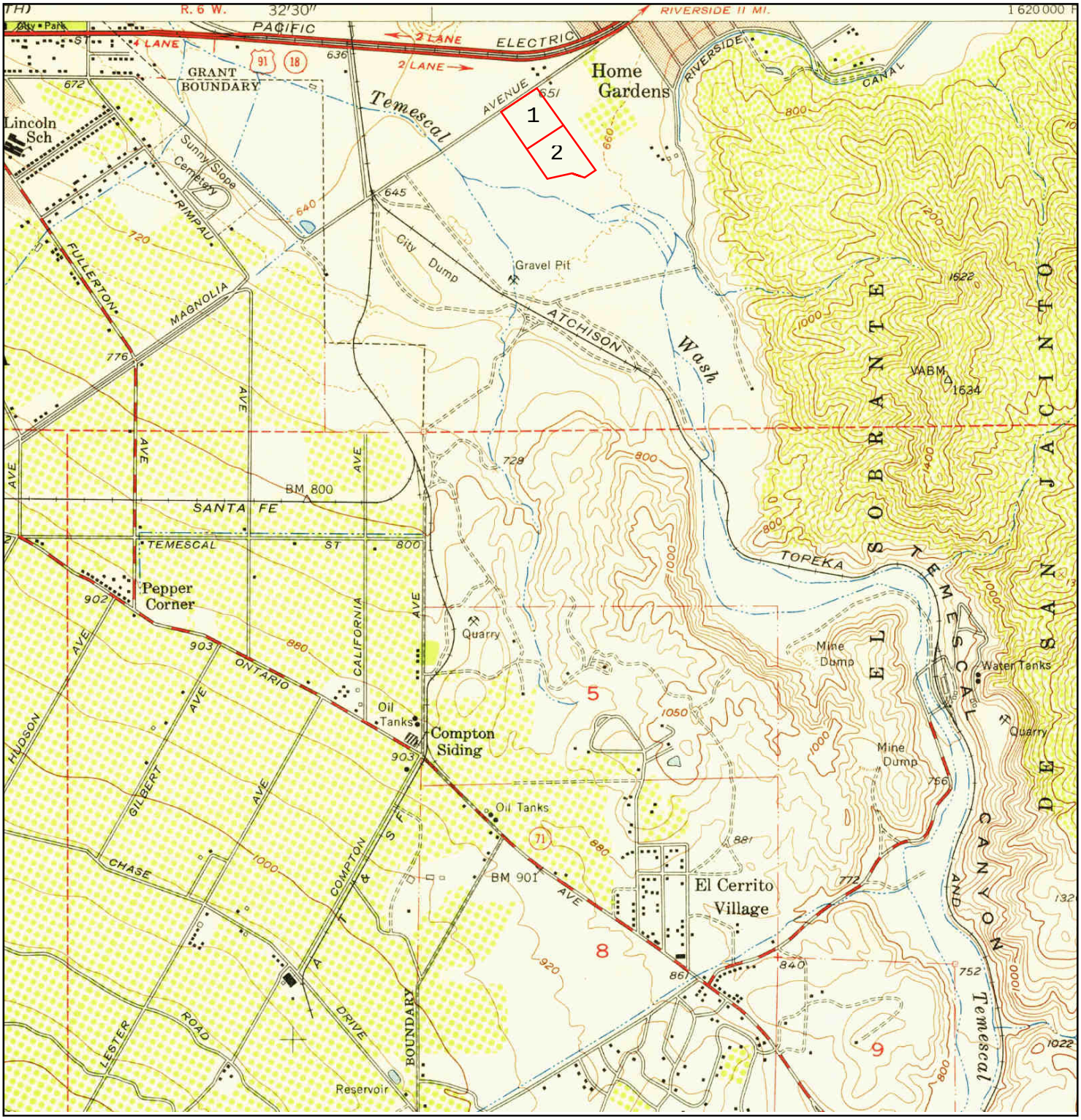
N	TARGET QUAD NAME: CORONA MAP YEAR: 1902 SERIES: 30 SCALE: 1:125000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



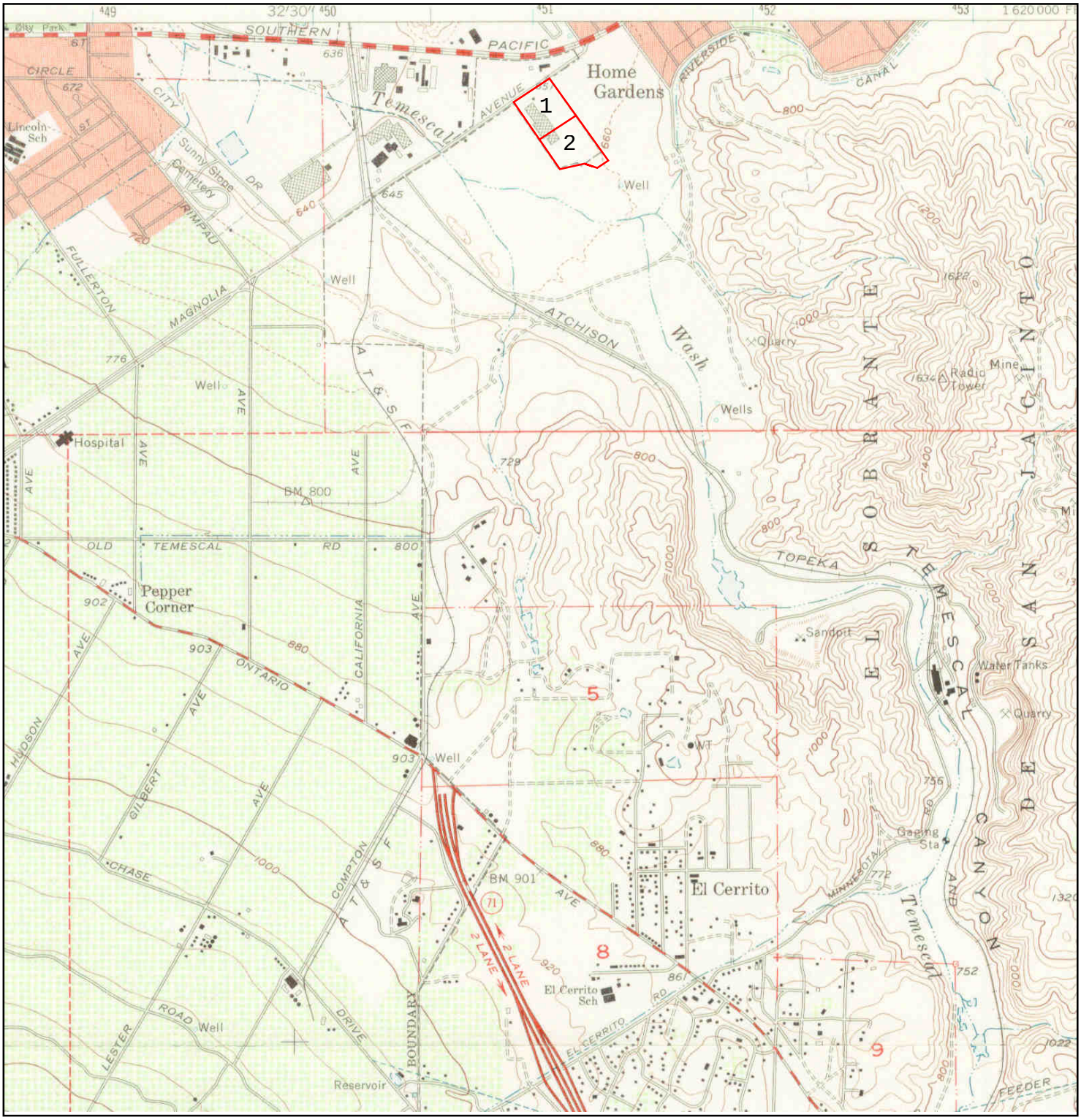
N	TARGET QUAD NAME: CORONA MAP YEAR: 1947 SERIES: 15 SCALE: 1:50000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



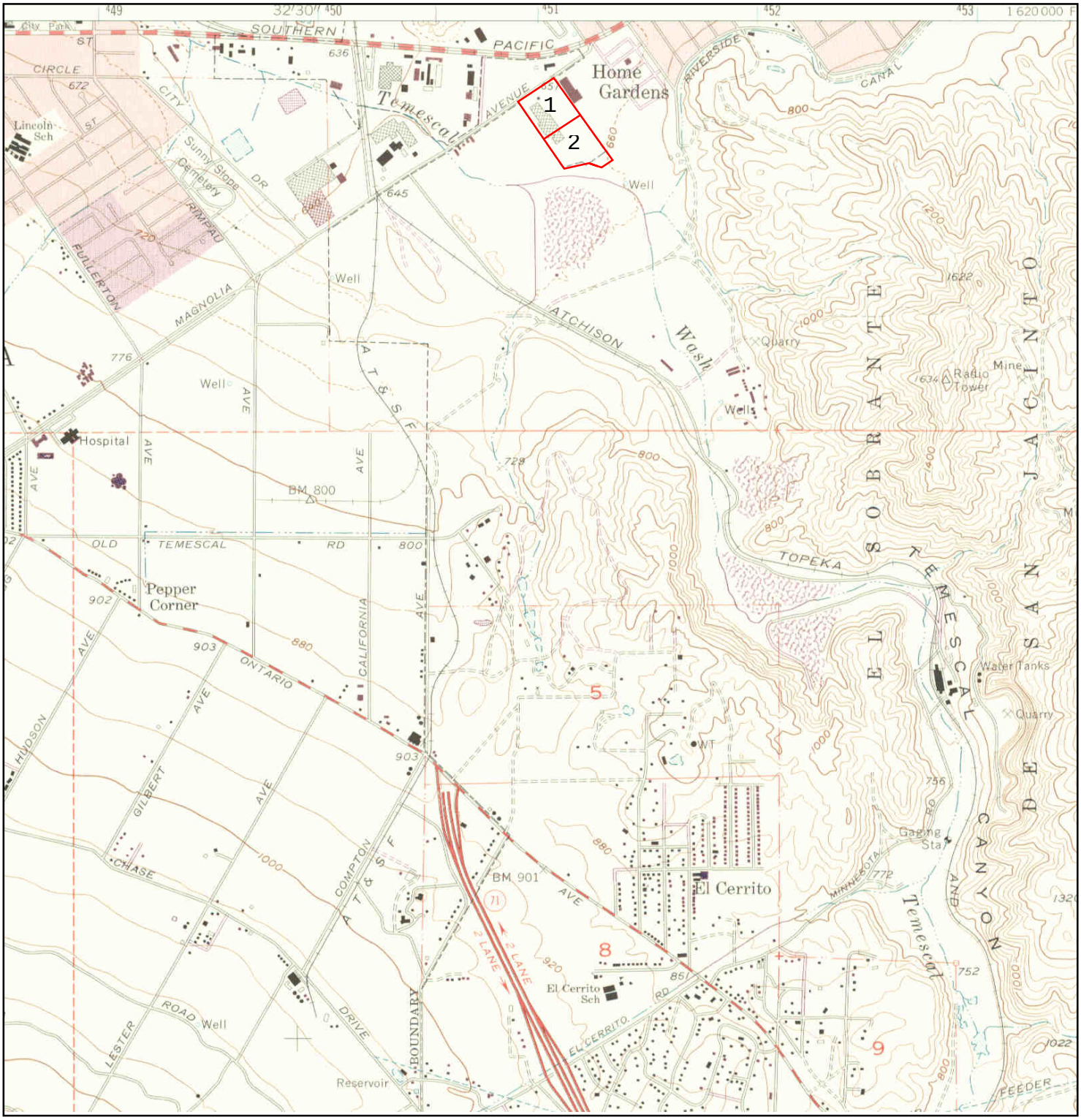
N	TARGET QUAD NAME: CORONA SOUTH MAP YEAR: 1954 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



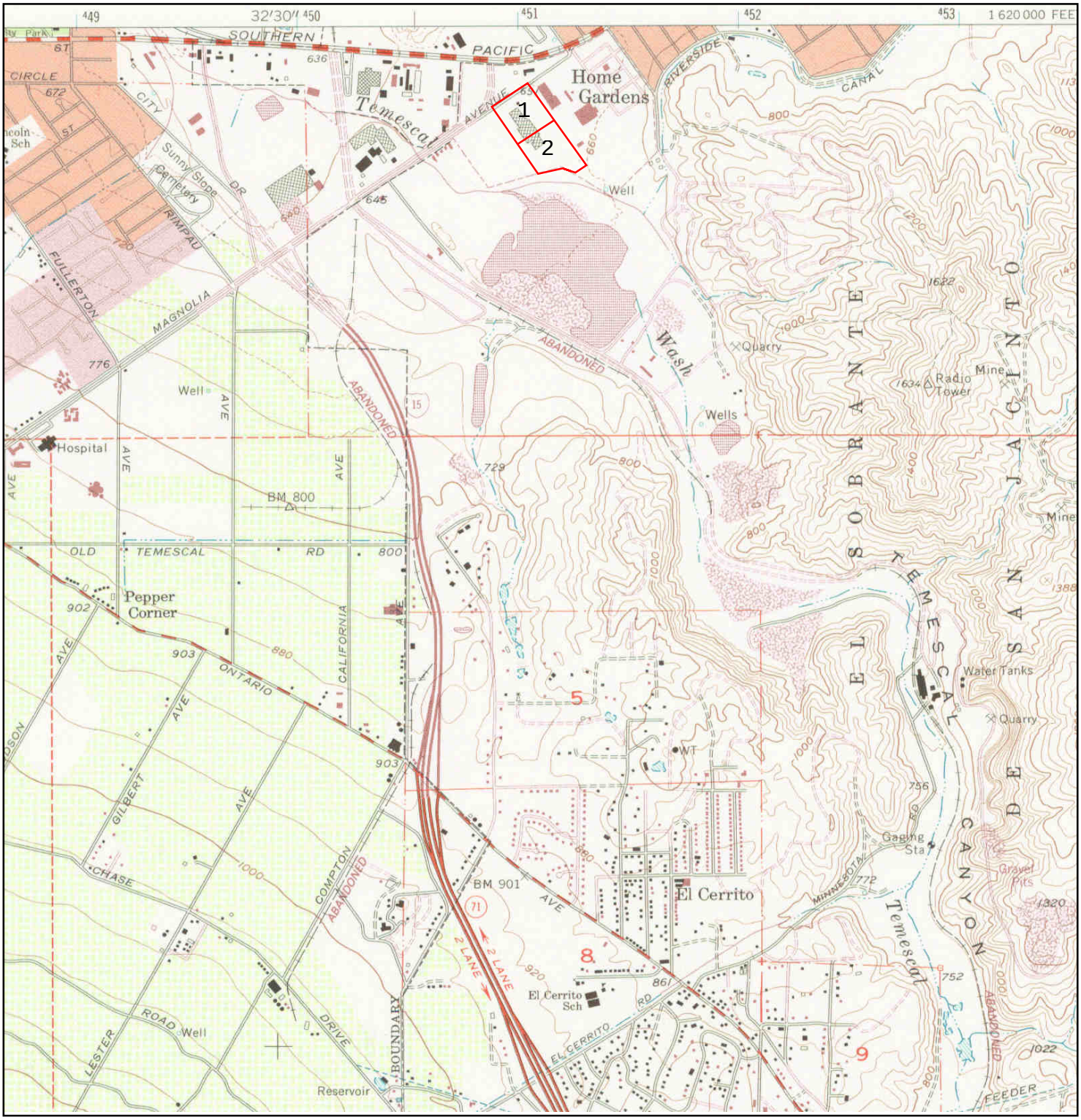
N	TARGET QUAD NAME: CORONA SOUTH MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



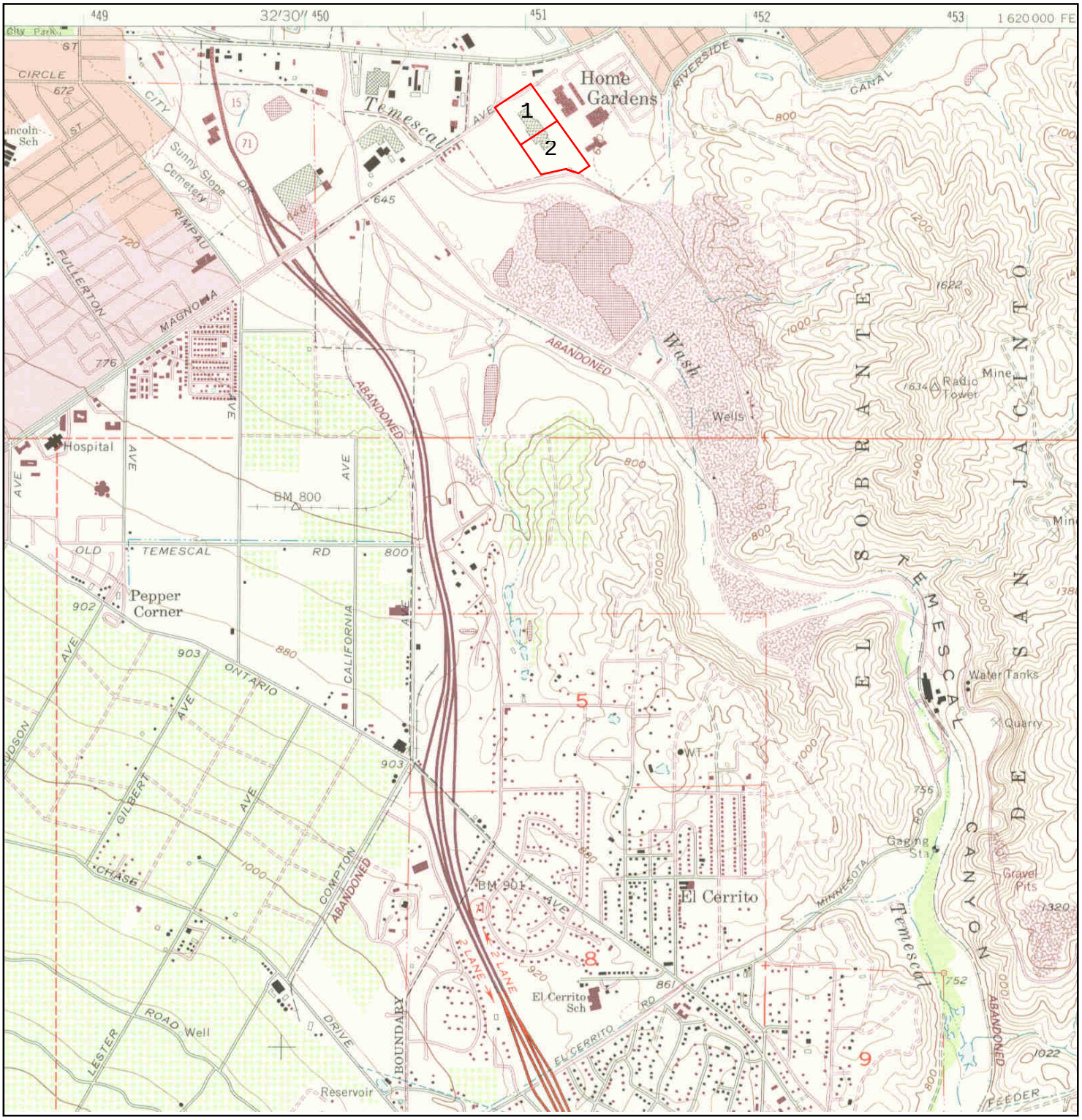
N	TARGET QUAD NAME: CORONA SOUTH MAP YEAR: 1973 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



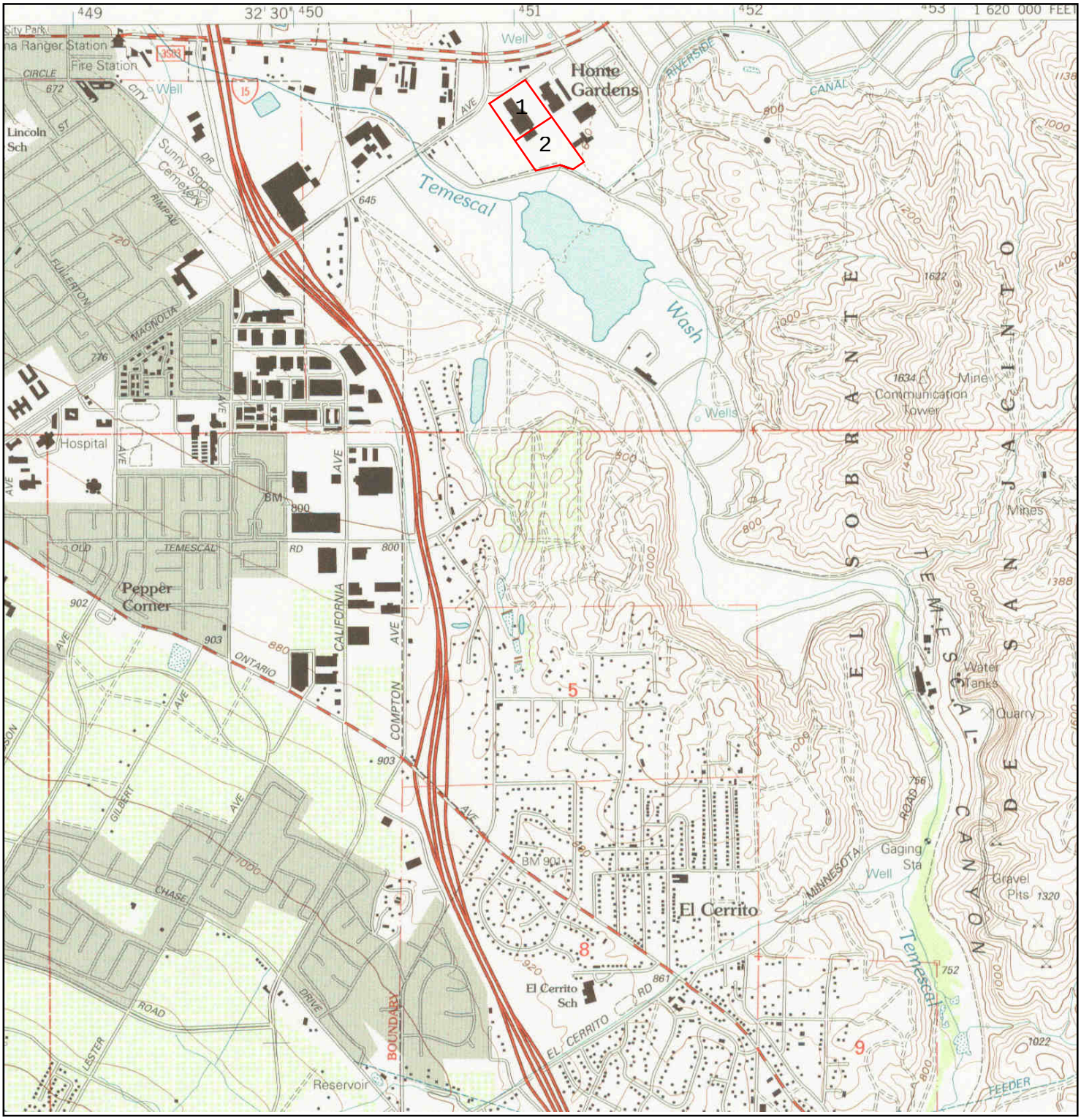
N	TARGET QUAD NAME: CORONA SOUTH MAP YEAR: 1982 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



N	TARGET QUAD NAME: CORONA SOUTH MAP YEAR: 1988 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Historical Topographic Map



N	TARGET QUAD NAME: CORONA SOUTH MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Circle City Substation ADDRESS: Magnolia Avenue Corona, CA 92879 LAT/LONG: 33.8707 / -117.5296	CLIENT: Southern California Edison CONTACT: Violet Flores INQUIRY#: 4184596.4 RESEARCH DATE: 01/19/2015 1 APN 107-060-008 2 APN 107-060-009

Appendix F

User and Owner Questionnaires

USER QUESTIONNAIRE FOR "AAI" PHASE I ESA

CURRENT SITE ADDRESS (FORMER ADDRESS, if applicable): 1620 Lecon Lane Corona CA
APNs: 107-060-008 & 107-060-009

Landowner Liability Protections, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Quality for Bona Fide Prospective Purchase, Contiguous Property Owner, or Innocent Landowner Limitations* on *CERCLA* liability ("Common Elements" Guide) issued on March 6, 2003.

