Appendices - Volume 2

Appendix E

Fuel Consumption Calculations

9th and Vineyard Project

Last Updated: 8/5/2023

Populate one of the following tables (Leave the other blank):

Annual VMT	OR	Daily Vehicle Trips
Annual VMT: 7,737,134		Daily Vehicle Trips:
		Average Trip Distance:

Fleet Class	Fleet Mix
Light Duty Auto (LDA)	0.796000
Light Duty Truck 1 (LDT1)	0.000000
Light Duty Truck 2 (LDT2)	0.000000
Medium Duty Vehicle (MDV)	0.000000
Light Heavy Duty 1 (LHD1)	0.000000
Light Heavy Duty 2 (LHD2)	0.035000
Medium Heavy Duty (MHD)	0.046000
Heavy Heavy Duty (HHD)	0.123000
Other Bus (OBUS)	0.000000
Urban Bus (UBUS)	0.000000
Motorcycle (MCY)	0.000000
School Bus (SBUS)	0.000000
Motorhome (MH)	0.000000

Fuel Economy (MPG) [1]	
Passenger Vehicles	24.1
Light-Med Duty Trucks	17.6
Heavy Trucks/Other	7.5
Motorcycles	44

Fleet Mix

Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	*79.60%*	*Gasoline*	6,158,759	0.00	255,550
Light-Medium Duty Trucks	*0.00%*	*Gasoline*	0	0.00	0
Heavy Trucks/Other	*20.40%*	*Diesel*	1,578,375	0.00	210,450
Motorcycle	*0.00%*	*Gasoline*	0	0.00	0

Total Gasoline Consumption (gallons)	**255,550**
Total Diesel Consumption (gallons)	**210,450**

Sources:

[1] United States Department of Transportation, Bureau of Transportation Statistics. 2021. National Transportation Statistics. Available at: https://www.bts.gov/topics/national-transportation-statistics.

Appendix F-1

Geotechnical Report

GEOTECHNICAL INVESTIGATION
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

East Side of Baker Avenue, South of 9th Street
Rancho Cucamonga, California
for
Panattoni Development Company, Inc.

SoCalGeo

SOUTHERN
CALIFORNIA
GEOTECHNICAL
A California Corporation

April 5, 2019

Panattoni Development Company, Inc.
20411 SW Birch Street, Suite 200
Newport Beach, California 92660

Attention: Mr. Michael Sizemore
Development Manager

Project No.: **19G121-1**

Subject: **Geotechnical Investigation**
Proposed Commercial/Industrial Development
East Side of Baker Avenue, South of 9th Street
Rancho Cucamonga, California

Gentlemen:

In accordance with your request, we have conducted a geotechnical investigation at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Daniel W. Nielsen, RCE 77195
Senior Engineer

Robert G. Trazo, M.Sc., GE 2655
Principal Engineer

Distribution: (1) Addressee

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1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

Geotechnical Design Considerations

- Artificial fill soils were encountered most of the boring and trench locations, extending from the ground surface to depths of 1½ to 8± feet.
- The fill soils and near-surface alluvial soils possess varying strengths and densities. In addition, some of the existing fill soils possess a potential for hydrocollapse. The existing fill soils are considered to represent undocumented fill. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structures.
- Remedial grading will be necessary to remove the existing fill soils and a portion of the near-surface alluvial soils and replace them as compacted structural fill.

Site Preparation Recommendations

- Initial site stripping should include removal of any surficial vegetation from the site. Stripping should include any weeds, grasses, and any organic top soils.
- Demolition of existing asphalt and concrete pavements will be necessary in the northern portion of the site. Debris resultant from demolition should be disposed of off-site. Alternatively, asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills. It may also be crushed and made into crushed miscellaneous base (CMB), if desired.
- We recommend that remedial grading be performed within the proposed building areas in order to remove all of the artificial fill soils and a portion of the near-surface alluvium. The soils present within the proposed building areas should be overexcavated to a depth of 5 feet below existing grade and to a depth of at least 3 feet below proposed building pad subgrade elevation. The proposed foundation influence zones should also be overexcavated to a depth of at least 2 feet below proposed foundation bearing grade.
- After overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting soils should be scarified and moisture conditioned to 0 to 4 percent above the optimum moisture content, to a depth of at least 12 inches. The overexcavation subgrade soils should then be recompacted under the observation of the geotechnical engineer. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Foundation Design Recommendations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 lbs/ft^2 maximum allowable soil bearing pressure.
- Reinforcement consisting of at least two (2) No. 5 rebars (1 top and 1 bottom) in strip footings. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab Design Recommendations

- Conventional Slabs-on-Grade: minimum 6-inch thickness.
- Modulus of Subgrade Reaction: k = 150 psi/in.
- Reinforcement is not expected to be necessary for geotechnical considerations.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer.