In order to qualify for one of the *LLPs* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"; P.L. 107-118), the *User* (i.e. an Edison representative) must provide the following information (i.e. the institutional knowledge that is available) to the *Environmental Professional* ("*EP*"). Failure to provide this information could result in a determination that "*all appropriate inquiry*" has not been completed. Use additional paper if necessary.

1. Environmental cleanup liens that are filed or recorded again the site (40 CFR 312.25):

- Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

NO X *YES (explain)*_____

2. Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

- Are you aware of any AULs such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO X *YES (explain)*_____

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28):

- As the *User* of this ESA, do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO X *YES (explain)*_____

4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29):

- Does the purchase price being paid for this *property* reasonably reflect the value of the *property*? *YES* X
- If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

NOT APPLICABLE (I.E. THERE IS NO DIFFERENCE) X *YES (explain)*_____

5. Commonly known or reasonably ascertainable information about the *property* (40 CFR 312.30):

- Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *EP* to identify conditions indicative of releases or threatened releases? As *User*, do you know:

1. Past uses of the *property*? *NO* X *YES (explain)*_____
2. Specific chemicals that are present or once were present at the *property*? *NO* X *YES (explain)*_____
3. Spills or other chemical releases that have taken place at the *property*? *NO* X *YES (explain)*_
4. Environmental cleanups that have taken place at the *property*? *NO* X *YES (explain)*_____

6. The degree of obviousness of the presence or likely presence of contamination at the *property* and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

- As the *User* of this ESA, based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

NO X *YES (explain)* _____

Brent Schwanbeck — Completed By/Title
1-13-15 — Date
RP: MPPJ

Please return this completed form by emailing to Violet Flores, violet.flores@sce.com

PHASE I ESA OWNER QUESTIONNAIRE

Purpose: Southern California Edison (SCE) is considering the acquisition of the property described below and referred hereafter as the "Site". The purpose of this questionnaire is to facilitate the Environmental Professional to conduct an Environmental Assessment of the Site on behalf of SCE. Please answer this questionnaire to the best of your ability by providing your personal as well as the institutional knowledge of your organization regarding the Site.

Site description:

Form Completed By:

		You are:	
Name:	James Prause		
Organization:	PPII, LLC	The current owner	☒
Address:	30275 Tomas, RSM Ca 92688	The current occupant	☐
Telephone Number:	949-380-1319	Past owner	☐
Email:	jprause@princeland.com	Past occupant	☐

Signature: James Prause Date Completed: 01-14-15

Are any chemicals, such as (but not limited to) hazardous materials, pesticides, herbicides, petroleum products, or hazardous waste **Currently** or **Formerly** Brought/Used/Stored on Site?
No

Has the site been graded or fill material ever brought onto the Site?
No fill-some grading in connection with demo of building

Are or were Underground or Aboveground Storage Tanks **Currently** or **Formerly** Present On Site?
None

Are you aware of any releases of hazardous materials or petroleum products onto the ground, groundwater or surface waters of the Site?
None

Are or were there any wells, septic systems, or clarifier on the Site?:

None

Documents of Interest	**Available**	
Do You Have Any of the Following Documents of Interest With Respect to the Site:	**YES**	**NO**
Phase I Environmental Site Assessment Reports	x	
Phase II Environmental Site Assessment with Subsurface Investigation Reports		x
Environmental Audit Reports		x
Property Information Sheet (Non-Residential properties)		x
Environmental Permits (NPDES, industrial wastewater, solid waste, hazardous waste, etc.)		x
Underground or Aboveground Tank Registration		x
Hazardous Waste Generator Notices or Reports		x
Material Safety Data Sheets (for chemicals in quantities greater than 5 gallons)		x
Community Right-to-Know Plans		x
Spill Prevention and Control Plans		x
Past or Current Violation Notices at the Site		x
Environmental Liens on the Site		x
Geotechnical Investigations or Studies		x
Other Reports		x

Knowledge With Respect to the Subject Property	**Knowledge**	
Do You Possess Knowledge Regarding Any of the Following with Respect to the Subject Site:	**YES**	**NO**
Pending, Threatened, Past Litigation Involving Hazardous Materials/Petroleum Products		x
Pending, Threatened, Past Admin. Proceedings Involving Hazardous Materials/Petroleum Products		x
Government Notice of Violation of Environmental Laws		x
Government Notice of Possible Liability Involving Hazardous Materials/Petroleum Products		x

Please return this completed form by emailing to Violet Flores, violet.flores@sce.com

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

February 19, 2015

To: Mr. Brent Scharnberg
T&D Real Properties

From: Violet Flores
CEHS Environmental Engineering

SUBJECT: Phase I Environmental Site Assessment Addendum Letter
Circle City Substation Project
Corona, Riverside County, California 92879
(CEHS Project No. 2015.01.003)

Corporate Environmental Health and Safety (CEHS) Environmental Engineering prepared a Phase I Environmental Site Assessment (Phase I ESA) dated February 6, 2015 for the two adjacent properties located in Corona, Riverside County, California. The purpose of the assessment was to determine if the properties exhibited any *Recognized Environmental Conditions* (RECs), *Historical RECs* (HRECs), or *Controlled RECs* (CRECs) that should be considered involving the purchase and subsequent use of the properties for Southern California Edison's (SCE's) proposed Circle City Substation.

The results of the investigation indicated that there are no HRECS or CRECS that would affect the use or value of the subject properties. However, several potential RECs were identified during the site inspection and records review. The following summarizes the potential RECS that were identified in the Phase I ESA:

- A considerable amount of debris associated with the building demolition and from past operations of the properties was observed at the time of visit on January 23, 2015.
- A historical underground storage tank (UST) was identified on the northern subject property.

The tank location and whether or not it has been removed was unknown at the time of the Phase I ESA report preparation. Review of other historical records did not reveal additional information about the tank. However, on February 13, 2015, Mr. Brent Scharnberg of Transmission and Distribution Real Properties received documentation from the current owner regarding the removal of the UST.

CEHS Environmental Engineering reviewed the owner supplied documentation dated October 29, 1986. The review of supplied documentation confirms the removal and disposal of a 500 gallon UST located at 1620 Magnolia Avenue in Corona, California, on July 16 and 17, 1986. Soil under the tank was analyzed for Benzene-Toluene-Xylenes (BTX) and found to be free of contamination. The documentation validates that the UST can no longer be a potential REC and there is a low potential for issues associated with the historical UST to adversely affect the subject properties. A copy of the tank removal letter has been provided in Attachment A.

Although specifically excluded from the assessment, CEHS Environmental Engineering also recommended performance of an asbestos and lead-based paint survey of materials found in and around the area of the building and support structure foundations to determine the presence or

absence of these materials. CEHS Engineering received a "Notification of Demolition or Asbestos Removal" form filed for South Coast Air Quality Management District (AQMD) from the City of Corona's Building Department. The form indicated that an asbestos survey was completed prior to demolition and no asbestos was found for the building. A copy of the AQMD form has been provided in Attachment B.

A detailed discussion of the work performed and findings for the subject properties are presented in the Phase I ESA dated February 6, 2015. This addendum is complementary to the original Phase I ESA report and should be maintained along with the previous report. If you have any questions regarding this addendum, please contact the undersigned.

Best regards,

Mark Passarini, PE
Manager, Environmental Engineering
Corporate Environmental Health and Safety

Violet Flores
Environmental Engineer
Corporate Environmental Health and Safety

Attachments

A. Tank Removal Letter
B. AQMD "Notification of Demolition or Asbestos Removal" Form

Attachment A

Industrial Waste Engineering

Main Office: 225 W. Pottery
Lake Elsinore, CA 92330
(800) 325-7634
(213) 518-5201 (714) 674-0777

October 29,1986

San Valle Tile Kilns
1849 Sawtelle Blvd, Suite 610
Los Angeles, Ca 90052

Attention: Mr. Jerry Greenebaum

Dear Jerry:

Confirming our conversation on October 28. Industrial Waste Engineering (IWE) removed and disposed of a 500 gallon underground storage tank located at 1620 Magnolia Avenue in Corona, California on July 16 and 17 1986.

This tank was removed under County of Riverside permit 86-150 issued 6-23-86, City of Corona Permit number 14109 issued July 17, 1986 and City of Corona Fire Department permit number 3257 issued July 16, 1986.

This tank was washed prior to removal. The wastewater generated by the washing was taken to Demenno-Kerdoon on Uniform Hazardous Waste Manifest 84812545. The tank was taken to A.M.R., a division of National Metal and Steel, 2202 S Milliken in Ontario California where it was cut up for scrap. Soil under the tank was analyzed for BTX (Benzene-Toluene-Xylenes) by Babcock Laboratories and found to be free of contamination.

I trust this letter will serve to certify that the tank in question is no longer in the ground at 1620 Magnolia Avenue Corona. If I may be of further assistance, please do not hesitate to call upon me.

Sincerely,

Kenneth J. York
Director of Operations

State of California—Health and Welfare Agency

Department of Health Services
Toxic Substances Control Division
Sacramento, California

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD000300541 — Manifest Document No.

2. Page 1 of — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
San Vallé Tile Kilns, Inc.
1620 E, Magnolia, Corona 91720

4. Generator's Phone (714) 735-4111

A. State Manifest Document Number: 84812545

B. State Generator's ID:

5. Transporter 1 Company Name: INDUSTRIAL WASTE ENGINEERING

6. US EPA ID Number:

C. State Transporter's ID: 63613

D. Transporter's Phone: 800-223-4397

7. Transporter 2 Company Name: INLAND EMPIRE WASTE CONTROL

8. US EPA ID Number: CAD980896120

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Denenno-Kerdoon
2000 No. Alameda ST
Compton, California

10. US EPA ID Number: CAT080013352

G. State Facility's ID: CAT080013352

H. Facility's Phone: 537-7100

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. UN 1993 WASTE FLAMMABLE LIQUID NOS	001	T.T	100	G	343
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: A. GAS, 7090 WATER 3090

K. Handling Codes for Wastes Listed Above: 01

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Judith Z. Delano		7 16 86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
TIM ALBRIGHT		07 16 86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
JOEL O. LANDAZABAL	Joel O. Landazabal	7 17 86

84812545

DHS 8022 A (11/84)
(EPA 8700-22)

YELLOW: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

11/7/85 Y 86

84 89641

Attachment B

South Coast Air Quality Management District (www.aqmd.gov)
21865 Copley Drive, Diamond Bar, CA 91765-4182 Phone: (909)396-2336

Rule 1403 Form

Notification of Demolition or Asbestos Removal

[1] Fax these type of Notification Forms to **(909)396-3342** and mail the originals within 48 hrs

Mail Form and Fee To:
SCAQMD
Asbestos Notification File # 55641
Los Angeles, CA 90074-5641

Project Type	DEMOLITION ☑	DEMOLITION (Fire Training) ☐	ASBESTOS REMOVAL (Renovation) ☐	PLANNED RENO (Annual) ☐	[1] PROCEDURE 4 PLAN ☐	[1] PROCEDURE 5 PLAN ☐	**Project Urgency**	EMERGENCY ☐	ORDERED ☐
Notification Type	ORIGINAL ☐	[1] CANCELLATION ☐	[1] REVISION AMOUNT ☐	[1] REVISION DATES ☑	[1] REVISION OTHER ☐	Please provide original date 07/01/2014			

Contractor Information: Notifications should be submitted by the contractor performing the project

CSLB License 367259 | Cal. OSHA REG | AQMD ID 053486 | CHECK | FEE | DATE 07/18/2014 | PROJECT # 1006

Company Name BHL Industries, Inc. | List Site Supervisor(s) | Phone

Address 11201 Santa Fe Ave | Philip French | (310) 537-6142

City Lynwood | State CA | Zip 90262

Completed by Stuart H. Lipsett | Phone (310) 537-6142

Site Information: Copies of this notification and the CAC asbestos survey report must be kept at the worksite during this project

Site Name 1620 LEESON LANE

Site Address 1620 LEESON LANE | Cross Street

Site City CORONA | State CA | Zip 92879 | County

Site Owner PPII,LLC | Contact TIMOTHY HAWKE | Phone (951) 280-1733

Owner Address 30275 TOMAS | City RANCHO MARGARITA | State CA | Zip 92688

Describe Work Building Demolition

Describe Work Location (s) 1620 Leeson Lane

Demolition Project Start Date 07/28/2014 | Demolition Project End Date 09/28/2014 | Project Work Shift Day ◉ Swing ○ Night ○

[2] ***BUILDING SIZE in sq ft*** 135000.00 | Number of Floors | Building Age (Years) | Number of Buildings or Dwelling Units

Building Prior/ Present Use	SCHOOL ☐	HOSPITAL ☐	CONDO/ APT ☐	PUBLIC BLDG. ☐	INDUSTRIAL ☑	COMMERCIAL ☐	OFFICE ☐	UNI/COLLEGE ☐	HOUSE ☐	SHIP ☐	OTHER

Required Building Information	ASBESTOS SURVEY?	ASBESTOS FOUND?	ASBESTOS REMOVED?	BUILDING TO BE DEMOLISHED?
	YES ◉ NO ○	YES ○ NO ◉	YES ○ NO ◉	YES ◉ NO ○

Asbestos Information: Do not provide this information in demolition notifications, see pg 2

Asbestos Amount to be Removed in sq ft

FRIABLE	CLASS I	CLASS II	[2] ***TOTAL AMOUNT***
			0.00

Amount of Each Type of Asbestos in sq ft

ACOUSTIC CEILING	LINOLEUM	INSULATION	FIRE PROOFING	DUCTING	STUCCO	MASTIC	FLOOR TILES (VAT)

DRYWALL	PLASTER	TRANSITE	ROOFING	OTHER	PLEASE DESCRIBE OTHER TYPE OF ASBESTOS:

Asbestos Removal From SURFACES ☐ PIPES ☐ COMPONENTS ☐

Asbestos Detection Procedures: Check the procedures and analytical methods used to determine the presence of asbestos in the building. See *Survey Checklist*

SURVEY ☐ BULK SAMPLING ☐ INSPECTION ☐ CAC ASSUMED AS ASBESTOS-PACM ☐ PLM ☐ PCM ☐ TEM ☐

Controls: Check the combination of Rule 1403 procedures used to control asbestos emissions. (Procedure 4 and 5 submit plans for AQMD prior approval)

PROCEDURE NUMBER 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Emergency Asbestos Removal: Check the sudden unexpected event and attach a letter from the person affected by the emergency explaining how this event caused unsafe conditions, equipment damage or unreasonable financial burden. For disturbed/damaged asbestos materials see *Procedure 5 Guidelines*.

FIRE	FLOOD	WATER DAMAGE	EARTHQUAKE	NUISANCE	VANDALISM	HEALTH/SAFETY	FINANCIAL BURDEN	EQUIPMENT DAMAGE	OTHER
☐	☐	☐	☐	☐	☐	☐	☐	☐	

Name of Person Declaring/ Authorizing the Emergency | Phone | Date of Emergency | Hour of Emergency

AQMD USE ONLY: SCREENED BY | RECEIVED | POSTMARKED | ENTERED BY | NOTIFICATION #

[2] Fees are per Notification and vary according to the [2]***TOTAL AMOUNT*** of asbestos removed or the demolition [2]***BUILDING SIZE***

South Coast Air Quality Management District (www.aqmd.gov)
21865 Copley Drive, Diamond Bar, CA 91765-4182 Phone: (909)396-2336

Rule 1403 Form
Notification of Demolition or Asbestos Removal

Mail Form and Fee To:
SCAQMD
Asbestos Notification File # 55641
Los Angeles, CA 90074-5641

Demolition Information: All asbestos containing materials must be removed *prior* to any demolition activity

Asbestos Removal Company Name _____ Date of Asbestos Removal _____

Check work practices to prevent, suppress and contain dust, and dust controls to be use at the demolition site

SPRAY WATER ☐ EXIT GRATES ☐ TARP TRUCKS/BINS ☐ FENCE SCREENS ☐ STONE TRUCK PADS ☐ TIRE WASHING ☐ SOIL STABILIZERS ☐ OTHER _____

Contingency Demolition Plan: Check actions to be followed if unexpected asbestos is found during demolition or asbestos material becomes disturbed, crumbled, pulverized or reduced to powder. Disturbed/Damaged ACM requires a Procedure 5 Plan Approval prior to clean-up (See *Procedure 5 Guidelines*)

STOP WORK ☐ NOTIFY OWNER ☐ SECURE ☐ STABILIZE ☐ POST SIGNS ☐ ISOLATE WORK AREA ☐ SURVEY ☐ CHARACTERIZE WASTE ☐ OTHER _____

Ordered Demolition: Attach a copy of the agency order

Agency Name _____ Phone _____ Date of Order _____

Authorizing Person _____ Title _____ Date Ordered to Begin _____

Waste Information

WASTE TRANSPORTER #1 BHL Industries, Inc.
Address 11201 Santa Fe Ave
City Lynwood State CA Zip 90262

WASTE TRANSPORTER #2 _____
Address _____
City _____ State _____ Zip _____

WASTE STORAGE SITE _____
Address _____
City _____ State _____ Zip _____

LANDFILL _____
Address _____
City _____ State _____ Zip _____

Contractor Certification: All contractors or owner/operator submitting this notification must sign this form

I certify that an individual trained in the provisions of regulations AQMD *Rule 1403* and the *Asbestos NESHAP Title 40 CFR Part 61 Subpart M* will be on site during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours. I hereby certify that all of the information contained herein and information submitted with this notification is true and correct.

Company Name BHL Industries, Inc. Title of Owner/Operator President

Print Name of Owner/Operator Stuart H. Lipsett Signature of Owner/Operator _____ Date 07/18/2014

Notification Fee: No notifications shall be considered received pursuant to *Rule 1403*, unless it is accompanied by the required payment (*Rule 301*, Table VI). Please make check payable to "SCAQMD". Fees are per notification and vary according to the [2]***TOTAL AMOUNT*** of asbestos removed or the demolition [2]***BUILDING SIZE***. The Revision Amount fee is the difference between the new Project Size Fee category and the original Project Size Fee category (See *Fee Information*)

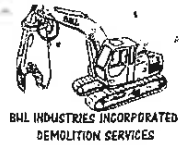
Project Size Fee: $ 0.00
Additional Fee: $ 57.18
Total Fee Due: $ 57.18

Fee Based on Project Size (sq ft)			Additional Fees		
1,000 or less	$ 57.18	☐	Special Handling Fee	$ 57.18	☐
1,001 to 5,000	$ 174.83	☐	Revision to Notification	$ 57.18	☑
5,001 to 10,000	$ 409.26	☐	Returned Check Fee	$ 25.00	☐
10,001 to 50,000	$ 641.73	☐	Planned Renovation	$ 641.73	☐
50,001 to 100,000	$ 930.03	☐	Procedure 4 or 5 Plan	$ 641.73	☐
100,001 or more	$ 1,550.04	☐	Expedited 4 or 5 Plan	$ 320.86	☐

Attention

Keep Three (3) Copies of This Notification Form for your records, **to post at the worksite**, and to obtain a city demolition permit. See *California Health and Safety Code 19827.5* that requires that you provide a copy of the demolition notification to Building and Safety before issuance of a demolition permit. For questions call 909-396-2336. Forms, instructions and *Rule 1403* can be obtained from the AQMD website at *http://www.aqmd.gov*. Please mail this signed original notification form, fee, and any attachments to SCAQMD Asbestos Notification File # 55641 Los Angeles, CA 90074-5641. Mailing saves time, money and reduces traffic and air pollution.