Pavement Design Recommendations

ASPHALT PAVEMENTS (R=50)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	3	4	5	5	7
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R=50)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 18P368R4, dated February 26, 2019. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slabs, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located on the east side of Baker Avenue, 300± feet south of 9th Street in Rancho Cucamonga, California. The site is bounded to the north by single-family residences, commercial/industrial buildings, and 9th Street, to the west by Baker Avenue, to the south by a railroad easement, and to the east by Vineyard Avenue and a concrete lined channel. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 in Appendix A of this report.

The overall site consists of multiple irregular-shaped parcels, which total 47.03± acres in size. The south-central parcel is developed with a commercial/industrial building, approximately 71,000± ft² in size. The building appears to be a single-story structure of concrete tilt-up construction, supported on conventional shallow foundations with a concrete slab-on-grade floor. The building is surrounded by asphaltic concrete (AC) pavements, which are generally in poor condition with moderate to severe cracking throughout, and areas of crushed aggregate base (CAB) in the southern area of the parcel.

The southeastern parcel is currently occupied by the Scheu Steel Supply Company and is developed with two (2) buildings. One of the buildings is a two-story industrial building, 40,000± ft² in size, located in the east-central area of the parcel. This building is of metal-frame construction and is assumed to be supported on conventional shallow foundations with a concrete slab-on-grade floor. The second building, 2,700± ft² in size, is located in the southeastern area of the parcel and is a single-story structure of wood-frame and stucco construction. The ground surface cover surrounding the buildings consists CAB, AC pavements, and areas of exposed soil. The ground surface cover in the western portion of the parcel consists of exposed soil with moderate native grass and weed growth. An existing cell tower is located in the south-central area of the parcel. Based on our review of historic aerial photographs, the northeastern area of this parcel was previously developed with two (2) single-family residences. However, these photographs indicate that the residential structures were removed by February of 2016.

The northeastern parcel is currently developed with a small commercial/industrial building, 4,000± ft² in size. The building is located in the northern area of the parcel and is surrounded by AC pavements and exposed soils. Numerous stockpiles of green waste including plant foliage, tree trunks, branches, and wood chips are located in the central area of the parcel.

The north-central area of the site is currently developed with a 6,100± ft² two-story building of wood-frame and stucco construction, assumed to be supported on conventional shallow foundations with a concrete slab-on-grade floor. The building is surrounded by concrete pavements and exposed soil. The pavements are generally in fair condition with moderate cracking throughout. Four (4) radio towers are present to the south of the existing building. The ground surface cover surrounding the radio towers and in the remainder of this area consists of exposed soil with moderate to dense native grass and weed growth. Based on our review of

historic aerial photographs, the northwestern region of this area of the site was previously developed with three (3) single-family residences. Based on the historical photographs, all three of the residential structures were removed by October of 2016. Two (2) concrete slabs measuring 1,700± and 1,800± ft² remain in this area.

The western area of the site is vacant and undeveloped. The ground surface cover in this area consists of exposed soil and moderate to dense native grass and weed growth. An AC road transects this portion of the site, which generally trends east-to-west. A historical building is present in the west-central area, which is to remain and is not a part of the site.

Detailed topographic information was not available at the time of this report. However, based on topographic information obtained from Google Earth, the site topography ranges from 1,165± feet msl in the northwestern area of the site to 1,130± feet mean sea level (msl) in the southeastern area. The site topography slopes gently downward toward the south-southeast at a gradient of approximately 1± percent.

3.2 Proposed Development

Based on a conceptual site plan (Scheme 5A) provided to our office by the client, the site will be developed with three (3) new commercial/industrial buildings. The buildings will be identified as Buildings 1 through 3. Building 1 will be located in the eastern area of the site and will be 639,310± ft² in size. Building 2 will be located in the central area of the site and will be 128,160± ft² in size. Building 3 will be located in the western area of the site and will be 279,390± ft² in size. The buildings will be constructed with dock-high doors located along a portion of at least one wall of each building. The buildings will be surrounded by asphaltic concrete pavements in the parking and drive lanes, Portland cement concrete pavements in the loading dock areas, with concrete flatwork and landscape planters throughout.