Project # 1006



B H L INDUSTRIES, INCORPORATED
11201 SANTA FE AVENUE
LYNWOOD, CA 90262
(310) 537-6142

Wells Fargo Bank, N.A.
16-24/1220

027559

7/18/2014

PAY TO THE ORDER OF *S C A Q M D*

$*57.18

*Fifty-Seven and 18/100**********

DOLLARS

S C A Q M D
Asbestos Notifications
File #55641
Los Angeles, CA 90074-5641

MEMO *1620 Leeson Lane, Corona*

[redacted]

B H L INDUSTRIES, INCORPORATED

027559

S C A Q M D

Date	Type	Reference	Original Amt.	Balance Due	7/18/2014 Discount	Payment
7/18/2014	Bill		57.18	57.18		57.18
					Check Amount	57.18

Wells Fargo (general *1620 Leeson Lane, Corona* *57.18*

B H L INDUSTRIES, INCORPORATED

027559

S C A Q M D

Date	Type	Reference	Original Amt.	Balance Due	7/18/2014 Discount	Payment
7/18/2014	Bill		57.18	57.18		57.18
					Check Amount	57.18

Wells Fargo (general *1620 Leeson Lane, Corona* *57.18*

4.9 Hydrology and Water Quality

This section describes the hydrology and water quality in the area of the Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project (Proposed Project), as well as the potential impacts and alternatives. With implementation of best management practices (BMPs) and adherence to the Proposed Project's General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ) and the associated Storm Water Pollution Prevention Plan (SWPPP), impacts would be less than significant.

4.9.1 Environmental Setting

4.9.1.1 Surface Water

The Proposed Project area is located within the jurisdiction of the Santa Ana Regional Water Quality Control Board (RWQCB). The Santa Ana Region (Hydrologic Basin No. 801.00)—which encompasses approximately 2,800 square miles—is the smallest, but most densely populated, of the nine RWQCBs in California. The Santa Ana Region contains a wide variety of water resources, including mountain streams and lakes, coastal estuaries and beaches, rivers, and intensively used and managed groundwater basins. The area has a typical Mediterranean climate with cool, wet winters and warm, dry summers. Most of the annual rainfall in the Proposed Project vicinity occurs during the month of February, with an average annual rainfall in the City of Corona of 12 inches per year.

Surface drainage in the Proposed Project area is generally southward, from the San Gabriel Mountains and San Bernardino Mountains toward the Santa Ana River and the Prado Flood Control Basin. The main hydrologic feature in the Proposed Project area is Reach 3 of the Middle Santa Ana River. The Proposed Project area is within the Santa Ana River Corridor in the southern portion of the City of Eastvale. Cucamonga Creek, Mill Creek, Temescal Wash, and four unnamed drainages drain to the Santa Ana River and would also be crossed by the Proposed Project alignment. Lake Mathews is approximately 4.2 miles east of the proposed Circle City Substation site, Prado Lake is located approximately 1.8 miles west of the proposed Mira Loma-Jefferson 66 Kilovolt (kV) Subtransmission Line route, and Lake Norconian is approximately 1.0 mile east of the proposed Mira Loma-Jefferson 66 Kilovolt (kV) Subtransmission Line Route. Hydrologic features in the Proposed Project area are depicted on Figure 4.9-1: Hydrologic Features Map (Source Line Route) and Figure 4.9-2: Hydrologic Features Map (Subtransmission Line).

The Proposed Project area is within the Chino (Hydrologic Basin No. 801.21) and Temescal (Hydrologic Basin No. 801.25) sub-watersheds of the Middle Santa Ana River Watershed (Hydrologic Basin No. 801.20). A portion of the Mira Loma-Jefferson 66 kV Subtransmission Line Route would be located north of the Prado Flood Control Basin and would lie within the Chino sub-watershed. The proposed Circle City Substation, Source Line Route, and the portion of the Mira Loma-Jefferson 66 kV Subtransmission Line Route south of the Prado Flood Control Basin would be located in the Temescal sub-watershed. Land uses in the Middle Santa Ana River Watershed include urban, agriculture, and open space. Although originally developed as an agricultural area, the watershed is being steadily urbanized.

Water quality concerns for the Middle Santa Ana River Watershed include high levels of total dissolved solids (TDS) and total inorganic nitrogen, as well as elevated bacterial levels in surface waters. Table 4.9-1: Section 303(d)-Listed Waterbodies in the Proposed Project Area provides waterbodies in the Proposed Project area that are currently on the Section 303(d) list of impaired waterbodies, as well as their target Total Maximum Daily Load (TMDL) completion dates. In addition to the pollutants/stressors listed in Table 4.9-1: Section 303(d)-Listed Waterbodies in the Proposed Project Area, Chino Creek (Reach 1), Mill Creek (Prado Area), and the Middle Santa Ana River (Reach 3) were included on the Section 303(d) list of impaired waterbodies due to high densities of pathogens. In addition, Cucamonga Creek (Reach 1) was also listed for coliform bacteria. These pollutants/stressors have since been removed from the Section 303(d) list of impaired waterbodies required for reporting after TMDLs were approved by the United States (U.S.) Environmental Protection Agency (EPA) for the impaired waterbodies in 2007.

Table 4.9-1: Section 303(d)-Listed Waterbodies in the Proposed Project Area

Waterbody	Approximate Distance from the Proposed Project[1]	Pollutants/Stressors	Proposed TMDL Completion Date
Chino Creek, Reach 1	1.7 miles	Nutrients and chemical oxygen demand (COD)	2019 (Nutrients) 2021 (COD)
Cucamonga Creek, Reach 1	Spanned	Cadmium, copper, lead, and zinc	2021
Mill Creek, Prado Area	0.94 mile	Nutrients and total suspended solids	2019
Santa Ana River, Reach 3	Crossed	Lead and copper	2021
Temescal Creek, Reach 1	Spanned	pH	2021

Source: State Water Resources Control Board (SWRCB), 2010

4.9.1.2 Floodplains

As depicted in Figure 4.9-1: Hydrologic Features Map (Source Line Route) and Figure 4.9-2: Hydrologic Features Map (Subtransmission Line), the Proposed Project would be located within several 100-year flood hazard zones—the largest of which is the Santa Ana River floodplain zone. The Mira Loma-Jefferson 66 kV Subtransmission Line Route would span the Santa Ana River within the Prado Flood Control Basin. The Prado Dam, which is located approximately 3.2 miles downstream of the Proposed Project, regulates the water supply between the upper and lower portions of the Santa Ana River, and the floodplain behind Prado Dam has unique hydraulic characteristics. Chino Creek, Cucamonga Creek (which flows into Mill Creek), and Temescal Creek join the Santa Ana River behind the dam. Surface and subsurface flows in the area are significantly affected by flood control operations at the dam, and by the combination of

[1] The distance to these 303(d)-listed waterbodies was measured from the Proposed Source Line Route and the Proposed Mira Loma-Jefferson 66 kV Subtransmission Line.

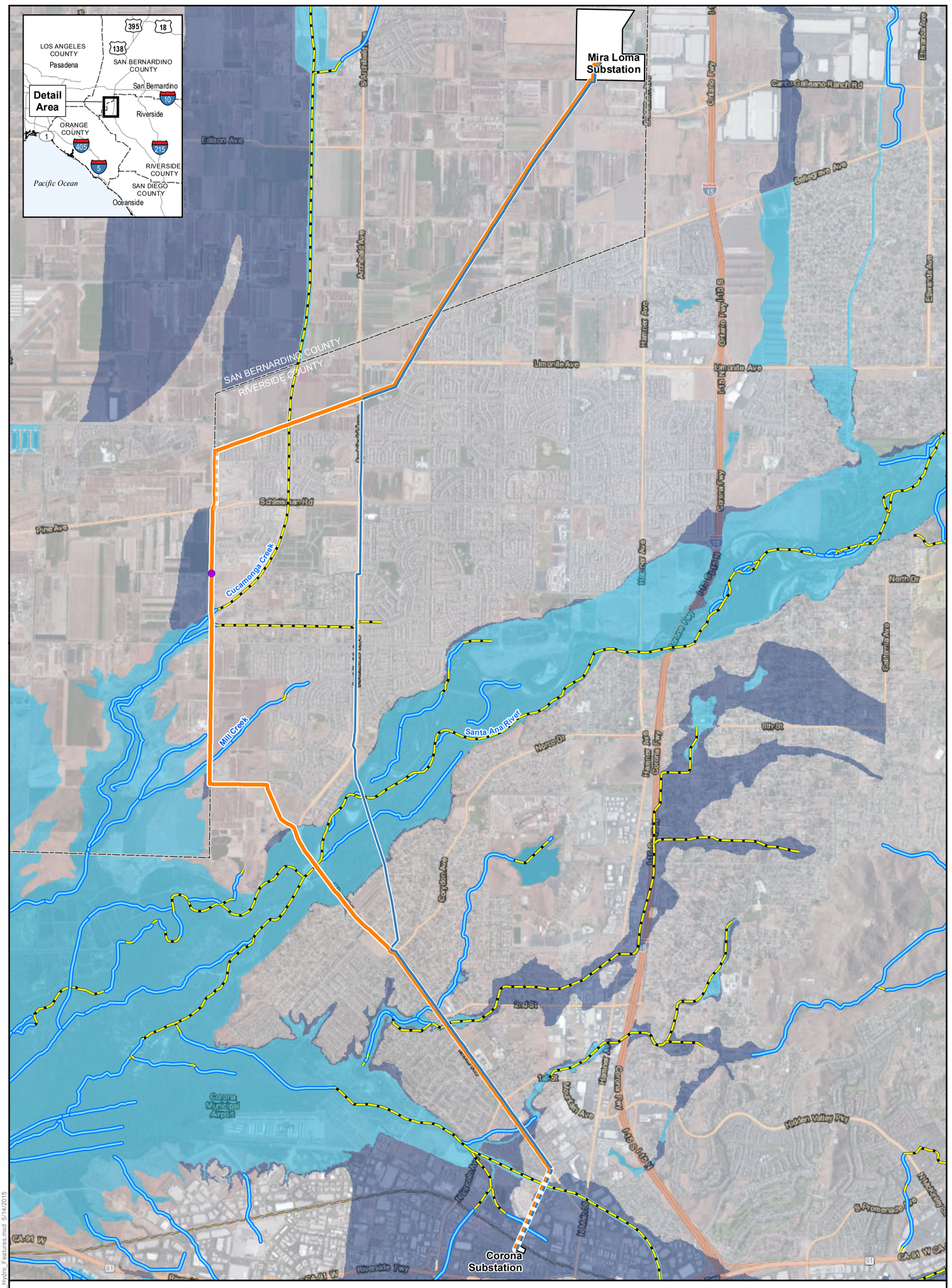


Figure 4.9-2: Hydrologic Features Map (Subtransmission Line)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

Mira Loma-Jefferson 66 kV Subtransmission Line

- Subtransmission Line Route Alternative 1 - Overhead (Proposed)
- Subtransmission Line Route Alternative 1 - Underground (Proposed)
- Subtransmission Line Route Alternative 2 - Underground*
- Subtransmission Line Route Alternative 3 - Overhead
- Subtransmission Line Route Alternative 3 - Underground
- Subtransmission Line - Underground Crossing

*Note: Except for the underground portion indicated, Alternative Route 2 would utilize the same route and construction techniques as the Proposed Route.

- 100-Year Flood Hazard
- 500-Year Flood Hazard
- Artificial Water Feature
- Blue-Line Drainage
- Substation
- County Boundary

Sources: FEMA, 2011; Insignia, 2015 SCE, 2015; USGS, 2011

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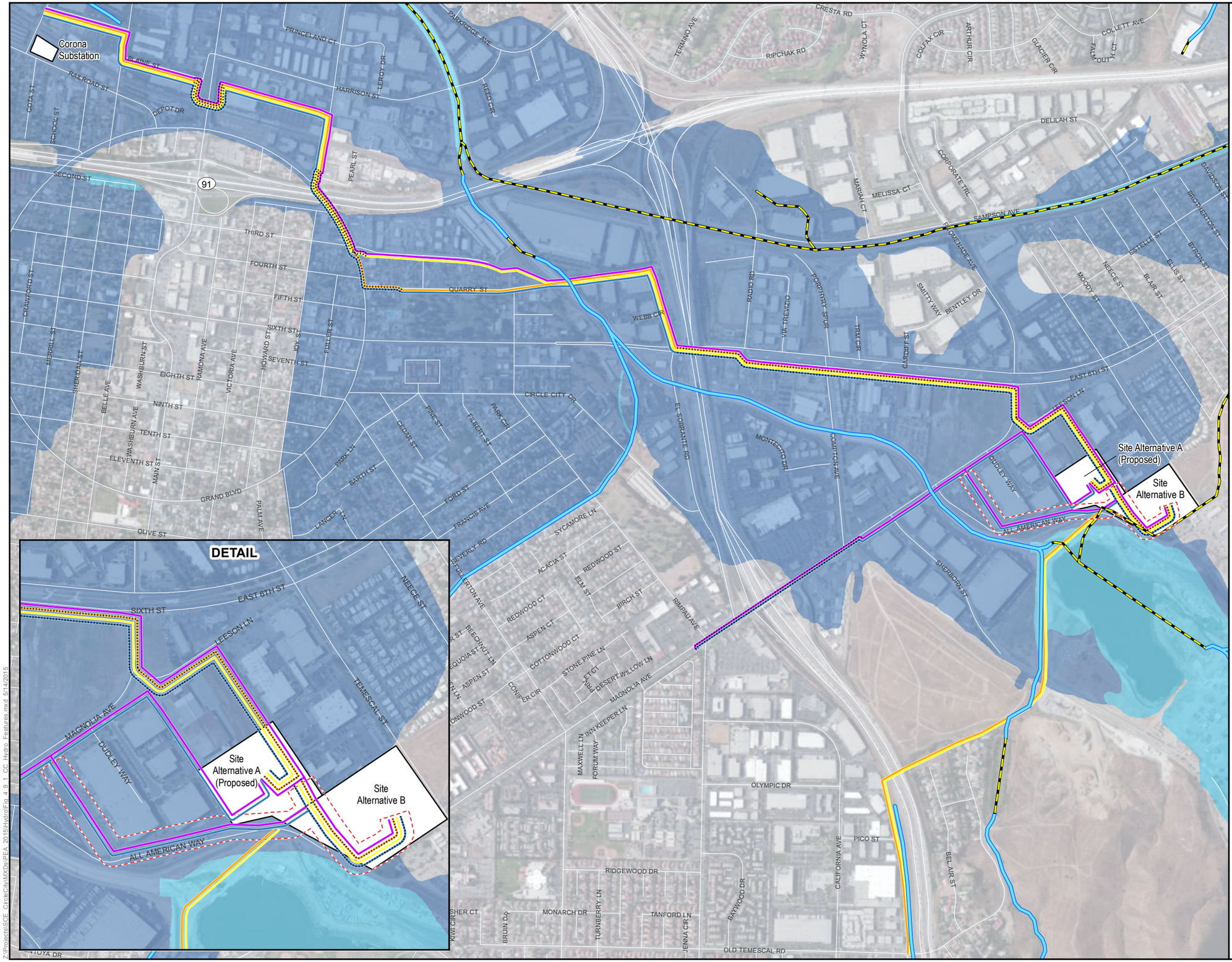
Figure 4.9-1: Hydrologic Features Map (Source Line Route)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project



- Substation
- Undergrounding
- Source Line Route Alternative 1 (Proposed)
- Source Line Route Alternative 2
- Source Line Route Alternative 3
- Source Line Route Alternative 4
- Source Line Route Alternative Extensions to Substation Site Alternative B
- Artificial Water Feature
- Blue-Line Drainage
- 100-Year Flood Hazard
- 500-Year Flood Hazard

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Sources: Insignia, 2015; SCE, 2015

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a shallow groundwater table and thin aquifer. The tendency for surface waters to percolate behind the dam is dependent on how the dam is operated. In addition, there is little or no groundwater storage in the floodplain behind the dam. The foot of Prado Dam extends to bedrock, and subsurface flows cannot pass through the barrier created by the dam and the surrounding hills. As a result, any groundwater in storage is forced to the surface.

In addition to flooding potential within a flood hazard area, flooding can also occur from dam failure, which is referred to as "dam inundation." The Proposed Project would be located within the Diamond Valley (i.e., East Dam, West Dam, and Saddle Dam), Lake Mathews, Lee Lake, Harrison Street, and Bear Valley dam inundation areas.

4.9.1.3 Groundwater

The Proposed Project area is located in the Upper Santa Ana Valley Groundwater Basin (802), which is divided into nine subbasins. Several portions of the Proposed Project would be located in the Temescal Groundwater Subbasin (802.09), including the following components:

- the proposed Circle City Substation,
- the proposed Source Line Route, and
- the portion of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route that runs from the Santa Ana River to Corona Substation.

The portion of the Mira Loma-Jefferson 66 kV Subtransmission Line Route that runs north of the Santa Ana River would be located in the Chino Groundwater Subbasin (802.01).

Groundwater occurrence in the Temescal Subbasin encompasses an area of approximately 26 square miles within an unconfined aquifer. Groundwater flow occurs from the mountains to the center of the basin and northeast toward the Santa Ana River. Depth to groundwater within the Temescal Subbasin is generally between 130 and 200 feet below ground surface. According to the Draft Geotechnical Investigation Report for Circle City 66 kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report in Section 4.6 Geology and Soils), soil borings taken to a depth of 26 feet did not encounter any groundwater. Historically, use of the groundwater in the Temescal Subbasin was restricted due to elevated concentrations of TDS and nitrate. With the completion of the Temescal Desalter in 2001, which removes TDS, the utility of groundwater in the Temescal Subbasin has improved. However, groundwater encountered during construction may still contain high levels of TDS.

To the north of the Santa Ana River, the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would enter the Chino Groundwater Subbasin. This subbasin is a major water source for the basin's cities, industry, and remaining agriculture as it encompasses an area of approximately 220 square miles and stores 5 million to 6 million acre-feet of groundwater. Groundwater in the Chino Groundwater Subbasin has elevated nitrate concentrations, which are partly derived from the area's dairy industry, as well as elevated TDS levels. In the vicinity of the Proposed Project, the Chino Groundwater Subbasin has a saturated, shallow aquifer system that is found in the upper 200 to 300 feet of soil. As previously described, the groundwater table in the Prado Flood Control Basin is shallow as a result of the Prado Dam.

4.9.2 Regulatory Setting

4.9.2.1 Federal

Clean Water Act

The Clean Water Act (CWA) (Title 33, Section 1251 et seq. of the U.S. Code [U.S.C.]), formerly the Federal Water Pollution Control Act of 1972, was enacted with the intent of restoring and maintaining the chemical, physical, and biological integrity of waters of the U.S. The CWA requires the state of California to set standards to protect, maintain, and restore water quality through the regulation of point-source and certain non-point-source discharges to surface water.

Section 404

Section 404 of the CWA authorizes the U.S. Army Corps of Engineers (USACE) to regulate the discharge of dredged or fill material to waters of the U.S., including wetlands (33 U.S.C. § 1344). The USACE issues site-specific individual or general (i.e., Nationwide) permits for such discharges.

Section 401

All discharges to surface waters or groundwater within the state of California, which generally encompasses waters of the U.S. (as defined by the USACE), are currently subject to RWQCB regulatory jurisdiction. Under Section 401 of the CWA, any applicant for a federal license or permit to conduct any activity that may result in any discharge into navigable waters must provide the licensing or permitting agency with a certification that the discharge would comply with the applicable CWA provisions (33 U.S.C. § 1341). If a federal permit is required, such as a USACE Section 404 Nationwide Permit for dredge and fill discharges, the project proponent must also obtain a Water Quality Certification from the RWQCB.

Section 402

The National Pollutant Discharge Elimination System (NPDES) program was established in 1972 to control discharges of pollutants from defined point sources (33 U.S.C. § 1342). The program originally focused on industrial-process wastewater and Publicly Owned Treatment Works. In 1987, Section 402 of the CWA was amended to include requirements for five separate categories of storm water discharges, known as Phase I facilities.

The EPA issued a final rule for Phase II discharges in August 1995. Phase II storm water discharges include light industrial facilities, small construction sites (i.e., less than 5 acres), and small municipalities (i.e., populations of less than 100,000).

On August 19, 1999, the SWRCB reissued the General Permit for Storm Water Discharges Associated with Construction Activity (Water Quality Order 99-08-DWQ) and, later that year, amended the permit to apply to sites as small as 1 acre. In California, NPDES permitting authority is delegated to and administered by the nine RWQCBs.

On September 2, 2009, the SWRCB adopted Order No. 2009-0009-DWQ (as amended by 2010-0014-DWQ and 2012-0006-DWQ) (Construction General Permit), which reissued Water Quality Order 99-08-DWQ and Water Quality Order 2003-0007 (Small Linear Utility General Permit)

for projects that disturb 1 or more acres of land, or that are part of a common plan of development or sale that disturbs more than 1 acre of land. The permit became effective on July 1, 2010, whereby all existing dischargers and new dischargers are required to obtain coverage under the permit by submitting Permit Registration Documents.

The Construction General Permit requires the approval of the SWPPP by the RWQCB prior to construction, and it must be available throughout construction. In accordance with Order No. 2009-0009-DWQ, a SWPPP must include the following:

- identification of pollutant sources and non-storm water discharges associated with construction activity;
- specifications for BMPs that will be implemented during project construction to minimize the potential for accidental releases and runoff from the construction areas, including temporary construction yards, pull sites, and other temporary work areas;
- calculations and design details, as well as BMP controls for site run-on;
- BMPs used to eliminate or reduce pollutants after construction is complete; and
- certification from a Qualified SWPPP Developer.

The Construction General Permit requires that the site sediment risk level is calculated based on rainfall, soil erodibility, and slope. It also requires that the receiving water risk level must be analyzed based on whether the disturbed area's discharge to a 303(d)-listed waterbody is impaired for sediment or if it has a U.S. EPA-approved TMDL plan for sediment. The receiving water risk level must also be analyzed based on whether the disturbed area's discharge to a waterbody has a beneficial use associated with fish spawning, cold freshwater habitat, and fish migration. The result of this analysis determines the combined risk level (i.e., 1, 2, or 3), which dictates the monitoring and reporting requirements.

Sections 303 and 304

Section 303 of the CWA requires the State of California to adopt water quality standards for all surface waters of the U.S. (33 U.S.C. § 1313). Section 304(a) requires the U.S. EPA to publish water quality criteria that accurately reflects the latest scientific knowledge on the type and extent of effects that pollutants in water may have on health and welfare (33 U.S.C. § 1314[a]). Where multiple uses exist, water quality standards must protect the most sensitive use. Water quality standards are typically numeric, although narrative criteria based on biomonitoring methods may be employed when numerical standards cannot be established, or when they are needed to supplement numerical standards.

Section 303(c)(2)(b) of the CWA requires the State of California to adopt numerical water quality standards for toxic pollutants, for which the EPA has published water quality criteria and that could reasonably be expected to interfere with designated uses in a waterbody. Under Section 303(d) of the CWA, states, territories, and authorized tribes are required to develop a list of waterbodies with poor water quality. The waters on the list do not meet water quality standards, even after point sources of pollution have installed the minimum required levels of

pollution control technology. The law requires that these jurisdictions establish priority rankings for water segments on the lists and develop action plans (i.e., TMDLs) to improve water quality. On October 11, 2011, the EPA gave final approval to the 2010 Section 303(d) List of Impaired Waterbodies.

Clean Water Rule

The Clean Water Rule: Definition of Waters of the United States—published in the Federal Register on June 29, 2015 and effective August 28, 2015—was issued to ensure that waters protected under the CWA are more precisely defined and predictably determined.

National Flood Insurance Program

The Federal Emergency Management Agency (FEMA) is responsible for determining flood elevations and floodplain boundaries based on studies by the USACE and other agencies. FEMA is also responsible for distributing the Flood Insurance Rate Maps used in the National Flood Insurance Program (NFIP). These maps identify the locations of special flood hazard areas, including the 100-year floodplain. FEMA allows non-residential development in floodplains; however, residential construction activities are restricted within flood hazard areas depending on the potential for flooding within each area. Federal regulations governing development in a floodplain are described in Title 44, Part 60 of the Code of Federal Regulations and enable FEMA to require municipalities that participate in the NFIP to adopt certain flood hazard reduction standards for construction and development in 100-year floodplains. As previously discussed, a portion of the Proposed Project would be located within 100-year floodplain hazard zones.

4.9.2.2 State

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act of 1967 (Section 13000 et seq. of the California Water Code) requires the SWRCB and the nine RWQCBs to adopt water quality criteria to protect waters of the State. These criteria include the identification of beneficial uses, narrative and numerical water quality standards, and implementation procedures. Individual water quality control plans are prepared for each RWQCB. These plans set implementation policies, goals, and water management practices in accordance with the Porter-Cologne Water Quality Control Act. NPDES permits, waste discharge requirements, and waivers are mechanisms used by the RWQCBs to control discharges and protect water quality. As the Proposed Project is located within the jurisdiction of the Santa Ana RWQCB, the criteria for the Proposed Project area are contained within the Water Quality Control Plan for the Santa Ana River Basin Region. The Santa Ana RWQCB is responsible for protecting the beneficial uses of surface water and groundwater resources in the Santa Ana Region of California.

4.9.2.3 Local

The California Public Utilities Commission (CPUC) has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC General Order No. 131-D, Section XIV.B, “Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities

constructed by public utilities subject to the CPUC's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the county and cities' regulations are not applicable as the county and cities do not have jurisdiction over the Proposed Project. Accordingly, the following subsections summarize the local regulations relating to hydrologic resources for Riverside and San Bernardino counties—as well as the cities of Chino, Corona, Norco, and Ontario—and are provided for informational purposes only. No relevant regulations were identified for the City of Eastvale.

Riverside County

The Proposed Project falls within the Temescal Canyon Area Plan (TCAP) in the Riverside County General Plan. The Temescal Canyon Area Plan includes the Santa Ana River Corridor as a specific policy area. Among the several policies that pertain to the preservation of the Santa Ana River Corridor is TCAP 5.12, which states, "Discourage utility lines within the river corridor. If approved, lines shall be placed underground where feasible and shall be located in a manner to harmonize with the natural environment and amenity of the river."

Riverside County Development Code, Ordinance 458 (as amended through Ordinance 458.13) regulates flood hazard areas and was adopted pursuant to the requirements of the NFIP. This ordinance specifies that new construction within a flood hazard area must be designed with "structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy."

Work within public flood control rights-of-way (ROWs) or easements within western Riverside County require an encroachment permit from the Riverside County Flood Control and Water Conservation District. As part of the application package, applicants with projects that will disturb more than 1 acre must obtain coverage under the Construction General Permit and submit a SWPPP for approval per the requirements of the SWRCB. The portions of the Proposed Project that would be located within the cities of Corona, Eastvale, and Norco, as well as unincorporated communities in western Riverside County, would also be within the Riverside County Flood Control and Water Conservation District.

San Bernardino County

The San Bernardino County Development Code, Flood Plain Safety Overlay, adopted by Ordinance 4011, restricts development within a designated floodway, unless approved by the county. In addition, Development Code Section 82.14.050 states that, "All public utilities and facilities such as electrical, telephone, cable TV, gas, etc., shall utilize flood-proofing measures in their location and construction to minimize flood damage." The northernmost portion of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would be located within San Bernardino County; however, it would not be within a designated floodway.

The San Bernardino County Flood Control District requires an encroachment permit where work, including aerial utilities, is proposed within a public ROW or easement. Encroachment permit applications that include storm water discharges into San Bernardino County Flood Control District facilities must identify BMPs per the General Permit requirements. The portion

of the Mira Loma-Jefferson 66 kV Subtransmission Line Route that would be located in the City of Ontario is within the San Bernardino Flood Control District.

City of Chino

The City of Chino's issuance of a grading permit requires that applicants demonstrate compliance with the Construction General Permit requirements and that applicable BMPs are incorporated into the SWPPP.

City of Corona

The City of Corona requires a grading permit for grading or clearing, or for brushing and grubbing on natural or existing grade in preparation for grading or land development. In order to obtain a grading permit for projects disturbing an area of 1 acre or more, the applicant must submit a copy of a Notice of Intent receipt and Wastewater Discharge ID (WDID) number from the SWRCB.

City of Eastvale

The City of Eastvale requires the preparation of an Erosion Control Plan prior to the issuance of a grading permit.

City of Norco

The City of Norco requires a grading permit for any physical work to raise or lower the existing grade of any lot/parcel, or for any excavation or filling that changes the grade of the natural slope of any lot/parcel to not take natural runoff of water from adjacent lots/parcels. A permit is also required if the surface drainage of the lot/parcel is concentrated or collected and discharges onto another property in a different location, in a greater quantity, or at an accelerated rate. In addition, a permit is required if the surface drainage discharges in such a way that it is likely to result in damage, or in a way that creates a hazard to public health, safety, or public property.

City of Ontario

The City of Ontario's issuance of grading permits is contingent on the applicant providing evidence of compliance with the Construction General Permit by providing a copy of the WDID to the city's Engineering Department.

4.9.3 Significance Criteria

The significance criteria for assessing the impacts to hydrology and water quality are derived from the California Environmental Quality Act (CEQA) Environmental Checklist. According to the CEQA Checklist, a project causes a potentially significant impact if it would:

- Violate any water quality standards or waste discharge requirements
- Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local ground water table level

- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on site or off site

- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or a substantial increase in the rate or amount of surface runoff in a manner which would result in flooding on site or off site

- Create or contribute to runoff water, which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff

- Otherwise substantially degrade water quality

- Place housing within a 100-year floodplain, as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map, or other flood hazard delineation map

- Place structures within a 100-year flood hazard area, which would impede or redirect flood flows

- Expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam

- Expose people or structures to a significant risk of loss, injury, or death involving inundation by seiche, tsunami, or mudflow

4.9.4 Impact Analysis

4.9.4.1 Would the project violate any water quality standards or waste discharge requirements?

Construction – Less-than-Significant Impact

Construction of the Proposed Project would result in ground-disturbing activities that would expose soil to erosion and subsequent sedimentation. Sediment transport from construction work areas to adjacent water resources could contribute to water quality degradation and violate RWQCB standards. As shown in Table 4.9-1: Section 303(d)-Listed Waterbodies in the Proposed Project Area, Cucamonga Creek, the Santa Ana River, and Temescal Creek would be crossed or spanned by the Mira Loma-Jefferson 66 kV Subtransmission Line Route and have been identified as impaired for various substances, due to exceedance levels for cadmium, copper, lead, zinc, and pH. Furthermore, TMDLs have been established (as of 2007) for bacterial indicators in Reach 3 of the Middle Santa Ana River and Reach 1 of Cucamonga Creek. Nutrients and bacterial indicators are primarily a concern in urban and agricultural runoff, and are not likely to result from construction site runoff. Although these waterbodies are not impaired for sediment, sedimentation can adversely affect aquatic resources.

Sediment can cause turbidity, smother riparian habitat, impair recreational uses, and transport other pollutants. Water applications used during construction to assist with soil compaction and

abate fugitive dust—would also have the potential to cause erosion and discharge if not used properly.

Sediment transport from work areas, including at the proposed Circle City Substation, could occur from surface water run-on and runoff, heavy rains, or overwatering dust-abatement activities. As discussed in Section 4.6 Geology and Soils, the erosion potential at most of the work areas is low, primarily because of flat to gentle terrain and well-drained soils. However, the sediment potential would increase during construction in the winter months when precipitation is most likely to occur and the soils become disturbed.

In order to address the potential for erosion and sedimentation, Southern California Edison (SCE) would conduct a risk level assessment prior to construction and prepare a SWPPP in accordance with the General Permit described in Section 4.9.2 Regulatory Setting. The risk level assessment would take into consideration the receiving waters, soil type, slopes, construction duration, and rainfall to determine the potential erosion and estimate the volume of sediment that could leave disturbed areas in the Proposed Project. The purpose of the risk assessment is to identify Proposed Project- and site-specific BMPs to include in the SWPPP that would ensure water quality standards are met.

Excavation and ground disturbance associated with replacement of the H-frame structures within the Santa Ana River Corridor would result in the potential for minor erosion within the river banks, as well as the introduction of sediment or other pollutants within the flowing portion of the river. However, as described in Chapter 3 – Project Description, the BMPs that would be used on the Proposed Project would include quality-control measures for storm water runoff (e.g., boundary protection), dewatering procedures, and concrete waste management. In addition, erosion control, sediment controls, waste management and hazardous materials controls, and guidelines for working around waterbodies would be implemented. With the implementation of the BMPs described in the SWPPP and with adherence to the Construction General Permit, impacts to water quality would be less than significant.

Hazardous materials used during construction (e.g., diesel fuel, hydraulic fluid, oils, grease, and concrete) could be transported by storm water runoff and threaten aquatic life. These hazardous materials could violate water quality standards if they come in contact with storm water and/or were transported to nearby water resources or the Municipal Separate Storm Sewer System. The handling, storage, and disposal of potentially hazardous materials are discussed in Section 4.8 Hazards and Hazardous Materials.

Wastewater would be generated by construction workers over the approximately 18-month construction duration of the Proposed Project. However, the amount of wastewater generated during the short construction period would be minimal and would be contained within portable restrooms and treated and disposed of by a licensed contractor. No wastewater would be discharged from the site.

As identified in Section 4.9.1 Environmental Setting, contaminated groundwater plumes are known to occur in the Proposed Project area. According to the Draft Geotechnical Investigation Report for the Circle City 66 kV Substation (included in Attachment 4.6-A: Geotechnical Investigation Report in Section 4.6 Geology and Soils), soil samples were taken to a depth of 26

feet at the proposed Circle City Substation site, and no groundwater was encountered. Similar depths are expected along the potential source line routes; however, groundwater may be present near the surface immediately adjacent to waterbodies. Groundwater levels are known to be shallow within the Prado Flood Control Basin/Santa Ana River Corridor, and therefore, groundwater may be encountered when excavating in this area. As described in Chapter 3 – Project Description, if groundwater is encountered, it would be pumped into a tank and disposed of at an off-site facility in accordance with all applicable regulations. With implementation of the Proposed Project-specific BMPs provided in the SWPPP and with proper disposable of any groundwater encountered during construction activities, the Proposed Project would not violate any water quality standards or waste discharge requirements; therefore, impacts would be less than significant.

Operation – Less-than-Significant Impact

Areas temporarily disturbed during construction of the Proposed Project (e.g., staging areas, work areas, access roads, and substations) would be stabilized using BMPs; in the case of the proposed Circle City Substation, pavement or crushed rock would be used to provide permanent stabilization. Daily operation and maintenance of the Proposed Project would not impact water quality or result in discharges to waters as existing roads would be used to access Proposed Project components.

The proposed Circle City Substation would include a permanent restroom and sink; however, SCE would apply for sewer and water service from the City of Corona's Department of Water and Power, and any wastewater generated at the restroom would be discharged accordingly. Therefore, there would be no impact to water quality as a result of restroom use. More information regarding the restroom facility is provided in Section 4.17 Utilities and Service Systems.

The aboveground transformers at the proposed Circle City Substation would contain mineral oil in excess of 1,320 gallons. As such, there would be a potential for hazardous oil to leak. In order to minimize impacts associated with potential hazardous leaks, the proposed Circle City Substation would include a secondary containment system to prevent an oil leak and/or spill from entering any nearby waterways. The containment facilities are described further in Chapter 3 – Project Description and Section 4.8 Hazards and Hazardous Materials. Due to the installation of containment facilities, an accidental spill would be contained on site and would not be anticipated to result in a water quality violation. As a result, operation and maintenance of the Proposed Project would result in less-than-significant impacts to water quality and waste discharge.

4.9.4.2 Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local ground water table level? – Less-than-Significant Impact

During construction, the Proposed Project would draw approximately 58 acre-feet of water from local sources for grading, dust control, cleanup, crew member consumption, and hand washing. Restroom facilities would be portable and would not draw from local supplies. A number of local

water purveyors are found in the Proposed Project area, and some use groundwater as a water source. These facilities are described in more detail in Section 4.17 Utilities and Service Systems. Available water supplies would be more than sufficient to serve the Proposed Project's limited demand. Therefore, the Proposed Project would not substantially deplete groundwater supplies as a result of grading operations and dust control, and therefore, there would be a less-than-significant impact.

As discussed previously, encountering groundwater at the Circle City Substation site or along the proposed Source Line Route is not expected, except in areas adjacent to waterbodies where there may be a potential to reach the groundwater table during excavation for pole or underground duct bank installation. Groundwater may be encountered when excavating within the Prado Flood Control Basin/Santa Ana River Corridor where the depth to groundwater is known to be shallow. However, if groundwater is encountered in foundation holes, it would not be expected to affect groundwater levels, and any potential impact would be both short-term and negligible. Therefore, impacts to groundwater supplies would be less than significant.

Impervious surfaces created during construction can reduce localized groundwater recharge, and the introduction of new impervious surfaces would include the foundations, drainage swales, cable trenches, internal and external driveways, distribution duct banks/vaults, and bus enclosure for the proposed Circle City Substation. The addition of these structures would result in an increase of approximately 2.7 acres of impervious surfaces. This increase in impervious surfaces represents approximately 13.9 percent of the total approximate surface area (19.5 acres) for the substation site parcel. Thus, the increase in impervious surfaces would not substantially alter the groundwater recharge capabilities of the substation site.

Construction of the paved primary access road for the proposed Circle City Substation would include the addition of an impervious surface area measuring approximately 24 feet wide and 1,000 feet long. The secondary access road—measuring approximately 16 feet wide and 1,400 feet long—would consist of a crushed rock base and would not include impervious surfaces, but would require soil compaction beneath the road. This would create some reduction in the groundwater recharge immediately below the impervious surface, but would have a negligible effect on the overall infiltration volume of the area. Therefore, the impacts to groundwater recharge would be less than significant.

The installation of subtransmission structures (e.g., new tubular steel poles [TSPs], lightweight steel poles, wood poles, stub poles, H-frame hybrid poles, and duct banks/vaults) would also introduce new permanent impervious surfaces. Pole diameters range from 2 to 6 feet, and concrete foundations for TSPs measure 4 to 8 feet in diameter. This would result in a small amount of additional impervious area due to the footprint of these structures. The Proposed Project would also include the removal of 243 existing distribution and subtransmission poles that would result in a reduction of impervious surface from the Proposed Project area. Although the Proposed Project would result in a small increase in impervious surfaces, it would not significantly affect groundwater depletion, nor would it affect infiltration. Therefore, impacts to groundwater recharge would be less than significant.

The proposed Circle City Substation would include a new permanent restroom. SCE would obtain sewer and water service from the City of Corona's Department of Water and Power,

which draws approximately 56 percent of its supply from groundwater and the remainder from the Western Metropolitan Water District. During operation and maintenance, the unmanned substation could be visited three to four times a month. Therefore, the restroom facility would draw small amounts of water, and would not substantially deplete groundwater supplies. Thus, no impact would occur.

4.9.4.3 Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? – Less-than-Significant Impact

The proposed Circle City Substation site is relatively flat. The graded substation pad would maintain a minimum of 1-percent slope to drain toward drainage new drainage swales that would be located around the substation perimeter. Water would drain from the southerly portion of the site toward the north through the drainage swales, and exit through the eastern and western corridors. Water would then discharge onto Leeson Lane. Given that the site is relatively flat, only minor changes to the existing drainage patterns are anticipated.

As noted in Chapter 3 – Project Description, SCE would prepare final engineering drawings for grading and drainage prior to construction, and submit the drawings to the City of Corona to obtain a ministerial grading permit. SCE may include a detention or retention basin just north and/or south of the substation perimeter fence, if determined necessary in the final engineering drawings for grading and drainage. In addition, if requested by the City of Corona and/or warranted by final design, an approximately 700-foot extension of the existing storm drain system may be constructed to accept site flow onto Leeson Lane. Implementation of the drainage plan would limit impacts to existing drainage patterns within and outside of the Circle City Substation limits. Thus, runoff would not cause significant erosion when compared to pre-construction conditions. Therefore, impacts would be less than significant.

Installation of the proposed Source Line Route would be within city street ROWs and would not alter drainage patterns. Installation of the Mira Loma-Jefferson 66 kV Subtransmission Line poles may require minor grading to provide a safe, level work area. However, the amount of grading required to install individual poles would not substantially alter existing drainage patterns. Disturbed areas would be returned to near pre-construction conditions following the completion of construction, and swales, drainages, and/or curbs would be restored. Impacts to drainage patterns—and the subsequent erosion and off-site siltation resulting from the installation of the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line—would be less than significant.

4.9.4.4 Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or a substantial increase in the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? – Less-than-Significant Impact

As previously discussed, the Proposed Project would not substantially alter existing drainage patterns. With the exception of the replacement of existing H-frames within the Santa Ana River, work would not occur in streams or rivers. Grading would be required for the proposed Circle

City Substation, and minor earth disturbances would occur during the installation of the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line poles. The replacement H-frames within the Santa Ana River would use engineered hybrid frames with a diameter of 4 to 5 feet at the base of the pole. Therefore, surface runoff would not be expected to change when compared to pre-construction conditions, and flooding resulting from runoff from Proposed Project facilities is not anticipated. As downstream flow rates and volumes would not measurably change, impacts to drainage patterns that would result in flooding would be less than significant.

4.9.4.5 Would the project create or contribute to runoff water, which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?

Construction – Less-than-Significant Impact

Development of the proposed Circle City Substation site would require compaction of soils to meet engineering standards. In general, compaction increases surface runoff when all other factors (e.g., slope steepness and slope length) remain the same. In addition, concrete foundations would be poured for the substation equipment, and a paved primary road and compacted dirt road would be installed. As discussed previously, the majority of the site would remain pervious in terms of interference with groundwater recharge. Approximately 2.7 acres of the approximately 19.5-acre site would include impervious surfaces after construction. Because the footprint of the impervious surfaces would be relatively small, the site is relatively flat, and storm water conveyance would be directed into engineered drainage swales, runoff from the site is not expected to change substantially from pre-construction conditions. In addition, SCE may include a detention or retention basin just north and/or south of the substation perimeter fence, if it is determined necessary following the finalization of engineered grading and drainage drawings. Consequently, there would be no impact to existing storm water conveyance systems.

Construction may introduce pollutants that can enter storm water and be transported off site. Potential pollutants would include hazardous materials, such as diesel fuel, hydraulic fluid, oil, grease, concrete, and trash. With implementation of the BMPs described in the SWPPP and adherence to the Construction General Permit, impacts associated with the introduction of pollutants to storm water runoff would be less than significant.

Operation – Less-than-Significant Impact

Following the completion of construction, temporary work areas would be returned to near pre-construction conditions, and disturbed soils would be stabilized to minimize the transport of pollutants. The difference in runoff volume and rates along the Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line Route would be negligible when compared to pre-construction conditions, as the original grade would be restored. Therefore, impacts would be less than significant.

4.9.4.6 Would the project otherwise substantially degrade water quality? – No Impact

As previously discussed, potential sources of pollutants and activities can contribute to water quality degradation. No additional foreseeable sources of pollution are anticipated to be associated with construction of the Proposed Project. As a result, the Proposed Project would not otherwise substantially degrade water quality.

4.9.4.7 Would the project place housing within a 100-year floodplain, as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map? – No Impact

No housing would be constructed as part of the Proposed Project. Therefore, no housing would be placed in flood hazard areas, and no impact would occur.

4.9.4.8 Would the project place within a 100-year flood hazard area structures which would impede or redirect flood flows? – Less-than-Significant Impact

According to the FEMA Flood Hazard Boundary Maps that are shown in Figure 4.9-1: Hydrologic Features Map (Source Line Route) and Figure 4.9-2: Hydrologic Features Map (Subtransmission Line), the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would be located within a 100-year flood hazard area. The proposed Circle City Substation and the proposed Source Line Route would not be located within a 100-year flood hazard area. Although H-frame structures and the associated foundations would be placed within the 100-year flood hazard area along the Santa Ana River Corridor, these structures would merely replace the existing H-frame structures that are already located along the corridor. Therefore, placement of these structures would not alter drainage patterns or significantly impede flood flows, due to their relatively small footprint within the flood zone. Thus, impacts would be less than significant.

4.9.4.9 Would the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam? – Less-than-Significant Impact

The Proposed Project would be located within designated dam inundation zones. As the Proposed Project would be designed to withstand the effects of a 100-year flood, the impacts due to flooding as a result of the failure of a dam or levee are expected to be less than significant.