Detailed structural information has not been provided. It is assumed that the new buildings will be single-story structures of tilt-up concrete construction, typically supported on conventional shallow foundation systems with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 3 to 5 kips per linear foot, respectively.

No significant amounts of below grade construction such as basements or crawl spaces are expected to be included in the proposed development. Based on the assumed topography, cuts and fills of 4 to 5± feet are expected to be necessary to achieve the proposed site grades.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of eleven (11) borings advanced to depths of 15 to 25± feet below existing site grades. In addition to the eleven borings, four (4) trenches were excavated at the site to depths of 9 to 10± feet below existing site grades. These trenches were excavated using a backhoe with a 36-inch-wide bucket. All of the borings and trenches were logged during the drilling and excavation by members of our staff.

The borings were advanced with hollow-stem augers, by a truck-mounted drilling rig. Representative bulk and undisturbed soil samples were taken during drilling. Relatively undisturbed samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. Samples were also taken using a 1.4± inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

The approximate locations of the borings (identified as Boring Nos. B-1 through B-11) and trenches (T-1 through T-4) are indicated on the Boring and Trench Location Plan, included as Plate 2 in Appendix A of this report. The Boring and Trench Logs, which illustrate the conditions encountered at the boring and trench locations, as well as the results of some of the laboratory testing, are included in Appendix B.

4.2 Geotechnical Conditions

Artificial Fill

Artificial fill soils were encountered at the ground surface at all of the boring and trench locations, except Boring No. B-5 and Trench Nos. T-2 and T-4, extending to depths of 1 to 8± feet below the existing site grades. The artificial fill soils generally consist of loose to very dense silty fine to medium sands with occasional cobbles and varying amounts of coarse sand and fine to coarse gravel. The fill soils possess a disturbed appearance and some samples contain minor debris, such as asphaltic concrete fragments and string, resulting in their classification as artificial fill.

Alluvium

Native alluvium was encountered at the ground surface at Boring No. B-5, beneath the fill soils at Trench Nos. T-1 and T-3, and beneath the fill soils at the remaining boring and trench locations, extending to at least the maximum depth explored of 25± below the existing site grades. The

near-surface alluvial soils encountered at the boring locations generally consist of medium dense to very dense well-graded sands with varying fine to coarse gravel content and occasional to extensive cobbles. Occasional boulders were encountered in the exploratory trenches at depths greater than 6± feet below the ground surface. A loose fine sand stratum was encountered between depths of 3½ and 5 feet at Boring No. B-11.

Groundwater

Free water was not encountered during the drilling of any of the borings. Based on the lack of any water within the borings, and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 25± feet at the time of the subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the groundwater depths in this area is the California Department of Water Resources website, http://www.water.ca.gov/waterdatalibrary/. The nearest monitoring well in this database is located approximately 2,300 feet southwest from the site. Water level readings within this monitoring well indicate high groundwater levels of 326± feet (January 1989) below the ground surface.

5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. Field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring and Trench Logs and are periodically referenced throughout this report.

Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-11 in Appendix C of this report.

Maximum Dry Density and Optimum Moisture Content

A representative bulk sample was tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Sheets C-12 and C-13 in Appendix C of this report. These tests are generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Soluble Sulfates

Representative samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes

into contact with these soils. The results of the soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
B-1 @ 0 to 5 feet	< 0.001	Not Applicable (S0)
B-5 @ 0 to 5 feet	0.001	Not Applicable (S0)

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing and geotechnical analysis, the proposed development is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations.

The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record. The recommendations are provided with the assumption that an adequate program of client consultation, construction monitoring, and testing will be performed during the final design and construction phases to verify compliance with these recommendations. Maintaining Southern California Geotechnical, Inc., (SCG) as the geotechnical consultant from the beginning to the end of the project will provide continuity of services. The geotechnical engineering firm providing testing and observation services shall assume the responsibility of Geotechnical Engineer of Record.

The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low.