4.9.4.10 Would the project expose people or structures to a significant risk of loss, injury or death involving inundation by seiche, tsunami, or mudflow? – No Impact

The Proposed Project would not be located within a tsunami inundation area and would be too far from the ocean to be subjected to tsunamis. In addition, the Proposed Project would not be located within and would not span any lakes, pools, or other bounded waterbodies. The nearest lakes to the Proposed Project alignment are as follows:

- Lake Mathews (approximately 4.2 miles east of the proposed Circle City Substation),

- Prado Lake (approximately 1.8 miles west of the Mira Loma-Jefferson 66 kV Subtransmission Line Route), and
- Lake Norconian (approximately 1.0 mile to the east of the Mira Loma-Jefferson 66 kV Subtransmission Line Route).

If a seiche were to occur within a nearby lake, the Proposed Project would not likely be affected due to distance, intervening terrain, and—in the case of Prado Lake—the downstream nature and presence of the Prado Flood Control Basin. Because the terrain within the Proposed Project area is generally flat with no high inclinations and the soils are generally well-drained, there is a low potential for landslides or mudflows. Therefore, the Proposed Project would not cause or be impacted by inundation due to a seiche, tsunami, or mudflow. Post-construction conditions would be similar to pre-construction conditions. As a result, the construction, operation, and maintenance of the Proposed Project would result in no impact to people or structures from inundation by a seiche, tsunami, or mudflow.

4.9.5 Applicant-Proposed Measures

With implementation of BMPs and adherence to the Construction General Permit , impacts would be less than significant, and no additional measures are proposed.

4.9.6 Alternative Substation Site

Substation Site Alternative B is located just southeast of the proposed Circle City Substation site (i.e., Substation Site Alternative A), as depicted in Figure 4.9-1: Hydrologic Features Map (Source Line Route). The potential Circle City Substation sites share similar topographic and hydrologic characteristics, with the exception of one earthen man-made ditch located on the northeast corner of Substation Site Alternative B. Construction of Substation Site Alternative B would result in impacts to this drainage ditch.

During site grading, the earthen man-made ditch would be filled, or removed, to grade the site for development. More detailed information on impacts to this drainage feature is included in Section 4.4 Biological Resources. A SWPPP would be implemented to ensure exposed or disturbed soils are contained within the Proposed Project site. A drainage channel would be built around the perimeter of the substation site to replace the existing drainage pattern of the impacted ditch and to route off-site storm water away from the substation. As a result, the existing drainage pattern of the site would not be impacted, and construction and operation at Substation Site Alternative B would result in less-than-significant impacts.

4.9.7 Alternative Source Line Routes

As shown in Figure 4.9-1: Hydrologic Features Map (Source Line Route), the alternative source line routes are located in areas with either identical or similar hydrologic and topographic conditions. As with the proposed Source Line Route (i.e., Source Line Route Alternative 1), the portion of the alternative source line routes that would connect Corona Substation to the potential Circle City Substation sites would be located within and adjacent to existing roadways and would primarily follow the same alignment. However, Source Line Route Alternatives 2 and 4 would differ from the proposed Source Line Route in that a greater percentage of these lines would be installed underground. This would result in greater ground disturbance during

construction than the proposed Source Line Route, but the potential impacts to hydrology and water quality would be the same. Thus, construction and operation of the alternative source line routes would result in less-than-significant impacts to hydrology and water quality.

As depicted in Figure 4.9-1: Hydrologic Features Map (Source Line Route), the remaining portion of Source Line Route Alternative 4 would follow the same alignment as the proposed Source Line Route. Source Line Route Alternatives 2 and 3 connect to the Chase-Corona-Databank 66 kV Subtransmission Line at the intersection of Old Temescal Road and Compton Avenue, and therefore, would follow different alignments than the proposed Source Line Route. The length of Source Line Route Alternatives 2 and 3 would be greater than the proposed Source Line Route by approximately 0.4 mile. As such, additional land disturbance would result during construction. In addition, as depicted in Figure 4.9-1: Hydrologic Features Map (Source Line Route), both Source Line Route Alternatives 2 and 3 would be located within a 100-year flood hazard zone and would parallel and cross an unnamed blue-line drainage with connectivity to Temescal Wash. However, potential impacts to hydrology and water quality would be the same as described for the Proposed Project, and impacts from construction and operation of Source Line Route Alternatives 2 and 3 would be less than significant.

4.9.8 Alternative Mira Loma-Jefferson 66 kV Subtransmission Line Routes

As depicted in Figure 4.9-2: Hydrologic Features Map (Subtransmission Line), there are two Mira Loma-Jefferson 66 kV Subtransmission Line Route alternatives: Alternative 2 and Alternative 3. Alternative 3 would be located east of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route, and as a result, would avoid spanning Cucamonga Creek or Mill Creek. As with the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route, Alternative 3 would cross the Santa Ana River. However, the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would replace two existing H-frame structures in the Santa Ana River, whereas Alternative 3 would require the installation of new structures in a less disturbed area along the Santa Ana River. Although potential impacts to hydrology and water quality would be less than significant with implementation of BMPs and adherence to the General Permit and SWPPP, Alternative 3 poses a greater potential to temporarily impact water quality along the Santa Ana River.

Alternative 2 would be located along the same alignment as the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route. The two routes differ in that Alternative 2 would include an underground component. The underground component would include additional ground disturbance, but potential impacts would remain less than significant. Furthermore, because the two options would be collocated, the hydrology and topographic conditions would be identical, and potential impacts would be similar. As a result, these impacts would be less than significant.

4.9.9 References

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4.10 Land Use and Planning

This section describes the land use and planning in the area of Southern California Edison's (SCE's) Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project (Proposed Project), as well as the potential impacts and alternatives. The Proposed Project would be located in two counties, five cities, and several specific plan areas with varying goals and policies. The analysis of the relevant goals and policies from each jurisdiction revealed that construction and operation of the Proposed Project would have no impact on land use and planning.

4.10.1 Environmental Setting

The Proposed Project would cross portions of northwestern Riverside and southwestern San Bernardino counties. The Proposed Project would be located primarily in the City of Corona, with other components also located in the cities of Chino, Eastvale, Norco, and Ontario. The cities of Corona, Eastvale, and Norco are located in Riverside County, and the cities of Chino and Ontario are located in San Bernardino County. The Proposed Project is also located within a small portion of unincorporated Riverside County near the Santa Ana River, which is within the Temescal Canyon Area Plan (TCAP) boundaries. Table 4.10-1: Land Use Areas Crossed by Proposed Project Components provides a summary of the distance/area of the Proposed Project components that would be located within each land use jurisdiction.

Table 4.10-1: Land Use Areas Crossed by Proposed Project Components

Proposed Project Component	City/County	Distance/Area[1]
Circle City Substation	Corona	19.5 acres
Source Line Route	Corona	4.7 miles
Mira Loma-Jefferson 66 kilovolt (kV) Subtransmission Line	Ontario	2.1 miles
	Eastvale	3.7 miles
	Chino	2.0 miles
	Unincorporated Riverside County	0.1 mile
	Norco	1.3 miles
	Corona	1.7 miles

Sources: Riverside County, 2008; City of Chino, 2010; City of Ontario, 2011

4.10.1.1 Riverside County

The majority of Proposed Project activities—including construction of the proposed Circle City Substation, the installation of the proposed Source Line Route, and the construction of the

[1] The length of the Mira Loma-Jefferson 66 kV Subtransmission Line includes approximately 10.3 miles of new construction, as well as approximately 0.6 mile of existing underground duct where the line would be installed north of Corona Substation to River Road.

southernmost approximately 1.7 miles of the Mira Loma-Jefferson 66 kV Subtransmission Line—would be conducted in the City of Corona. The City of Corona is located at the base of the Santa Ana Mountains and is the gateway to the Inland Empire; it is also the most developed area crossed by the Proposed Project. According to the City of Corona's General Plan, as of 2002, the land was distributed as follows:

- approximately 30 percent of the city was developed with housing,
- approximately 4 percent for commercial and office uses,
- approximately 12 percent for industrial uses,
- approximately 37 percent for public parks and open spaces,
- approximately 17 percent was undeveloped or not committed as permanent open space, and
- less than 1 percent was set aside for agricultural purposes.

Figure 4.10-1: Land Use Designation Map (Source Line Route) and Figure 4.10-2: Land Use Designation Map (Subtransmission Line) depict the general land use designations found within 1 mile of the Proposed Project. In addition, four specific plan areas are crossed by the Proposed Project in the City of Corona, including the Downtown Revitalization, North Main Street District, Corona Magnolia, and The Township in Corona.

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross the City of Eastvale for approximately 3.7 miles. The subtransmission line would cross through the city south of Bellgrave Avenue at the San Bernardino County line, and the route would turn south on Hellman Avenue at American Heroes Park. This portion of the Proposed Project area is bordered primarily by residential, industrial, and open space land uses. The subtransmission line would cross back into the City of Eastvale from the boundary of the City of Chino on River Road to approximately 0.1 mile north of Bluff Street (south of the Santa Ana River). This portion of the line would primarily cross land designated as residential, public facilities, and industrial.

As previously discussed, the Mira Loma-Jefferson 66 kV Subtransmission Line would also cross unincorporated Riverside County south of the Santa Ana River for approximately 0.1 mile between the City of Norco's northern boundary and the City of Eastvale's southern boundary. Riverside County is roughly divided into eastern and western halves by the San Jacinto and Santa Rosa mountains. The Proposed Project is located within the western portion of the county, which contains the greatest concentration of population. The line would cross park/recreation/open space land designated as Open Space – Conservation by the Riverside County General Plan. As previously discussed, this area is within the TCAP boundaries.

Within Riverside County, the proposed Mira Loma-Jefferson 66 kV Subtransmission Line would cross approximately 1.3 miles of the western edge of the City of Norco. The land crossed by the Proposed Project is designated as residential and commercial.[2]

[2] Land use designations have been generalized in this section based on their primary uses due to the number of differing jurisdictions and designations crossed by the Proposed Project. An explanation of the specific designations crossed is provided for each jurisdiction in Section 4.10.1.4 General Plan Land Use Designation, Existing Land Use, and Zoning.

Figure 4.10-1: Land Use Designation Map (Source Line Route)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

- Substation
- Undergrounding
- Source Line Route Alternative 1 (Proposed)
- Source Line Route Alternative 2
- Source Line Route Alternative 3
- Source Line Route Alternative 4
- Source Line Route Alternative Extensions to Substation Site Alternative B

Land Use Designations*

- Commercial
- Industrial
- Mixed Use
- Park/Recreation/Open Space
- Public Facility
- Residential

*Specific land use designations have been consolidated to reflect general land use categories for the Proposed Project.

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Sources: Insignia, 2015; SCE, 2015

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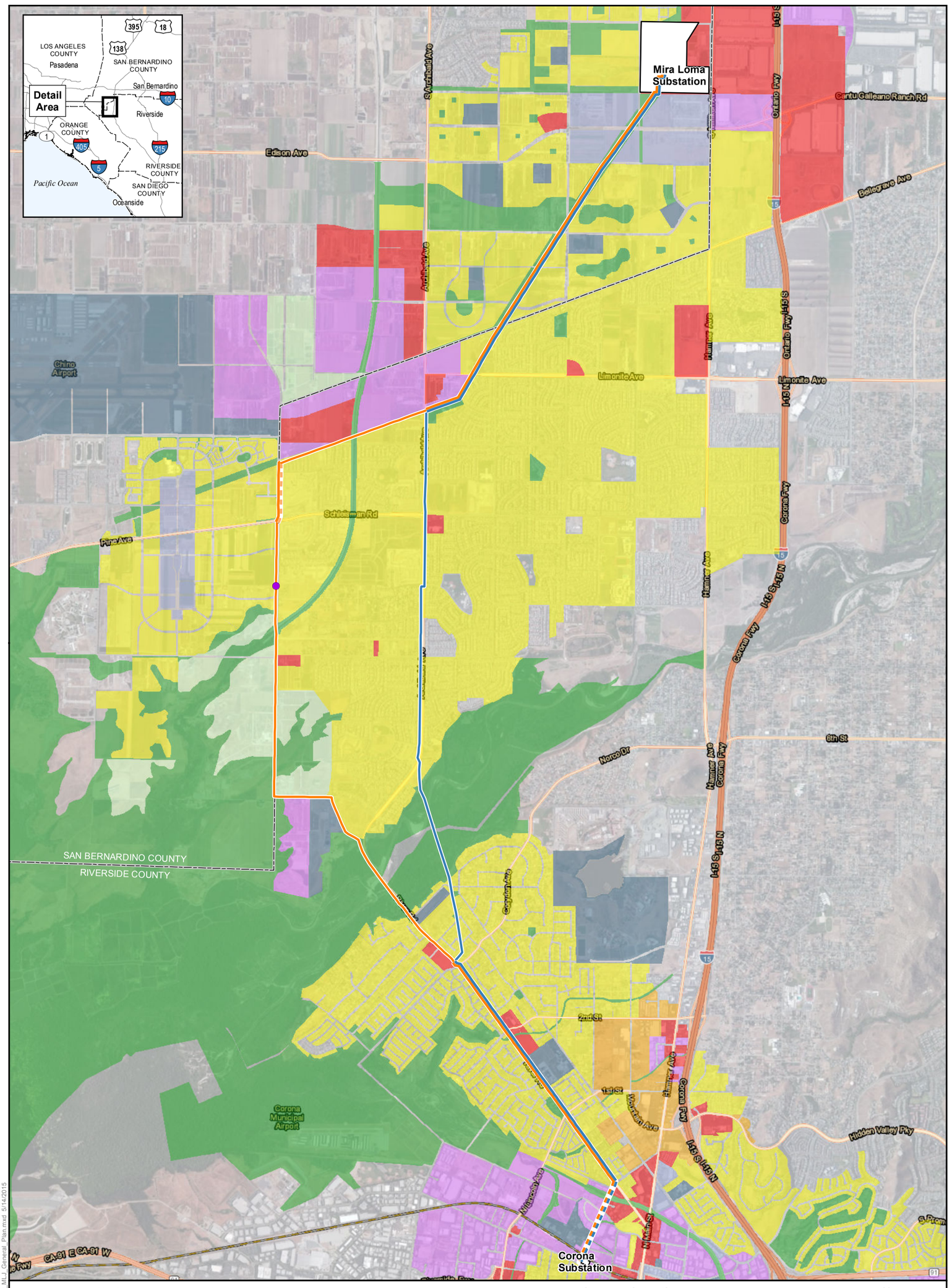

Figure 4.10-2: Land Use Designation Map (Subtransmission Line)

Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project

Mira Loma-Jefferson 66 kV Subtransmission Line

- Subtransmission Line Route Alternative 1 - Overhead (Proposed)
- Subtransmission Line Route Alternative 1 - Underground (Proposed)
- Subtransmission Line Route Alternative 2 - Underground*
- Subtransmission Line Route Alternative 3 - Overhead
- Subtransmission Line Route Alternative 3 - Underground
- Subtransmission Line - Underground Crossing
- County Boundary

Land Use Designations**

- Agriculture
- Commercial
- Industrial
- Mixed Use
- Park/Recreation/Open Space
- Public Facility
- Residential
- Specific Plan

*Note: Except for the underground portion indicated, Alternative Route 2 would utilize the same route and construction techniques as the Proposed Route.
**Specific land use designations have been consolidated to reflect general land use categories for the Proposed Project.

Sources: City of Chino, 2012; City of Corona, 2012; City of Eastvale, 2014; City of Ontario, 2012; Riverside County, 2015; Insignia, 2015; SCE, 2015

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4.10.1.2 San Bernardino County

San Bernardino County is divided into three separate regions in the San Bernardino County General Plan—the Valley, Mountain, and Desert regions. The Proposed Project would be located entirely within the Valley Region, which comprises the southwestern corner of San Bernardino County. Hellman Avenue divides the City of Eastvale in Riverside County from the City of Chino in San Bernardino County, which is located on the western side of the street. The Mira Loma-Jefferson 66 kV Subtransmission Line would travel through the eastern edge of the City of Chino, along the western side of Hellman Avenue for approximately 2.0 miles within The Preserve Specific Plan area, which is described in further detail in Section 4.10.1.3 Planned and Proposed Development. The Mira Loma-Jefferson 66 kV Subtransmission Line would primarily cross undeveloped and agricultural land along the southern portion of Hellman Avenue, and smaller areas of residential land just south of Schleisman Road.

Between the City of Eastvale boundary and the existing Mira Loma Substation, the Mira Loma-Jefferson 66 kV Subtransmission Line would travel through the City of Ontario for approximately 2.1 miles. The City of Ontario is located approximately 35 miles east of the City of Los Angeles and is approximately 50 square miles in area. The Mira Loma-Jefferson 66 kV Subtransmission Line would be located in the southeastern portion of the city, just north of Riverside County and the City of Eastvale. This portion of the line would cross two approved specific plan areas within the New Model Colony, which is described in further detail in Section 4.10.1.3 Planned and Proposed Development. The land use designations along this portion of the Mira Loma-Jefferson 66 kV Subtransmission Line primarily include open space and agricultural land.

4.10.1.3 Planned and Proposed Development

The portion of the Mira Loma-Jefferson 66 kV Subtransmission Line that is proposed to be located within SCE's existing easement northeast of American Heroes Park and west of the flood-control channel would cross the southeast corner of The Ranch at Eastvale Specific Plan area. This plan area is approximately 120 acres in size and is proposed to include commercial/retail, light industrial, and business park developments. The proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would cross through a portion of the plan that is designated as Business Park.

The portion of the Mira Loma-Jefferson 66 kV Subtransmission Line that would be located within the City of Ontario would be within the boundaries of the New Model Colony planning area. The New Model Colony is the portion of the former San Bernardino County Agricultural Preserve that was annexed by the city in 1999. The New Model Colony encompasses approximately 8,200 acres and is bordered by Riverside Drive to the north, Milliken Avenue and Hamner Avenue to the east, the Riverside County line and Merrill Avenue to the south, and Euclid Avenue to the west. The subtransmission line would originate at the existing Mira Loma Substation, which is located north of the Rich-Haven Specific Plan area. The line would then travel in a southwesterly direction, through the southwestern corner of the Grand Park Specific Plan area, through the eastern portion of the Subarea 29 Specific Plan area, and adjacent to the Subarea 29 Specific Plan Amendment area. The Rich-Haven, Grand Park, and Subarea 29

specific plan areas have been approved, while the Subarea 29 Specific Plan Amendment area is still in process.

4.10.1.4 General Plan Land Use Designation, Existing Land Use, and Zoning

The California Public Utilities Commission (CPUC) has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC General Order (G.O.) 131-D, Section XIV.B, "Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the CPUC's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the counties and cities' regulations are not applicable as the counties and cities do not have jurisdiction over the Proposed Project. Accordingly, the following discussion of local land use regulations is provided for informational purposes only.

As previously described, the Proposed Project would cross through two counties, five cities, and several specific plan areas. Given the number of different specific land use designations that are located within 1 mile of the Proposed Project, these designations were classified generally, as shown in Figure 4.10-1: Land Use Designation Map (Source Line Route) and Figure 4.10-2: Land Use Designation Map (Subtransmission Line). Land use designations were classified according to the following methodology:

- All agricultural uses are grouped into the agriculture designation
- All commercial uses—including individual offices, office and business parks, and retail centers—are grouped in the commercial designation
- All industrial uses—including general, light, medium, and heavy industry and manufacturing—are included in the industrial designation
- All specified mixed use areas are classified as part of the mixed use designation
- All parks, community centers, conservation areas, and similar uses are included in the park/recreation/open space designation
- All public uses (e.g., hospitals, schools, government buildings, and similar areas) are included in the public facility designation
- All residential uses—including low, medium, high, and urban density, as well as the Residential Agricultural designation in the City of Norco General Plan maps—are grouped into the residential designation
- An area within the City of Norco that is only designated as "Specific Plan" was given the specific plan designation

Table 4.10-2: Proposed Project Land Use Designations Crossed provides the approximate distances of each land use designation that would be crossed by the Proposed Project.

Table 4.10-2: Proposed Project Land Use Designations Crossed

Proposed Project Component	Location	General Land Use Designation[3]	Approximate Distance/Area[4]
Circle City Substation	Corona	Industrial	19.5 acres
Source Line Route	Corona	Industrial	0.85 mile
		Park/Recreation/ Open Space	0.06 mile
Mira Loma-Jefferson 66 kV Subtransmission Line	Ontario	Commercial	0.19 mile
		Park/Recreation/ Open Space	1.55 miles
		Residential	0.37 mile
	Eastvale	Commercial	0.11 mile
		Industrial	0.47 mile
		Public Facility	0.38 mile
		Park/Recreation/ Open Space	0.88 mile
		Residential	1.88 miles
	Chino	Agriculture	0.13 mile
		Park/Recreation/ Open Space	0.06 mile
		Residential	0.12 mile
	Unincorporated Riverside County	Park/Recreation/ Open Space	0.10 mile
	Norco	Commercial	0.34 mile
		Park/Recreation/ Open Space	0.01 mile
		Residential	0.56 mile
	Corona	Public Facility	0.26 mile
		Residential	0.79 mile
Mira Loma Substation Staging Area	Ontario	Commercial	3 acres
Ontario Service Center Staging Area	Ontario	Commercial	1 acre

[3] Specific land use designations have been consolidated to reflect general land use categories for the Proposed Project.

[4] The distance of land use designations crossed does not equal the total length of the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line, as portions of the lines are located along rights-of-way (ROWs) that are outside of classified areas.