Seismic Design Parameters

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2016 edition of the California Building

Code (CBC). The CBC provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

The 2016 CBC Seismic Design Parameters have been generated using U.S. Seismic Design Maps, a web-based software application developed by the United States Geological Survey. This software application, available at the USGS web site, calculates seismic design parameters in accordance with the 2016 CBC, utilizing a database of deterministic site accelerations at 0.01 degree intervals. The table below is a compilation of the data provided by the USGS application. A copy of the output generated from this program is included in Appendix E of this report. A copy of the Design Response Spectrum, as generated by the USGS application is also included in Appendix E. Based on this output, the following parameters may be utilized for the subject site:

2016 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.500
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.600
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.500
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	0.900
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.000
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.600

Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

The California Geological Survey (CGS) has not yet conducted detailed seismic hazards mapping in the area of the subject site. The general liquefaction susceptibility of the site was determined by research of the San Bernardino County Land Use Plan, General Plan, Geologic Hazard Overlays. Map FH28 indicates that the subject site is not located within an area of liquefaction susceptibility. Based on the mapping performed by the county of San Bernardino and the subsurface conditions

encountered at the boring locations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The near surface soils encountered at the boring and trench locations consist of artificial fill soils and native alluvium. The artificial fill soils, where encountered, extend to depths of 1½ to 8± feet below the existing site grades. The fill soils possess variable strengths and densities and based on the results of consolidation/collapse testing, some of the fill materials possess a significant potential for hydrocollapse when inundated with water. Based on these considerations, and a lack of documentation of the placement and compaction of these soils, the existing fill materials are considered to consist of undocumented fill, unsuitable for the support of the proposed structure. The near surface alluvium also possesses variable strengths, densities, and composition. Therefore, remedial grading is considered warranted within the proposed building areas in order to remove all of the undocumented fill soils in their entirety as well as the upper portion of the near-surface native alluvial soils and replace them as compacted fill soils.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvial soils and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structures. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

The near-surface soils encountered at the boring locations consist of silty sands underlain by well graded sands. These materials have been visually classified as very low to non-expansive. Therefore, no design considerations related to expansive soils are considered warranted for this site.

Soluble Sulfates

The results of the soluble sulfate testing indicate that the selected samples of the on-site soils to correspond to Class S0 with respect to the American Concrete Institute (ACI) Publication 318-14 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building areas.

Shrinkage/Subsidence

Based on the results of the laboratory testing, removal and recompaction of the loose to dense near-surface soils, extending to depths of 3 to 6± feet, is estimated to result in an average shrinkage of 5 to 12 percent. It should be noted that this shrinkage estimate is based on the results of dry density testing performed on small-diameter samples of the existing soils taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.1± feet. This estimate may be used for grading in areas that are underlain by native alluvial soils.

These estimates are based on previous experience in the area of the subject site and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

Grading and Foundation Plan Review

Grading and foundation plans were not available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary grading and foundation plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the boring locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Site Stripping and Demolition

Initial site stripping should include removal of any surficial vegetation from the site. Stripping should include any grass and weed growth as well as any organic top soils. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

The proposed development will require demolition of the existing buildings and pavements. Additionally, any existing improvements that will not remain in place for use with the new development should be removed in their entirety. This should include all foundations, floor slabs, utilities, and any other subsurface improvements associated with the existing structures. The existing pavements are not expected to be reused with the new development. Debris resultant

from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills. It may also be crushed and made into crushed miscellaneous base (CMB), if desired.

Treatment of Existing Soils: Building Pads

Remedial grading should be performed within the proposed building pad areas in order to remove any soils disturbed during demolition, the existing undocumented fill soils, and the upper portion of the near-surface native alluvium. Based on conditions encountered at the boring and trench locations, we recommend that the existing soils within the proposed building areas be overexcavated to a depth of at least 5 feet below existing grade and to a depth of at least 3 feet below proposed building pad subgrade elevations, whichever is greater. **The depth of the overexcavation should also extend to a depth sufficient to remove all undocumented fill soils**. The undocumented fills extend to depths of 1½ to 8± feet and most of the boring and trench locations. Additional overexcavation should be performed within the influence zones of the new foundations, to provide for a new layer of compacted structural fill extending to a depth of at least 2 feet below proposed bearing grades.

The overexcavation areas should extend at least 5 feet beyond the building and foundation perimeters, and to an extent equal to the depth of fill below the new foundations. If the proposed structure incorporates any exterior columns (such as for a canopy or overhang) the area of overexcavation should also encompass these areas.

Following completion of the overexcavation, the subgrade soils within the overexcavation areas should be evaluated by the geotechnical engineer to verify their suitability to serve as the structural fill subgrade, as well as to support the foundation loads of the new structures. This evaluation should include proofrolling and probing to identify any soft, loose or otherwise unstable soils that must be removed. **Some localized areas of deeper excavation may be required if additional fill materials or loose, porous, or low density native soils are encountered at the base of the overexcavation**.

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and moisture treated to 0 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The previously excavated soils may then be replaced as compacted structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of proposed retaining and non-retaining site walls should be overexcavated to a depth of at least 2 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pads. Any undocumented fill soils within any of these foundation areas should be removed in their entirety. The overexcavation areas should extend at least 5 feet beyond the foundation perimeters, and to an extent equal to the depth of fill below the new foundations. Any erection pads for tilt-up concrete walls are considered to be part of the foundation system. Therefore, these overexcavation recommendations are applicable to erection pads. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning, and

recompacting the upper 12 inches of exposed subgrade soils, as discussed for the building areas. The previously excavated soils may then be replaced as compacted structural fill.

If the recommended remedial grading can not be completed for screen walls located along property lines, such walls should be designed for a reduced allowable bearing pressure. The allowable bearing pressure will be determined based on the actual extent of remedial grading that can be accomplished.

Treatment of Existing Soils: Flatwork, Parking and Drive Areas

Based on economic considerations, overexcavation of the existing near-surface existing soils in the new flatwork, parking and drive areas is not considered warranted, with the exception of areas where lower strength or unstable soils are identified by the geotechnical engineer during grading. Subgrade preparation in the new flatwork, parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations.

The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. Any such materials should be removed to a level of firm and unyielding soil. The exposed subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 0 to 4 percent above the optimum moisture content, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength surficial soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed flatwork, parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed flatwork, parking and drive areas. The grading recommendations presented above do not completely mitigate the extent of existing fill soils that may be present in the flatwork, parking and drive areas. As such, some settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the flatwork, parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2016 CBC and the grading code of the city of Rancho Cucamonga.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not

be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Selective Grading and Oversized Material Placement

The near-surface soils possess varying cobble content in the upper 6± feet below the existing site grades. At greater depths, the near surface soils possess extensive cobble content and occasional boulders. It is expected that conventional scrapers will be adequate to move the cobble-containing soils. Depending upon the depths of cuts and fills necessary to achieve the proposed site grades, site grading may require excavation of cobble-containing soils and it may be desirable to selectively grade within the proposed building pad area. The presence of particles greater than 3 inches in diameter within the upper 1 to 3 feet of the building pad subgrade will impact the utility and foundation excavations. Depending on the depths of fills required within the proposed parking areas, it may be feasible to sort the on-site soils, placing the materials greater than 3 inches in diameter within the lower depths of the fills, and limiting the upper 1 to 3 feet of soils to materials less than 3 inches in size. Oversized materials could also be placed within the lower depths of the recommended overexcavations. In order to achieve this grading, it would likely be necessary to use rock buckets and/or rock sieves to separate the oversized materials from the remaining soil. Although such selective grading will facilitate further construction activities, it is not considered mandatory and a suitable subgrade could be achieved without such extensive sorting. However, in any case it is recommended that all materials greater than 6 inches in size be excluded from the upper 1 foot of the surface of any compacted fills. The placement of any oversized materials should be performed in accordance with the grading guide specifications included in Appendix D of this report.

Imported Structural Fill

All imported structural fill should consist of very low expansive (EI < 20), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. It is recommended that materials in excess of 3 inches in size not be used for utility trench backfill. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Rancho Cucamonga. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

6.4 Construction Considerations

Excavation Considerations

The near-surface soils generally consist of silty sands underlain by well graded sands and gravelly sands. These materials will likely be subject to minor to moderate caving within shallow excavations. Where caving does occur, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Based on the current site plan, the southern and western walls of the proposed building will be located 15± feet away for the south and west property lines, respectively. Depending upon the proposed grading in this area, it may be challenging to complete the lateral extent of overexcavation if deep cuts are required or if the proposed building location is relocated closer to either of these property lines. Because the soils are granular and prone to caving, temporary slopes should not exceed an inclination of 2h:1v, as discussed above. Depending upon the subsurface conditions encountered during remedial grading procedures, slot cutting may be necessary. The initial phase of excavation is expected to consist of a 2h:1v temporary slope. Small slot cuts may be made at the base of this inclined slope in order to remove all existing low strength, potentially collapsible soils from within the foundation influence zones and to provide the new layer of compacted structural fill beneath the proposed building foundations. The remainder of the proposed building pad area may be overexcavated using conventional grading techniques.