Proposed Project Component	Location	General Land Use Designation[3]	Approximate Distance/Area[4]
Hamner Avenue Staging Area	Ontario	Commercial	3 acres
Hellman Avenue Staging Area	Chino	Agriculture	5 acres
Circle City Substation Staging Area	Corona	Industrial	5 acre
South Temescal Street Staging Area	Corona	Industrial	5 acres
Jefferson Substation Staging Area	Corona	Residential	0.5 acre

Sources: City of Chino, 2014a; City of Corona, 2004; City of Ontario, 2015b; City of Ontario, 2007; City of Ontario, 2008; City of Eastvale, 2012; Riverside County, 2014; City of Chino, 2011; City of Norco, 2012; Riverside County, 2008

Similarly, generalized zoning categories that would be crossed by the Proposed Project are listed in Table 4.10-3: Proposed Project Zoning Designations Crossed. Zoning designations were classified according to the following methodology:

- All agricultural zones and preserves were included in the agriculture designation
- All commercial zones—including individual offices, office and business parks, and retail centers—are grouped in the commercial designation
- Flood plains and channels in the Proposed Project area are included in the flood management designation
- All industrial zones, including light and general, are included in the industrial designation
- All manufacturing zones—including general, light, medium, and heavy—are included in the manufacturing designation
- All mixed use zones within the Proposed Project area are included in the mixed use designation
- All parks, golf courses, community centers, conserved lands, trails, and specified utility easements are included in the park/recreation/open space designation
- All public uses (e.g., hospitals, schools, government buildings, and similar areas) are included in the public facility designation
- All residential zones—including single- and multiple-family dwellings, estates, condominiums, apartments, and mobile home parks, as well as the Agriculture - Low Density zone in the City of Norco (which provides for the small-plot, single-family agricultural lifestyle) and the Planned Residential Development zone in the City of Eastvale—are grouped in the residential designation
- Interstate freeways, railroads, and similar areas are included in the transportation designation
- All identified utility facilities, including Mira Loma Substation, are included in the utility designation
- Several areas along and within the Santa Ana River that preclude development are included in the water/watershed designation

The approximate distance of the generalized zoning designations crossed by the Proposed Project are listed in Table 4.10-3: Proposed Project Zoning Designations Crossed. Descriptions of the existing uses, specific land uses, and zoning designations that are crossed by the Proposed Project within each jurisdiction are provided in the subsections that follow.

Table 4.10-3: Proposed Project Zoning Designations Crossed

Proposed Project Component	Location	General Zoning Designation[5]	Approximate Distance/Area[6]
Circle City Substation	Corona	Industrial	19.5 acres
Source Line Route	Corona	Commercial	0.04 mile
		Flood Management	0.6 mile
		Manufacturing	0.81 mile
		Transportation	0.17 mile
Mira Loma-Jefferson 66 kV Subtransmission Line	Ontario	Agriculture	1.05 miles
		Utility	1.09 miles
	Eastvale	Agriculture	0.05 mile
		Manufacturing	0.34 mile
		Residential	1.38 miles
		Specific Plan	0.11 mile
		Water/Watershed	0.44 mile
	Chino	Agriculture	0.13 mile
		Park/Recreation/ Open Space	0.06 mile
		Residential	0.12 mile
	Unincorporated Riverside County	Water/Watershed	0.10 mile
	Norco	Agriculture	0.56 mile
		Commercial	0.34 mile
		Flood Management	0.01 mile
	Corona	Agriculture	0.03 mile
		Public Facility	0.26 mile
		Residential	0.79 mile
Mira Loma Substation Staging Area	Ontario	Specific Plan	3 acres
Ontario Service Center Staging Area	Ontario	Agriculture	1 acre
Hamner Avenue Staging Area	Ontario	Specific Plan	3 acres

[5] Specific zoning designations have been consolidated to reflect general zoning categories for the Proposed Project.
[6] The distance of zoning designations crossed does not equal the total length of the Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line, as portions of the lines are located along ROWs that are outside of classified areas.

Proposed Project Component	Location	General Zoning Designation[5]	Approximate Distance/Area[6]
Hellman Avenue Staging Area	Chino	Agriculture	5 acres
Circle City Substation Staging Area	Corona	Manufacturing	5 acres
South Temescal Street Staging Area	Corona	Manufacturing	5 acres
Jefferson Substation Staging Area	Corona	Agriculture	0.5 acres

Sources: City of Corona, 2009; City of Eastvale, 2014; City of Ontario, 2000; Riverside County Zoning, 2008; City of Chino, 2014; City of Norco, 2012

City of Chino

The Mira Loma-Jefferson 66 kV Subtransmission Line would travel along the western side of Hellman Avenue, which is located in the City of Chino, for approximately 2.0 miles. The entire extent of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Chino is located within existing SCE ROW along The Preserve Specific Plan area. The northernmost portion of The Preserve Specific Plan area—at the intersection of Schleisman Road and Hellman Avenue—is currently under construction. Primarily agricultural and open space uses occur south of where the flood control channel crosses into the City of Chino's eastern boundary along Hellman Avenue.

Land Use Designations

As provided in Table 4.10-2: Proposed Project Land Use Designations Crossed and depicted in Figure 4.10-2: Land Use Designation Map (Subtransmission Line), the Mira Loma-Jefferson 66 kV Subtransmission Line would cross open space, residential, and commercial land uses in the City of Chino. The specific land use designations that would be crossed by the Proposed Project in the City of Chino are discussed in the paragraphs that follow.

The following agricultural land use designation would be crossed in the City of Chino by the Mira Loma-Jefferson 66 kV Subtransmission Line and the potential approximately 5-acre staging area:

- The Agriculture designation provides for agricultural uses, including farming, stables, pastures, and grazing. Public facilities that are necessary for drainage and flood control, reducing water runoff pollutants, public communications, and other publicly owned facilities necessary to provide for public safety or health—as well as existing residential structures and uses—are also permitted.

The following commercial land use designation would be crossed in the City of Chino by the Mira Loma-Jefferson 66 kV Subtransmission Line:

- The Neighborhood Commercial zone is intended for shopping centers for daily shopping needs with a service radius of approximately 1 mile.

The following park/recreation/open space land use designation would be crossed in the City of Chino by the Mira Loma-Jefferson 66 kV Subtransmission Line:

- The Open Space/Recreation Buffer Trail land use designation includes Ayala Park, neighborhood parks, civic plazas, community centers, and other open space areas that provide recreation space, passive open space, and joint-use community activities.

The following residential designations would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line within The Preserve Specific Plan area:

- The RD2 designation provides for large lot residential development in a non-urbanized environment. These areas are intended to either create or maintain areas currently typified by large lot development and that are dominated by semi-rural uses.

- The RD4.5 designation provides for the preservation of existing single-family suburban residential neighborhoods.

- The RD8 land use designation is intended for new and existing single-family neighborhoods with slightly higher densities. This designation is typically located in older existing neighborhoods in the City of Chino and in transition zones between lower-density residential uses and higher-density commercial, industrial, and multi-family residential land uses.

Zoning

As previously described, the portion of the City of Chino that is crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line is located within The Preserve Specific Plan area. In addition, one potential approximately 5-acre staging area has been identified along Hellman Avenue in The Preserve Specific Plan area. The approximate distances of each zoning designation that would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in The Preserve Specific Plan area are listed in Table 4.10-3: Proposed Project Zoning Designations Crossed. The Mira Loma-Jefferson 66 kV Subtransmission Line and the potential staging area would be located within the following agricultural zoning designations in The Preserve Specific Plan area:

- The Agriculture/Open Space-Natural designation accommodates limited agricultural and open space uses, such as trails, crop farming, open space, and passive recreation. This zone is also intended to protect sensitive and important biological resources from incompatible land uses that could damage them. Land uses in this designation must comply with the Resource Management Plan that was prepared as part of the environmental mitigation program for The Preserve Specific Plan area to protect biological resources.

The following commercial zoning designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line within The Preserve Specific Plan area:

- This Neighborhood Commercial designation is intended to provide for the retail commercial, office, and service needs of the community, as well as to accommodate small-scale centers of free-standing buildings that are designed to minimize impacts on adjacent residential uses, and to complement the physical character of adjacent residential neighborhoods.

The following park/recreation/open space zoning designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line within The Preserve Specific Plan area:

- The Open Space-Natural designation is intended to accommodate permanent, natural open space, wildlife preserves, natural drainage and stream courses, and cultural and historic resources, and to protect natural plant and animal habitats. The designation also permits the use of open space areas for crop farming, outdoor recreational uses, and other low-intensity uses in some instances.

The following residential zoning designations are crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line within The Preserve Specific Plan area:

- The Estate Residential Zone is intended to provide a rural residential area synonymous with San Bernardino County. The predominant development pattern accommodates single-family, low-profile homes set on large lots. Open space and landscaping should dominate the visual scene, and equestrian uses and trails should be an integral feature within this designation.

- The Low Density Residential designation provides for the development of a variety of single-family detached or attached homes. The intent of this designation is to allow the flexibility to offer a multitude of product types and styles for both attached and detached homes that appeal to a range of market segments. Typical styles include single-family homes, clustered residences, condominiums, and courtyard products.

- The Medium Density Residential designation accommodates the development of a wide range of product types, from small lot single-family detached/attached to multi-family residential dwellings, and the development standards allow a variety of densities and styles. Typical styles include detached residences, duplexes, townhomes, clustered residences, courtyard products, pocket lots, postage stamp lots, and condominiums for sale or rent.

City of Corona

The proposed Circle City Substation site, distribution getaways, Source Line Route, associated fiber optic cable, the southern portion of the Mira Loma-Jefferson 66 kV Subtransmission Line, potentially two approximately 5-acre staging areas, and one approximately 0.5-acre staging area would located within the City of Corona. The proposed Circle City Substation and distribution getaways site is located in an industrial area in the eastern portion of the City of Corona. The proposed Circle City Substation site is outside of the City of Corona's redevelopment area, on a lot that was previously used for industrial purposes. The proposed Source Line Route would cross developed areas that are generally industrial and commercial near the proposed Circle City Substation site, as well as residential areas west of Interstate (I-) 15 and commercial and retail development north of Grand Boulevard. The southernmost approximately 1.7 miles of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would primarily travel through industrial and commercial areas north of the existing Corona Substation and through densely populated residential areas along River Road.

Land Use Designations

As previously described, the proposed Circle City Substation site is located outside of the City of Corona's redevelopment area, known as "The Gateway." The proposed substation and the distribution getaways site are located in and surrounded by land designated as General Industrial by the City of Corona General Plan. Table 4.10-2: Proposed Project Land Use Designations Crossed lists the approximate distance/area of generalized land use designations that would be crossed by the Proposed Project. Figure 4.10-1: Land Use Designation Map (Source Line Route) and Figure 4.10-2: Land Use Designation Map (Subtransmission Line) depict the general land use designations crossed by the Proposed Project in the City of Corona. A description of the

specific land use designations crossed by the Proposed Project, as described in the City of Corona General Plan, are provided in the following paragraphs.

The Circle City Substation site is bordered by other industrial land. Across Leeson Lane, to the north of the parcel, is an area designated as Mixed Use 2: Industrial and Commercial. This land use designation is meant to accommodate a site exclusively for light industrial uses or a mix of industrial and commercial uses.

The proposed Source Line Route would cross land designated for industrial, commercial, residential, and open space uses. A segment of the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line would cross land designated as open space. The Mira Loma-Jefferson 66 kV Subtransmission Line would also cross residential areas and land designated for a school, as well as industrial and utility uses.

As previously identified, the proposed Source Line Route and associated fiber optic cable, as well as the southern portion of the Mira Loma-Jefferson 66 kV Subtransmission Line, would cross through four specific plan areas in the City of Corona: the Downtown Revitalization (SP-98-1), North Main Street District (SP-99-1), Corona Magnolia (SP-01-2), and The Township in Corona (SP-82-1) specific plan areas.

The following commercial land use designation would be crossed in the City of Corona by the proposed Source Line Route:

- The General Commercial designation accommodates a broad range of commercial uses that serve local neighborhoods, the community, and visitors. Typical uses include supermarkets, department stores, apparel stores, theaters, and non-retail uses, such as offices and banks. These areas also contain primarily auto-oriented uses, such as hotels and motels, car dealerships, auto service and repair businesses, and construction suppliers.

The following industrial land use designations would be crossed in the City of Corona by the proposed Circle City Substation Site, the proposed Source Line Route, the Mira Loma-Jefferson 66 kV Subtransmission Line, and two potential approximately 5-acre staging yards:

- The General Industrial land use designation encompasses a wide range of manufacturing, construction, transportation, wholesale trade, warehousing, vehicle storage, and related service activities, as well as mineral resource mining activities.

- The Light Industrial land use designation allows for low-intensity, non-polluting manufacturing operations, research and development, e-commerce, wholesale activities, and distribution facilities. It also includes campus-style industrial and business parks. This designation is intended to provide an employment base for the City of Corona’s residents and to provide space for “clean” industries that do not generate nuisance or unsafe levels of noise, vibration, air emissions, or liquid and solid waste.

The following mixed use land use designations would be crossed in the City of Corona by the proposed Source Line Route:

- The Mixed Use 1 – Commercial and Residential designation allows for the development of properties exclusively for retail commercial and office uses, or an integrated mix of commercial and residential uses along arterial streets or at primary community activity centers and transit stations. A range of commercial and office uses is permitted, primarily to serve neighborhood and community needs. This is a designation that is included as part of a specific plan.

- The Mixed Use 2 – Industrial and Commercial designation accommodates a site exclusively for light industrial uses or a mix of industrial and commercial uses, typically consisting of clean types of industries, typified by light manufacturing, research and development, and e-commerce. This is a designation that is included as part of a specific plan.

The following public facility land use designation would be crossed in the City of Corona by the Mira Loma-Jefferson 66 kV Subtransmission Line:

- Schools are a specific category of public or institutional land use designation.

The following park/recreation/open space land use designation would be crossed in the City of Corona by the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line:

- The Open Space General land use designation applies to lands permanently committed to or protected for open space purposes due to their value as habitat, topography, scenic quality, public safety, or a comparable purpose.

The following residential land use designations would be crossed in the City of Corona by the proposed Source Line Route, the Mira Loma-Jefferson 66 kV Subtransmission Line, and one potential approximately 0.5-acre staging yard within Jefferson Substation:

- The Low Density Residential designation accommodates detached single-family homes and is characterized by lots measuring between 7,200 square feet and 10,000 square feet.

- The Medium Density Residential land use designation allows for attached housing types—such as townhomes and duplexes, as well as single-family detached housing in a condominium form of development—within a smaller average lot area per dwelling to facilitate the clustering of units in planned developments to provide expanded recreational amenities and preserve open spaces and topography.

- The High Density Residential designation accommodates multi-family residential development, such as garden apartments and condominiums. On larger parcels within this designation, common open space areas, landscaping, and other site amenities are typically provided.

- The Urban Density Residential land use designation provides for high-density residential development, primarily through innovative infill design in the City of Corona's "opportunity districts and sites." As provided in the City of Corona General Plan, each opportunity district and site includes unique issues that require additional policies than those provided in the rest of the General Plan's Land Use Element; some opportunity sites may have immediate land use changes, while others will gradually transition to revitalize the City of Corona's downtown area.

Zoning

As previously described, the proposed Circle City Substation site, distribution getaways, Source Line Route, associated fiber optic cable, and the southern portion of the Mira Loma-Jefferson 66 kV Subtransmission Line would be constructed within the City of Corona. Specific zoning descriptions, as provided in the City of Corona Municipal Code, are listed in Table 4.10-3: Proposed Project Zoning Designations Crossed and are discussed in the paragraphs that follow.

The proposed approximately 19.5-acre Circle City Substation and the distribution getaways would be constructed in a manufacturing zone, according to the City of Corona's zoning map. The site is bordered to the east and west by other lands zoned for manufacturing. The properties located north of Leeson Lane and east of I-15 are within the Corona Magnolia Specific Plan area. The proposed Circle City Substation site is bordered by Leeson Lane to the north, which is adjacent to commercial land zoned as a business park.

The proposed Source Line Route would also cross land zoned for manufacturing. The proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line would cross land zoned as Residential and land designated as open space. The proposed Source Line Route would also cross areas zoned as Business Park, Commercial, Industrial, Mixed Uses, Flood Plain, and Mobile Home Park. The Mira Loma-Jefferson 66 kV Subtransmission Line would also cross land zoned as Residential and School along River Road.

As described in the land use discussion for the City of Corona, the proposed Source Line Route and associated fiber optic cable, as well as the southern portion of the Mira Loma-Jefferson 66 kV Subtransmission Line, would cross through four specific plan areas in the City of Corona.

The following commercial zones would be crossed in the City of Corona by the proposed Source Line Route:

- The Restricted Commercial Zone allows for a limited range of commercial uses that serve local community needs, provide a buffer between residential properties and higher-intensity uses, and are encouraged to be compatible with adjacent land uses. This designation is generally applied to areas that are appropriate to serve the daily shopping needs within the neighborhood, including restaurants, small businesses, and studios.

- The Commercial Planning Area is part of SP-01-2 and offers the opportunity for large-scale retail and supporting commercial uses along the I-15 ROW access ramp and along Magnolia Avenue. This area enables general commercial uses that benefit from immediate freeway access.

- The General Commercial District is part of SP-98-1 and provides for lower-intensity uses that serve community and subregional needs, with an emphasis on convenient automobile access while incorporating efficient, safe, and attractive on-site pedestrian circulation.

- The Transitional Commercial District is part of SP-98-1. It provides a buffer commercial district between the vehicular-oriented 6th Street Commercial District and the more pedestrian-oriented Downtown District. Governmental uses are also permitted, as are education and child-care facilities, offices, and restaurants.

- The Transit Commercial District is located within SP-99-1. This district promotes the development and use of mass transit, carpooling, and related uses. A variety of commercial uses are permitted, including shops and restaurants that are specially designed and built to meet the needs of nearby residents, commuters, and transit users.

- One of the Business Park Districts is part of SP-01-2. This district allows flexibility in the mix of land uses, which could include office-type development; clean, light-industrial development; and limited commercial uses that support and enhance business park uses.

- Another Business Park District is located within SP-98-1. This district provides for the development of attractive, well-planned, light industrial/business park uses to serve the needs of the community, as well as subregional users. The district can also serve as an area for industrial arts educational facilities, home furnishings and repair, home improvement centers, wholesale businesses, light manufacturing, research and development, and other support activities for the City of Corona's commercial and office districts.

The following floodplain zone would be crossed by the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Corona:

- The Flood Plain (FP) 1 Zone allows for crop and tree farming, truck gardening, and other similar agricultural uses; parks and recreation areas; and public utility infrastructure for transmission and local distribution purposes.

The following industrial zone would be crossed in the City of Corona by the proposed Source Line Route:

- The Industrial District is part of SP-99-1 and it provides the opportunity for light and medium industrial uses; heavy industrial uses are not permitted.

The following manufacturing zones would be crossed in the City of Corona by the proposed Circle City Substation site and distribution getaways, the proposed Source Line Route, the Mira Loma-Jefferson 66 kV Subtransmission Line, and one potential approximately 5-acre staging area:

- The Heavy Manufacturing Zone allows for manufacturing uses that may produce noise, dust, and heat, and for uses that require the utilization or mixing of toxic chemicals. It is primarily situated at locations removed from commercial and residential areas.

- The Light Manufacturing Zone provides for manufacturing uses that are generally passive, as this zone can be established adjacent to residential and commercial uses.

- The General Manufacturing Zone allows for the establishment of the most common manufacturing uses and processes, including the treatment, processing, and fabrication of goods from raw materials. This zone is located in areas that are well suited for the manufacturing of goods that require night-shift work, frequent truck activity, and the transfer of bulk processed goods.

The following residential zones would be crossed in the City of Corona by the proposed Source Line Route and the Mira Loma-Jefferson 66 kV Subtransmission Line:

- The R-3 Multiple Family Residential Zone is intended as a residential district for single-family dwellings, duplexes, and multiple-family residences.

- The Mobile Home Park Zone allows for a combination of mobile homes in planned, integrated mobile home parks, according to the standards consistent with the protection of the health, safety, and welfare of the city.

- The R1-7.2 Single Family Residential Zones are intended as districts for single-family houses, with no more than one dwelling and customary accessory building on each lot. Agricultural crops are permitted subject to the regulations provided for the Agricultural (A) zone.

- The A-14.4 Single-Family Residential Zone allows for districts of single-family homes with no more than one dwelling and a customary accessory building upon each lot. Agricultural pursuits are permitted subject to the regulations set forth in the A zone.

- The Single Family District is part of SP-98-1 and this district protects the integrity of the City of Corona's historic residential neighborhoods within the Grand Boulevard circle. Small, single-lot, neighborhood-serving convenience stores—without off-street parking and on corner lots only—may also be allowed on a very limited basis, subject to the approval of a Conditional Use Permit.

- The Single Family Condominium District is part of SP-99-1. The intent of this district is to provide the opportunity for village-like residential uses to be located within the North Main Street District Specific Plan area, near shopping and public transit. Single-family condominiums can include both attached and detached units.

- The Medium Density Residential Development Area is part of SP-82-1 is intended as a planned residential district of single-family or medium-density, multiple-family dwellings with one or more dwellings on the same lot.

The following public facility zone would be crossed in the City of Corona by the Mira Loma-Jefferson 66 kV Subtransmission Line:

- The Mira Loma-Jefferson 66 kV Subtransmission Line would cross land zoned as School along River Road.

The following agricultural zone would be crossed in the City of Corona by one potential approximately 0.5-acre staging yard within Jefferson Substation:

- The Agricultural Zone is intended as a district for general agricultural purposes, with appropriate single-family residences and customary accessory buildings.

City of Eastvale

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross through the western portion of the City of Eastvale near the City of Ontario's southern border and along the Santa Ana River corridor. The western portion of the City of Eastvale consists mostly of residential and agricultural uses, including dairy farms. Conserved open space land is located in the southern portion of the City of Eastvale, adjacent to the Santa Ana River.

Land Use Designations

The City of Eastvale was incorporated in October 2010 and its General Plan was adopted in June 2012. Table 4.10-2: Proposed Project Land Use Designations Crossed provides the approximate distance/area of each land use designation that would be crossed by the Proposed Project, while Figure 4.10-2: Land Use Designation Map (Subtransmission Line) depicts the general land use designations that would be crossed by the Proposed Project in the City of Eastvale. The specific land use designations that would be crossed by the proposed Mira Loma-Jefferson 66 kV Subtransmission Line are described in the paragraphs that follow.

The following agricultural land use designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale, where the line turns east from Hellman Avenue toward the Santa Ana River:

- The Agriculture designation provides for agricultural land uses that include row crops, groves, nurseries, dairies, poultry farms, processing plants, and other related uses. One single-family residence per 10 acres is permitted, except as otherwise specified by a policy or an overlay.

The following commercial land use designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale between American Heroes Park and the flood control channel:

- The Business Park designation provides for employee-intensive uses, including research and development, technology centers, corporate office, "clean" industry, and supporting retail uses.

The following industrial land use designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale:

- The Light Industrial designation is applied to areas outside of community centers. This designation applies to areas where a mixture of residential, commercial, office, entertainment, educational, recreational uses, or other uses is planned.

The following park/recreation/open space land use designations would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale:

- The Open Space Recreation designation allows for activities and passive recreational uses, such as parks, trails, campgrounds, athletic fields, golf courses, and off-road vehicle parks.

- The Open Space/Conservation designation provides for the protection of open space for natural hazard protection, and natural and scenic resource preservation, as well as agriculture existing as of 2012.

The proposed Mira Loma-Jefferson 66 kV Subtransmission Line would cross approximately 0.35 mile of federal land that is managed by the United States (U.S.) Army Corps of Engineers for flood control purposes adjacent to the Santa Ana River.

The following residential land use designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale:

- The Medium Density Residential land use designation provides for conventional single-family detached houses and suburban subdivisions.

The following water/watershed land use designation would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale:

- The Water land use designation accommodates watercourses, including natural or controlled stream channels. This designation includes bodies of water and natural or artificial drainage corridors.

Zoning

The general zoning designations that would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Eastvale are listed in Table 4.10-3: Proposed Project Zoning Designations Crossed by the approximate distance crossed by the subtransmission line. The Mira Loma-Jefferson 66 kV Subtransmission Line would cross through the following agricultural zoning designation in the City of Eastvale:

- The A-2 Heavy Agriculture zoning designation allows for most agricultural uses, such as animal keeping, crop production, farm stands, grazing, and kennel and cattery; agricultural workers' housing, single-family or second-unit dwelling, home occupations, or a mobile home; some recreation, education, and public assembly uses, such as fraternal lodges, libraries, community centers, social halls, parks, community recreation facilities,

religious institutions, and private schools; beauty shops, feed and grain sales, nurseries; some business operations and service uses, such as agricultural equipment sales and repair, animal hospitals, commercial stables and riding academies, and truck transfer stations; and industrial, manufacturing, and processing uses.

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross through the following industrial zone in the City of Eastvale:

- The Industrial Park zone is intended for a planned industrial area with special attention to circulation, parking, utility needs, and aesthetics.

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross through the following residential zones in the City of Eastvale:

- The R-1 One Family Dwellings zone allows for single-family or second-unit dwelling, family day care, group homes, mobile homes, supportive and transitional housing, and religious institutions (with a Conditional Use Permit).

- The Planned Residential Developments (PRD) Zone allows for multiple-family, second-unit, or single-family dwellings, large or small family day care, group homes, home occupations, mobile homes, mobile home parks (with a Conditional Use Permit), supportive and transitional housing, public recreation, nonprofit community centers, social halls, parks, community recreation facilities, religious institutions, and temporary real estate offices. A PRD can be used to address site-specific conditions, or can be proposed to allow the development of residential products that cannot be accommodated by standard residential zoning.

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross the following water/watershed zone in the City of Eastvale:

- The W-1 Watercourse, Watershed, and Conservation zone designates land subject to periodic flooding and other hazards that is not suitable for permanent occupancy, and it allows for apiaries, aquaculture, golf courses, meteorological towers, field, tree, and brush crops, flower and herb gardening, and grazing. With a Conditional Use Permit, the zone allows for outdoor commercial recreation, public or private recreation, recreational vehicle parks, and hunting clubs.

A portion of the Mira Loma-Jefferson 66 kV Subtransmission Line that would be located within SCE's approximately 500-foot-wide easement crosses through the Chino Airport Influence Area in the northern portion of the City of Eastvale. Properties within this area are subject to regulations governing issues such as development intensity, density, and noise.

The Mira Loma-Jefferson 66 kV Subtransmission Line would also cross along the southern portion of the Archibald-Cloverdale Policy Area. This policy area is intended to provide guidance in selecting from a range of potential options for development in the event that San Bernardino County's Comprehensive Land Use Plan for the Chino Airport is amended in the future to allow for potential commercial development.

City of Norco

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross through the City of Norco south of Bluff Road to Corydon Avenue. This portion of the City of Norco contains primarily small-plot agriculture and single-family residential uses. Limited commercial uses also occur along River Road within the City of Norco on land that would be crossed by the Proposed Project.

Land Use Designation

The Proposed Project would primarily cross land designated for residential use within the City of Norco, as provided in Table 4.10-2: Proposed Project Land Use Designations Crossed and shown in Figure 4.10-2: Land Use Designation Map (Subtransmission Line). Residential land use would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Norco under the Residential Agricultural designation. According to the Land Use Element of the City of Norco's General Plan, this designation provides for small-plot, single-family land uses that permit any accessory structures that are incidental to the primary residence, and land uses permitted in keeping with the city's small plot agriculture/animal-keeping/equestrian lifestyle.

One commercial land use also would be crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Norco along River Road—the Commercial Community use. This designation encompasses general commercial uses, including commercial neighborhood and commercial arterial.

Zoning

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross residential and commercial zones within the City of Norco along River Road, as provided in Table 4.10-3: Proposed Project Zoning Designations Crossed. A residential area classified as A-1 Agricultural - Low Density Zone is intended to provide and encourage the development of agriculturally oriented low-density living areas designed to take advantage of the rural environment, as well as the outdoor recreation potential of the community, by maintaining contiguous undeveloped open land on every residential lot.

A small commercial area zoned as Commercial General is also crossed by the Mira Loma-Jefferson 66 kV Subtransmission Line. This designation allows for retail and commercial uses that are centered around retail, eating, and drinking establishments, and entertainment to serve the needs of the community.

City of Ontario

The Mira Loma-Jefferson 66 kV Subtransmission Line would extend southward from the existing Mira Loma Substation in the City of Ontario. The proposed Mira Loma-Jefferson 66 kV Subtransmission Line would cross approximately 2.1 miles within the City of Ontario. In addition, three potential staging area locations, ranging between 1 and 5 acres in size, have been identified in the City of Ontario. Currently, the land located within SCE's easement and around the existing Mira Loma Substation primarily consists of agricultural uses and includes several dairy farms.

Land Use Designations

The existing Mira Loma Substation is located on office/commercial land designated as Employment. This land use designation allows for corporate offices, technology centers, clean industry, light manufacturing, warehousing/distribution, and assembly-type uses. Table 4.10-2: Proposed Project Land Use Designations Crossed lists the miles of generalized land use designations that would be crossed by the Proposed Project. The general land use designations that would be crossed by the Proposed Project in the City of Ontario are shown in Figure 4.10-2: Land Use Designation Map (Subtransmission Line). The specific land use designations that would be crossed by the Proposed Project in the City of Ontario are discussed in the paragraphs that follow.

One potential staging area has been identified at the existing Mira Loma Substation, and another at SCE's existing Ontario Service Center. These areas are designated as Employment, which accommodates corporate offices, technology centers, clean industry, light manufacturing, warehousing/distribution, and assembly-type uses.

One potential staging area, measuring approximately 3 acres, has been identified north of the existing Mira Loma Substation on land designated as Business Park/Industrial within the Edenglen Specific Plan area. The Business Park/Light Industrial provides for the development of land uses such as research and development, light manufacturing, technology development, medical, entertainment facilities, wholesale, retail sales, professional offices and warehousing facilities.

The two following park/recreation/open space land use designations would be crossed by the proposed Mira Loma-Jefferson 66 kV Subtransmission Line in the City of Ontario:

- The Open Space – Non-Recreational designation provides for open space that includes utility easements and drainage channels that may be used for multiple uses, such as trails, greenways, joint-use recreational amenities, landscaped parkways/medians, parking lots, and nurseries.

- The Open Space – Parkland designation allows for recreational facilities, such as tot-lots, parks, golf courses, and sports complexes, as well as joint-use facilities with schools, utilities, and drainage facilities.

Zoning

The proposed Mira Loma-Jefferson 66 kV Subtransmission Line would originate at Mira Loma Substation and travel southbound to Corona Substation. In the City of Ontario, the Mira Loma-Jefferson 66 kV Subtransmission Line would cross three approved specific plan areas—the Rich-Haven Specific Plan, the Grand Park Specific Plan, and the Subarea 29 Specific Plan—within an existing SCE easement, as provided in Table 4.10-3: Proposed Project Zoning Designations Crossed.

The existing Mira Loma Substation and portions of the Mira Loma-Jefferson 66 kV Subtransmission Line—which are located in areas that have specific plans in process, but are not yet approved—are situated within agricultural land zoned as Agricultural Preserve Specific Plan

in the City of Ontario. This designation provides for the continuation of agricultural uses and agricultural support uses on an interim basis in the areas that the New Model Colony General Plan may designate for more intensive urban uses in the future. This designation is further intended to protect vital agricultural uses by limiting land use activity to those uses that are compatible and supportive of agriculture and related uses.

The portions of the Mira Loma-Jefferson 66 kV Subtransmission Line that are located within the Rich-Haven and Subarea 29 specific plan areas cross the SCE Easement/Gas Easement Open Space designation as part of the Rich-Haven and Subarea 29 specific plan areas. A potential staging area, measuring approximately 3 acres, has been identified off of Hamner Avenue, within the Rich-Haven Specific Plan boundaries, and this area is zoned as Mixed Use. Two other potential staging areas have been identified within the existing Mira Loma Substation and at SCE's existing Ontario Service Center.

Unincorporated Riverside County

South of the Santa Ana River, the Mira Loma-Jefferson 66 kV Subtransmission Line would cross an unincorporated portion of Riverside County for approximately 0.1 mile, as shown in Table 4.10-2: Proposed Project Land Use Designations Crossed. This area is located within a flood-management area for the Prado Basin and is considered unsuitable for development.

Land Use Designation

As discussed in Section 4.10.1.1 Riverside County, the portion of the Mira Loma-Jefferson 66 kV Subtransmission Line that would be located within unincorporated Riverside County is in the TCAP boundaries in an area designated as Open Space – Conservation. The Watercourse Overlay designates watercourses, including natural or controlled stream channels and flood control channels. The purpose of this designation is to ensure that any special policies associated with open space, flood control, or habitat protection are considered. This portion of the Proposed Project is depicted in Figure 4.10-2: Land Use Designation Map (Subtransmission Line).

Zoning

The portion of the Mira Loma-Jefferson 66 kV Subtransmission Line that would cross an unincorporated area of Riverside County and is within the TCAP boundaries is zoned as W-1 Watercourse, Watershed, and Conservation Area. This designation covers land that is not suitable for permanent occupancy due to periodic flooding and other hazards. Table 4.10-3: Proposed Project Zoning Designations Crossed provides the approximate distance of this portion of the Mira Loma-Jefferson 66 kV Subtransmission Line within unincorporated Riverside County.

4.10.1.5 Habitat Conservation Plans/Natural Community Conservation Plans

The proposed Circle City Substation and approximately 11.4 miles of the proposed source line and Mira Loma-Jefferson 66 kV Subtransmission Line routes would be located in Riverside County. The entire Proposed Project area in Riverside County is within the boundaries of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) area. The Western Riverside County MSHCP is a comprehensive, multi-jurisdictional plan focusing on conservation of species and their associated habitats in western Riverside County. This plan is

one of several large, multijurisdictional habitat-planning efforts in southern California with the overall goal of maintaining biological and ecological diversity within a rapidly urbanizing region. Section 4.4 Biological Resources provides further information regarding the Western Riverside County MSHCP. There are no Natural Community Conservation Plans (NCCPs) that were identified within the Proposed Project area.

4.10.2 Regulatory Setting

4.10.2.1 Federal

Code of Federal Regulations Title 14

All airports and navigable airspace not administered by the U.S. Department of Defense are under the jurisdiction of the Federal Aviation Administration (FAA). Title 14, Part 77 of the Code of Federal Regulations (CFR) establishes the standards and required notification for obstructions affecting navigable airspace. In general, construction projects exceeding 200 feet in height—or those extending at a ratio greater than 100 to 1 (horizontal to vertical) from a public or military airport runway more than 3,200 feet long out to a horizontal distance of 20,000 feet—are considered potential obstructions and require FAA notification. In addition, construction projects extending at a ratio greater than 50 to 1 (horizontal to vertical) from a public or military airport runway measuring 3,200 feet or less out to a horizontal distance of 10,000 feet are considered potential obstructions and require FAA notification. Title 14, Part 133 of the CFR also requires an operating plan to be developed in coordination with and approved by the local FAA Flight Standards District Office that has jurisdiction over the area where the helicopter use would be conducted. FAA recommendations pertaining to the Proposed Project are discussed further in Section 4.8 Hazards and Hazardous Materials and Section 4.16 Transportation and Traffic.

4.10.2.2 State

CPUC General Order 131-D

As described in 4.10.1.4 General Plan Land Use Designation, Existing Land Use, and Zoning, the CPUC has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC G.O. 131-D, Section XIV.B, “Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the CPUC’s jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters.” Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the counties and cities’ regulations are not applicable as the counties and cities do not have jurisdiction over the Proposed Project. Accordingly, the following discussion of local land use regulations is provided for informational purposes only.

4.10.2.3 Local

As previously described, the following discussion of local land use regulations is provided for informational purposes only. As summarized in Table 4.10-1: Land Use Areas Crossed by Proposed Project Components, the Proposed Project would be located within five different cities, as well as a small section of unincorporated Riverside County. The general plans were reviewed

for relevant local policies for the cities of Chino, Corona, Eastvale, Norco, and Ontario; for all specific plan areas that would be crossed by the Proposed Project; and for Riverside County. Table 4.10-4: Local Land Use Policies provides the relevant local policies from each of the general and area plans for the Proposed Project. No relevant policies were identified in the following:

- City of Chino General Plan,
- the Corona Municipal Airport Comprehensive Land Use Plan,
- the City of Norco General Plan,
- City of Ontario Policy Plan, The Preserve Specific Plan, or
- Archibald-Cloverdale Specific Plan (as provided in the Eastvale Area Plan).

4.10.3 Significance Criteria

The significance criteria for assessing the impacts to land use and planning are derived from the California Environmental Quality Act (CEQA) Environmental Checklist. According to the CEQA Environmental Checklist, a project causes a potentially significant impact if it would:

- Physically divide an established community

- Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect

- Conflict with any applicable habitat conservation plan (HCP) or NCCP

4.10.4 Impact Analysis

4.10.4.1 Would the project physically divide an established community? – No Impact

Construction and operation of the Proposed Project would not physically divide an existing established community. The proposed Circle City Substation site would be located in the City of Corona within an industrial area that is zoned for Heavy Manufacturing and is not adjacent to residential uses. Many different land use and zoning designations would be crossed by the Proposed Project, as provided in Table 4.10-2: Proposed Project Land Use Designations Crossed and Table 4.10-3: Proposed Project Zoning Designations Crossed. The proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would replace an existing subtransmission line along the same alignment within existing SCE ROWs. SCE would acquire new easement rights for a 30-foot-wide ROW to accommodate the Source Line Route for a distance of approximately 700 feet along public streets in the City of Corona.

Table 4.10-4: Local Land Use Policies

City/ County	Component	Document	Policy
Riverside County	Mira Loma-Jefferson 66 kV Subtransmission Line	Riverside County General Plan	LU 5.4: Ensure that development and conservation land uses do not infringe upon existing public utility corridors, including fee-owned ROW and permanent easements, whose true land use is that of "public facilities." This policy will ensure that the "public facilities" designation governs over what otherwise may be inferred by the large scale general plan maps.
			LU 25.1: Accommodate the development of public facilities in areas appropriately designated by the General Plan and area plan land use maps.
		Temescal Canyon Area Plan	TCAP 5.12: Discourage utility lines within the river corridor. If approved, lines shall be placed underground where feasible and shall be located in a manner to harmonize with the natural environment and amenity of the river.
City of Corona	Circle City Substation, Source Line Route	City of Corona General Plan	6.1.14: Ensure that, to the extent possible, all pipelines and electrical transmission lines are placed underground.
			7.12.2: Work with the Southern California Gas Company, SCE, and the city Department of Power and Water to ensure that adequate electrical facilities are available to meet the demand of existing and future developments.
			7.12.3: Continue to provide for the undergrounding of new and existing electrical distribution lines unless it is determined not to be economically or practically feasible as a result of significant environmental or other constraints.
			7.13.4: Promote the extension of the regional fiber optic network into the city.

City/ County	Component	Document	Policy
City of Corona (cont.)	Source Line Route	Downtown Revitalization Specific Plan (SP-98-1)	Provide a more unified and aesthetically pleasing streetscape on Main and 6th streets, as well as Grand Boulevard.
		North Main Street District Specific Plan (SP-99-1)	Create a revitalized North Main Street district that is attractive, economically vibrant and dynamic.
		Corona Magnolia Specific Plan (SP-01-2)	Policy 7.12.3: Continue to provide for the undergrounding of new and existing electrical distribution lines unless it is determined not to be economically or practically feasible as a result of significant environmental or other constraints.
	Mira Loma-Jefferson 66 kV Subtransmission Line	The Township in Corona Specific Plan (SP-82-1)	No specific policies are provided to address electric infrastructure.
City of Eastvale	Mira Loma-Jefferson 66 kV Subtransmission Line	City of Eastvale General Plan	Action LU-31.1: Monitor the capacities of infrastructure systems and public services in coordination with service providers, utilities, and outside agencies. Policy C-29: Locate new and relocated utilities underground when possible. All remaining utilities shall be located or screened in a manner that minimizes their visibility by the public. Policy DE-16: The City will seek to reduce the unsightly appearance of overhead and aboveground utilities by placing them underground as new development occurs. Action DE-16.1: To the extent feasible, new utility facilities, including electrical transformers, water backflow preventers, and similar items, should be located underground. Action DE-16.2: Require that development on sites with existing overhead utilities be required to place these facilities underground where consistent with the guidelines of the electrical utility. Action DE-16.3: As funding becomes available, the City will underground utilities in areas where development has already occurred.
			EAP 2.4: Enhance the safety of land uses within the Chino Airport Safety Zones by adhering to policies in the Airport sections of the Land Use and Noise Elements.

City/ County	Component	Document	Policy
City of Ontario	Mira Loma-Jefferson 66 kV Subtransmission Line	Rich-Haven Specific Plan	Utilize transportation, utility, and greenways/open space networks to establish clear edges and boundaries.
			Incorporate electrical transmission corridors and similar elements to form "edges" for residential neighborhoods and centers and/or accommodate public greenways, trails, and corridors.
			Incorporate existing major utilities into the overall fabric of the community.
		Subarea 29 Specific Plan	SCE will provide electricity to the site from existing facilities in the vicinity of the site. Proposed on-site facilities will be located underground.
		Edenglen Specific Plan	5.6.3 Electricity: SCE will provide electricity to the Project Site from existing facilities in the vicinity of the Project Site. Proposed new facilities to serve the project will be owned and operated by the City of Ontario and located underground.

Sources: City of Corona, 2004; City of Corona, 2011; City of Corona, 2014; City of Corona, 2002; City of Corona, 1983; City of Ontario, 2015; City of Ontario, 2007; City of Ontario, 2008; City of Eastvale, 2012; City of Ontario, 2009; Riverside County, 2008; Riverside County, 2014; City of Chino, 2011; City of Norco, 2012

In addition, upgrades to SCE's existing, approximately 30-foot-wide easement along River Road would be required for a distance of approximately 1.2 miles to accommodate the proposed Mira Loma-Jefferson 66 kV Subtransmission Line. The proposed Source Line Route would involve the construction of new lines along city streets within existing utility corridors. Because the substation would be constructed in an industrial area, the proposed Source Line Route would be situated along existing roads and within existing utility corridors, and because the proposed Mira Loma-Jefferson 66 kV Subtransmission Line would replace an existing subtransmission line, the Proposed Project would not divide an established community. Therefore, there would be no impact.

4.10.4.2 Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? – No Impact

The majority of Proposed Project activities would occur in the City of Corona, including construction of Circle City Substation and the distribution getaways, installation of the proposed Source Line Route and the fiber optic cable, and construction of the southernmost approximately 1.7 miles of the Mira Loma-Jefferson 66 kV Subtransmission Line. The remainder of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route would cross the cities of Chino, Eastvale, Norco, and Ontario, as well as a small section of unincorporated Riverside County, as provided in Table 4.10-1: Land Use Areas Crossed by Proposed Project Components.

As previously discussed in Section 4.10.1.4 General Plan Land Use Designation, Existing Land Use, and Zoning, the CPUC's jurisdiction over electric power line projects and substations exempts the Proposed Project from local land use regulations pursuant to CPUC G.O. 131-D. However, SCE considers local policies in the design of its facilities. Table 4.10-4: Local Land Use Policies lists the local policies for each jurisdiction that would be crossed by the Proposed Project. The consistency with these policies is described in the following paragraphs.

Within the City of Corona, the proposed Source Line Route would traverse four separate specific plan areas—the Downtown Revitalization, North Main Street, Corona Magnolia, and The Township in Corona. All of the City of Corona's land use and zoning designations permit the use of utility structures and installations. As described in the Downtown Revitalization Specific Plan and North Main Street District Specific Plan, policies to provide a more aesthetically pleasing streetscape on Main Street, 6th Street, and Grand Boulevard apply to the proposed Source Line Route along Grand Boulevard and North Main Street. The proposed Source Line Route would be installed in an underground configuration along Grand Boulevard and North Main Street.

The Corona Magnolia Specific Plan contains a policy that new and existing electrical distribution lines must be installed underground unless they are determined not to be economically or practically feasible as a result of significant environmental or other constraints. As previously discussed in Section 4.10.1.4 General Plan Land Use Designation, Existing Land Use, and Zoning, the proposed Source Line Route would travel along the northern boundary of this specific plan area within an SCE easement on the south side of East 6th Street. The proposed Source Line Route would be configured overhead and is a subtransmission line, rather than a

distribution line. Because the proposed Source Line Route would travel within a street ROW along the border of this specific plan area (rather than through it), and because undergrounding the line in this location would result in increased environmental impacts, adherence to the policy contained in the specific plan would not be practicable.

As previously described, the Proposed Project would cross an unincorporated area of Riverside County for approximately 0.1 mile. The Proposed Project would be compatible with each of the applicable policies from the Riverside County General Plan. No development and conservation land uses infringe upon existing public utility corridors and the development of public facilities would be located in areas appropriately designated by the General Plan and area plan land use maps. The portion of the Proposed Project that would cross unincorporated Riverside County is within the TCAP. Policy TCAP 5.12 discourages utility lines within the river corridor and calls for lines to be placed underground where feasible and located in a manner to harmonize with the natural environment and amenity of the river. The portion of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line that would be located along the Santa Ana River corridor within the TCAP boundaries in unincorporated Riverside County would be configured overhead. Thus, the Proposed Project is potentially inconsistent with Policy TCAP 5.12. However, the existing subtransmission line that would be replaced by the proposed Mira Loma-Jefferson 66 kV Subtransmission Line is currently located overhead along the same alignment within the river corridor and, as such, no change from the existing condition would occur.

The Mira Loma-Jefferson 66 kV Subtransmission Line would cross the southwestern and northwestern portions of the City of Eastvale, as well as The Ranch at Eastvale Specific Plan area. Like the TCAP, policies C-29 and DE-16 and their associated actions discourage aboveground utility lines. Policy C-29 states that new and relocated utilities should be located underground when possible, and all remaining utilities will be located or screened in a manner that minimizes their visibility to the public. Policy DE-16 states that the city will seek to reduce the unsightly appearance of overhead and aboveground utilities by placing them underground as new development occurs. The portion of the Mira Loma-Jefferson 66 kV Subtransmission Line that is located within the City of Eastvale is configured overhead. Thus, the Proposed Project is potentially inconsistent with policies C-29 and DE-16. As previously described, however, the existing subtransmission line that would be replaced by the proposed Mira Loma-Jefferson 66 kV Subtransmission Line is currently located overhead along the same alignment within the river corridor and, as such, no change from the existing condition would occur.

The Mira Loma-Jefferson 66 kV Subtransmission Line also crosses the cities of Chino and Ontario in San Bernardino County, as well as the Rich-Haven and Subarea 29 specific plan areas. There are no policies applicable to electric infrastructure provided by the City of Chino General Plan, The Preserve Specific Plan, or for the City of Ontario General Plan. Applicable policies are provided in the Rich-Haven and Subarea 29 specific plans. The Rich-Haven Specific Plan provides applicable policies to electric infrastructure. These policies call for the incorporation of electrical transmission corridors and similar elements to form “edges” for residential neighborhoods and centers, and/or accommodate public greenways, trails, and corridors, and that existing major utilities would be incorporated into the overall fabric of the community. The Proposed Project would be compatible with these policies as the proposed Mira Loma-Jefferson 66 kV Subtransmission Line would replace the existing subtransmission line

with an approximately 500-foot-wide SCE easement that is designated by the Rich-Haven Specific Plan.

One approximately 3-acre temporary staging area would be located within the Edenglen Specific Plan area, which states that SCE will provide electricity to the Proposed Project site from existing nearby facilities and that proposed new facilities to serve the Proposed Project will be owned and operated by the City of Ontario and located underground. Although the staging area would not be located underground, it would be temporary in nature; therefore, the Proposed Project would be compatible with this policy.

Lastly, the Subarea 29 Specific Plan states that SCE will provide electricity to the site from existing facilities in the vicinity, and that proposed on-site facilities will be located underground. The Proposed Project would be compatible with these initiatives in that the proposed Mira Loma-Jefferson 66 kV Subtransmission Line would replace the existing subtransmission line within an approximately 500-foot-wide SCE easement that is designated in the Subarea 29 Specific Plan.

The Proposed Project is compatible with land use plans and policies adopted by local agencies responsible for land use planning throughout the Proposed Project area. Therefore, construction and operation of the Proposed Project would not conflict with an applicable environmental plan, policy, or regulation of an agency with jurisdiction over the Proposed Project. In addition, as discussed previously and pursuant to G.O. 131-D, the CPUC's jurisdiction over electric power line projects preempts local land use agencies from regulating the Proposed Project; therefore, no impacts to land use or planning would occur.

4.10.4.3 Would the project conflict with any applicable habitat conservation plan or natural community conservation plan? – No Impact

As described in Section 4.10.1.5 Habitat Conservation Plans/Natural Community Conservation Plans, portions of the Proposed Project would be located within the established Western Riverside County MSHCP boundary. SCE may elect to act as a participating special entity (PSE) in the MSHCP. A PSE is any regional public facility provider (e.g., a utility company, a public district, or agency) that operates and/or owns land within the MSHCP area and that applies for Take Authorization pursuant to Section 11.8 of the Implementing Agreement for the Western Riverside County MSHCP/NCCP. The Proposed Project is not expected to conflict with the MSHCP, provided that the APMs listed in Section 4.4.6 Applicant-Proposed Measures of Section 4.4 Biological Resources are implemented. The conditions of placing facilities within the plan boundaries are discussed in Section 4.4 Biological Resources. From a land use and planning perspective, construction and operation of the Proposed Project would not conflict with an HCP or NCCP, and no impact would occur.

4.10.5 Applicant-Proposed Measures

Because no impacts to land use or planning would occur as a result of the Proposed Project, no avoidance and minimization measures are proposed.

4.10.6 Alternative Substation Site

Substation Site Alternative B parcel is located within an area designated as General Industrial by the City of Corona's General Plan. This land use designation is described in the General Plan as accommodating a wide range of manufacturing, construction, transportation, wholesale trade, warehousing, vehicle storage, and related service activities. Mineral resource mining activities are also included in this category.

Substation Site Alternative B is zoned as Light Manufacturing (M1) within the City of Corona. The Light Manufacturing Zone provides for manufacturing uses that are generally passive, as this zone can be established adjacent to residential and commercial uses.

The proposed Circle City Substation site (i.e., Substation Site Alternative A) and Substation Site Alternative B are located in close proximity to one another. The alternative substation site would not physically divide an established community or conflict with an HCP or an NCCP. However, unlike the proposed Circle City Substation site, the alternative substation site is located within close proximity to a mobile home park. Therefore, construction at Substation Site Alternative B would result in greater impacts to land use than the proposed Circle City Substation site.

4.10.7 Alternative Source Line Routes

The only difference in land use designations that would be crossed by the proposed Source Line Route (i.e., Source Line Route Alternative 1), Source Line Route Alternative 2, and Source Line Route Alternative 4 is that Alternatives 2 and 4 would travel along Quarry Street (which is bordered by City Park and Low Density Residential), whereas the proposed Source Line Route would travel along 3rd Street (which is bounded by Low Density Residential and Light Industrial uses). Figure 4.10-1: Land Use Designation Map (Source Line Route) depicts the proposed Source Line Route and the alternative source line routes.

The alternative source line routes would cross through Light Industrial, Mixed Use 2: Industrial and Commercial, and General Industrial, and would travel adjacent to Low Density Residential land use designations. Thus, the alternative source line routes would avoid the ROW along Magnolia Avenue, which is where the proposed Source Line Route would be configured underground, and would therefore avoid areas designated as Medium Density Residential and General Commercial.

The proposed and alternative source line routes would be located in close proximity to one another, and the same regulatory policies would be relevant to both. As with the proposed Source Line Route, construction of the alternative routes would be short-term and would not physically divide an established community or conflict with any HCP or NCCP. The alternative source line routes also would not conflict with any relevant land use plans, policies, or regulations, as the CPUC's jurisdiction over electric power line projects and substations preempts local land use agencies from applying land use regulations to either the proposed or alternative routes. Accordingly, there would be no impacts to land use and planning.

4.10.8 Alternative Mira Loma-Jefferson 66 kV Subtransmission Line Routes

Both Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternative 2 and Alternative 3 would be collinear to the proposed Mira Loma-Jefferson 66 kV Subtransmission Line for the majority of the alignment. However, Alternative 3 would diverge from the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route where the alignment travels southwesterly through the City of Eastvale, down an existing street ROW along Archibald Avenue, then it would cross the Santa Ana River and rejoin the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route in the City of Norco. Alternative 2 would follow the same alignment as the proposed Mira Loma-Jefferson 66 kV Subtransmission Line, but would be configured underground along Hellman Avenue—north of Schleisman Road—to SCE's existing approximately 500-foot-wide easement.

Alternative 3 would cross through additional Medium and Low Density Residential areas and Commercial Retail and Community Center land use designations in the City of Eastvale, as well as through Residential Agricultural land in the City of Norco. Alternative 2 would cross the same land use designations as the proposed route. The proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route and the two alternatives would be located in close proximity to one another and would be subject to the same regulatory policies. Although Alternative 3 would be located in a more densely populated area than the portion of the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route along Hellman Avenue, it would not physically divide an established community as it would be located in an urban setting, construction would be short-term, and it would have a small overall footprint. Alternative 2 would also not physically divide an established community, as the only difference between the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route and Alternative 2 would be the approximately 0.4-mile-long underground section of the line that would be installed north of Schleisman Road.

The land use and zoning designations that would be crossed by the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route and Alternative 3 would differ slightly. These alternative routes also would not conflict with any relevant land use plans, policies, or regulations, as the CPUC's jurisdiction over electric power line projects and substations preempts local land use agencies from applying land use regulations to either the proposed or alternative routes. Alternative 2 would cross through the same land use and zoning designations as the proposed route. Further, the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route and the alternative routes would not conflict with any HCP or NCCP. Therefore, like the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route, Alternative 2, and Alternative 3 would have no impact on land use and planning.

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4.11 Mineral Resources

This section describes the mineral resources in the area of the Circle City Substation and Mira Loma-Jefferson Subtransmission Line Project (Proposed Project). The potential impacts and alternatives are also discussed. Construction, operation, and maintenance of the Proposed Project would not result in any impacts to mineral resources.

4.11.1 Environmental Setting

According to the United States Geological Survey (USGS), a mineral resource is defined as a concentration of naturally occurring solid, liquid, or gaseous materials in or on the Earth's crust in such form and quantity and of such a grade or quality that it has reasonable prospects for economic extraction, either currently or in the future. Mineral resources would include oil, natural gas, and metallic and non-metallic deposits. Based on a review of published sources and data from the USGS Mineral Resources Data System, no active mining operations would be crossed by the Proposed Project. There are six active mining sites located within 2 miles of Proposed Project components, as listed in Table 4.11-1: Active Mining Operations within 2 Miles.[1] The nearest mining site to the Proposed Project is Corona Plant, which is owned by All American Aggregates and contains sand and gravel resources.

Table 4.11-1: Active Mining Operations within 2 Miles

Site Name	Commodity	Proposed Project Component	Approximate Distance from the Proposed Project (miles)
Corona Plant	Sand and gravel	Source Line Route – Underground	0.16
Coachella Valley Aggregate	Sand and gravel	Circle City Substation	0.29
River Road Sand Job	Sand and gravel	Corona Substation	0.31
Corona Pit	Sand and gravel	Corona Substation	0.74
Corona Rock	Crushed stone	Circle City Substation	0.87
Corona Division Quarry and Mill	Stone	Source Line Route – Overhead	1.00

Source: USGS, 2003

The Proposed Project would not be located within nor would it span any oil or natural gas fields, though it is located approximately 2 miles northeast of the Prado-Corona oil field. According to the California Department of Conservation (DOC), there are three oil/gas wells located near the Proposed Project. One idle well is located approximately 0.3 mile southwest of the intersection of Hellman Avenue and River Road near the Mira Loma-Jefferson 66 Kilovolt (kV) Subtransmission Line. One plugged well and one active well are located within 0.1 mile of the

[1] Mining operations within 2 miles of the potential staging areas at the Ontario Service Center and Jefferson Substation are not included, because these are existing facilities and no ground disturbance is proposed at these sites.

intersection of 2nd Street and River Road near the Mira Loma-Jefferson 66 kV Subtransmission Line.

Mineral Resource Zones (MRZs), as classified by the State Mining and Geology Board (SMGB), were established to designate lands that contain mineral deposits. The majority of the Proposed Project is located in an area mapped as MRZ-3, and the available geologic information indicates that mineral deposits exist or are likely to exist in this area; however, the significance of the deposit is undetermined. A small portion of the Proposed Project near the proposed Circle City Substation and the proposed Source Line Route is located in an area mapped as MRZ-2, and the available geologic information indicates that there is a high likelihood of significant mineral deposits or that significant mineral deposits exist in this area.

4.11.2 Regulatory Setting

4.11.2.1 Federal

No federal plans or policies concerning mineral resources are relevant to the Proposed Project.

4.11.2.2 State

Surface Mining and Reclamation Act of 1975

MRZs are designated by the California Geological Survey where access to important mineral resources may be threatened, according to the provisions of the California Surface Mining and Reclamation Act of 1975 (SMARA). The SMARA requires that all jurisdictions incorporate mapped mineral resources approved by the SMGB into their general plans. The California DOC's Office of Mine Reclamation (OMR) and the SMGB are jointly charged with ensuring proper administration of the SMARA requirements. The SMGB promulgates regulations to clarify and interpret the SMARA provisions and also serves as a policy and appeals board. The OMR provides an ongoing technical assistance program for lead agencies and operators; maintains a database of mine locations and operational information statewide; and is responsible for compliance-related matters.

4.11.2.3 Local

The California Public Utilities Commission (CPUC) has sole and exclusive state jurisdiction over the siting and design of the Proposed Project. Pursuant to CPUC General Order (G.O.) 131-D, Section XIV.B, "Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the CPUC's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Consequently, public utilities are directed to consider local regulations and consult with local agencies, but the counties and cities' regulations are not applicable as the counties and cities do not have jurisdiction over the Proposed Project. Accordingly, the following discussion of local land use regulations is provided for informational purposes only.

The general plans discussed in the following subsections were found to have relevant policies to the Proposed Project and have been included for informational purposes and to provide further background on the management of mineral resources within the Proposed Project area. In

addition to the plans described in the following subsections, general plans from the cities of Eastvale, Norco, and Ontario were reviewed; however, no specific policies concerning mineral resources that are relevant to the Proposed Project were found in these general plans.

Riverside County General Plan

The Multipurpose Open Space Element of the Riverside County General Plan discusses mineral resources that are classified under the SMARA. Riverside County has deposits of clay, limestone, iron, sand, and aggregates. The Multipurpose Open Space Element provides policies to conserve for potential future use any areas identified as containing significant mineral deposits and oil and gas resources, and the policies restrict incompatible land uses within existing or potential surface mining areas or designated open space-mineral resource areas. Additional information regarding land use designations is provided in Section 4.10 Land Use and Planning.

San Bernardino County General Plan

The Conservation Element of the San Bernardino County General Plan discusses goals and policies to protect the mineral resources that are important to the county's economy. San Bernardino County acknowledges lands designated and classified by the SMGB and incorporates mineral classification and designation information from the SMGB and the California Division of Mines and Geology. San Bernardino County implements the SMGB's MRZ designations to identify mineral potential and economically viable reserves.

City of Chino General Plan

The Open Space and Conservation Element in the City of Chino General Plan incorporates the mapped mineral resource designations approved by the SMGB and discusses goals and policies to conserve and identify mineral resources within the city. The City of Chino is located in areas mapped as MRZ-1 and MRZ-3, where MRZ-1 consists of rocks suitable for commercial use (e.g., shale and siltstone) and fine-grained sedimentary deposits, and MRZ-3 contains sand and gravel deposits.

City of Corona General Plan

The City of Corona General Plan generally follows the SMGB mineral resource maps and is only required to address areas that have been designated MRZ-2. The active mines within the City of Corona are mostly located directly east of Interstate 15 and south of State Route 91. The portions of the City of Corona that are designated as MRZ-2 generally consist of clay and construction aggregates, such as crushed rock, sand, and gravel.

4.11.3 Significance Criteria

The significance criteria for assessing the impacts to mineral resources are derived from the California Environmental Quality Act (CEQA) Environmental Checklist. According to the CEQA Checklist, a project causes a potentially significant impact if it would:

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

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

4.11.4 Impact Analysis

4.11.4.1 Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Construction – No Impact

As previously discussed, the majority of the Proposed Project is located in an area mapped as MRZ-3 by the SMGB, which is an area where mineral deposits exist or are likely to exist, according to available geologic information. However, the level of significance of the deposit has not been determined by the SMGB. A small portion of the Proposed Project near the proposed Circle City Substation and the proposed Source Line Route is located in an area mapped as MRZ-2, which is an area where the available geologic information indicates that there is a high likelihood of significant mineral deposits or that significant mineral deposits exist, according to available geologic information. No mineral deposit extraction or removal is anticipated as part of the Proposed Project, and the MRZ designation of the Proposed Project area is not anticipated to change as a result of construction. In addition, the Proposed Project is primarily located within existing Southern California Edison (SCE) utility rights-of-way (ROWs) and all underground construction would occur within existing roadways where mineral resources are not expected to occur.

There are six active mining operations located within 2 miles of the Proposed Project. The nearest active mine—Corona Plant—is located approximately 0.16 mile from the proposed Source Line Route. The Proposed Project is not located in and does not span any active mines or any active oil or gas wells. Mines located in the vicinity of the Proposed Project would continue to be operational during construction and no construction activities would occur within these mines. As a result, there would be no impact to known mineral resources of value to the region and the residents of the state.

Operation – No Impact

The proposed Circle City Substation would be unstaffed, and electrical equipment within the substation would be remotely monitored and controlled by an automated system from SCE's existing Mira Loma Substation. SCE personnel would typically visit the proposed Circle City Substation for electrical switching and routine maintenance purposes. Routine maintenance would include equipment testing, monitoring, and repair. Normal operation of the Mira Loma-Jefferson 66 kV Subtransmission Line and the Source Line Route would be controlled remotely through SCE control systems. SCE inspects its energized subtransmission overhead facilities at least annually via ground and/or aerial observation. Maintenance would occur as needed and would include activities such as repairing conductors, replacing insulators, replacing poles, and access road maintenance. As Proposed Project facilities are not located within and do not span any active mines or any active oil or gas wells, operation and maintenance activities would not result in any impacts to active mining operations or other mineral resources of value to the region and state, and no impact would occur.

4.11.4.2 Would the project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

Construction – No Impact

The general plans prepared for Riverside County, San Bernardino County, the City of Chino, and the City of Corona do not designate areas outside those already designated by the SMGB as having important mineral resources. The Proposed Project components located in San Bernardino County and the City of Chino are located within an area classified as MRZ-3. The Proposed Project components located in Riverside County and the City of Corona are located within areas classified as MRZ-2. No mineral deposit extraction or removal is anticipated as part of the Proposed Project. The MRZ designation of the Proposed Project area is not anticipated to change as a result of construction of the Proposed Project. The Proposed Project is not located in and does not span any active mines, and mines located within the vicinity of the Proposed Project would continue to be operational during construction and no construction activities would occur within Corona Plant. In addition, the Proposed Project is primarily located within existing SCE utility ROWs or existing roadways where mineral resources are not expected to occur. As a result, there would be no impact to a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan due to construction and operation of the Proposed Project.

Operation – No Impact

As previously discussed, all Proposed Project facilities would be unstaffed and remotely operated, with the exception of periodic maintenance and inspection activities, which would occur at least annually or on an as-needed basis. As Proposed Project facilities are not located within and do not span any active mines or active oil or gas wells, operation and maintenance activities would not result in any impacts to active mining operations or locally important mineral resource sites. As a result, no impact would occur.

4.11.5 Applicant-Proposed Measures

Because no impacts to mineral resources would occur as a result of the Proposed Project, no avoidance or minimization measures are proposed.

4.11.6 Alternative Substation Site

Substation Site Alternative B is located adjacent to the southeast corner of the proposed Circle City Substation site (i.e., Substation Site Alternative A) and, as a result, has similar physical and geographic characteristics. Substation Site Alternative B is also located in an area mapped as MRZ-2, which is an area where the available geologic information indicates that there is a high likelihood of significant mineral deposits or that significant mineral deposits exist; however, the level of significance of the deposit is undetermined. The mineral resources located in the vicinity of the alternative substation site are the same as those specified for the proposed Circle City Substation site. No mineral deposit extraction or removal is anticipated as part of the Proposed Project, and the MRZ designation of the Proposed Project area is not anticipated to change as a result of construction of the Proposed Project. As a result, similar to the Proposed Project, there would be no impact to mineral resources from the alternative substation site.

4.11.7 Alternative Source Line Routes

The mineral resources in the vicinity of Source Line Route Alternatives 2, 3, and 4 are the same as those in the vicinity of the proposed Source Line Route. The alternative source line routes would not be located within and would not span any active mines or any active oil or gas wells. Mines located within the vicinity of the alternative source line routes would continue to be operational during construction, and no construction activities would occur within these mines. As a result, there would be no impact to known regional, local, or state mineral resources due to the alternative source line routes or the proposed Source Line Route.

4.11.8 Alternative Mira Loma-Jefferson 66 kV Subtransmission Line Routes

The mineral resources in the vicinity of Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternatives 2 and 3 are the same as those for the Proposed Project's Mira Loma-Jefferson 66 kV Subtransmission Line. Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternatives 2 and 3 would not be located within and would not span any active mines or any oil and gas wells. Mines located within the vicinity of Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternatives 2 and 3 would continue to be operational throughout construction. Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternatives 2 and 3 would be located in an area mapped as MRZ-3, where the available geologic information indicates that mineral deposits exist or are likely to exist, though the level of significance of the deposit is undetermined. No mineral deposit extraction or removal would occur, and the MRZ designation is not anticipated to change as a result of the Proposed Project in these areas. Therefore, there would be no impact to mineral resources due to the proposed Mira Loma-Jefferson 66 kV Subtransmission Line Route or Mira Loma-Jefferson 66 kV Subtransmission Line Route Alternatives 2 and 3.

4.11.9 References

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