Groundwater

The static groundwater table is considered to have existed at a depth in excess of 25± feet at the time of the subsurface exploration. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pads will be underlain by structural fill soils used to replace the existing fill soils and a portion of the near-surface alluvial soils. These new structural fill soils are expected to extend to depths of at least 2 feet below proposed foundation bearing grade, underlain by 1± foot of additional soil that has been scarified, moisture conditioned, and recompacted. Based on this subsurface profile, the proposed structures may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft^2.

- Minimum wall/column footing width: 14 inches/24 inches.

- Minimum longitudinal steel reinforcement within strip footings: Two (2) No. 5 rebars (1 top and 1 bottom).

- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.

- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by 1/3 when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill, compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill, with the resulting excavations backfilled with compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

The foundation subgrade soils should also be properly moisture conditioned to 0 to 4 percent of the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. **Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process**.

Estimated Foundation Settlements

Post-construction total and differential settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 30-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 300 lbs/ft^3
- Friction Coefficient: 0.30

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill soils. The maximum allowable passive pressure is 3,000 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slabs should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Based on the anticipated grading which will occur at this site, the floors of the proposed structures may be constructed as conventional slabs-on-grade supported on newly placed structural fill (or densified existing soils), extending to a depth of at least 3 feet below finished pad grades. Based on geotechnical considerations, the floor slabs may be designed as follows:

- Minimum slab thickness: 6 inches.

- Modulus of Subgrade Reaction: k = 150 psi/in.

- Minimum slab reinforcement: Reinforcement is not considered necessary from a geotechnical standpoint. The actual floor slab reinforcement should be determined by the structural engineer, based on the imposed slab loading.

- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area of the proposed slab where such moisture sensitive floor coverings are anticipated. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the

floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slabs should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Although not indicated on the site plan, some small (less than 6 feet in height) retaining walls may be required to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. The following parameters assume that only the on-site soils will be utilized for retaining wall backfill. The near-surface soils generally consist of silty sands. Based on their composition, the on-site soils have been assigned a friction angle of 30 degrees.

If desired, SCG could provide design parameters for an alternative select backfill material behind the retaining walls. The use of select backfill material could result in lower lateral earth pressures. In order to use the design parameters for the imported select fill, this material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal. If select backfill material behind the retaining wall is desired, SCG should be contacted for supplementary recommendations.

RETAINING WALL DESIGN PARAMETERS

Design Parameter		**Soil Type**
		On-site Silty Sands
Internal Friction Angle (ϕ)		30°
Unit Weight		130 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	43 lbs/ft^3
	Active Condition (2h:1v backfill)	70 lbs/ft^3
	At-Rest Condition (level backfill)	65 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.30 and an equivalent passive pressure of 300 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In accordance with the 2016 CBC, any retaining walls more than 6 feet in height must be designed for seismic lateral earth pressures. If walls 6 feet or more are required for this site, the geotechnical engineer should be contacted for supplementary seismic lateral earth pressure recommendations.

Retaining Wall Foundation Design

The retaining wall foundations should be supported within newly placed compacted structural fill, extending to a depth of at least 2 feet below proposed foundation bearing grade. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Backfill Material

On-site soils may be used to backfill the retaining walls. However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls be used. If the drainage composite material is not covered by an impermeable surface, such as a structure or pavement, a 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils. The drainage composite should be separated from the backfill soils by a suitable geotextile, approved by the geotechnical engineer.

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the ***Site Grading Recommendations*** section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The near-surface soils generally consist of silty sands. These soils are generally considered to possess excellent pavement support characteristics, with R-values in the range of 50 to 60. The subsequent pavement design is therefore based upon an assumed R-value of 50. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading to verify that the pavement design recommendations presented herein are valid.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20-year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

ASPHALT PAVEMENTS (R=50)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	3	4	5	5	7
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R=50)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

7.0 GENERAL COMMENTS

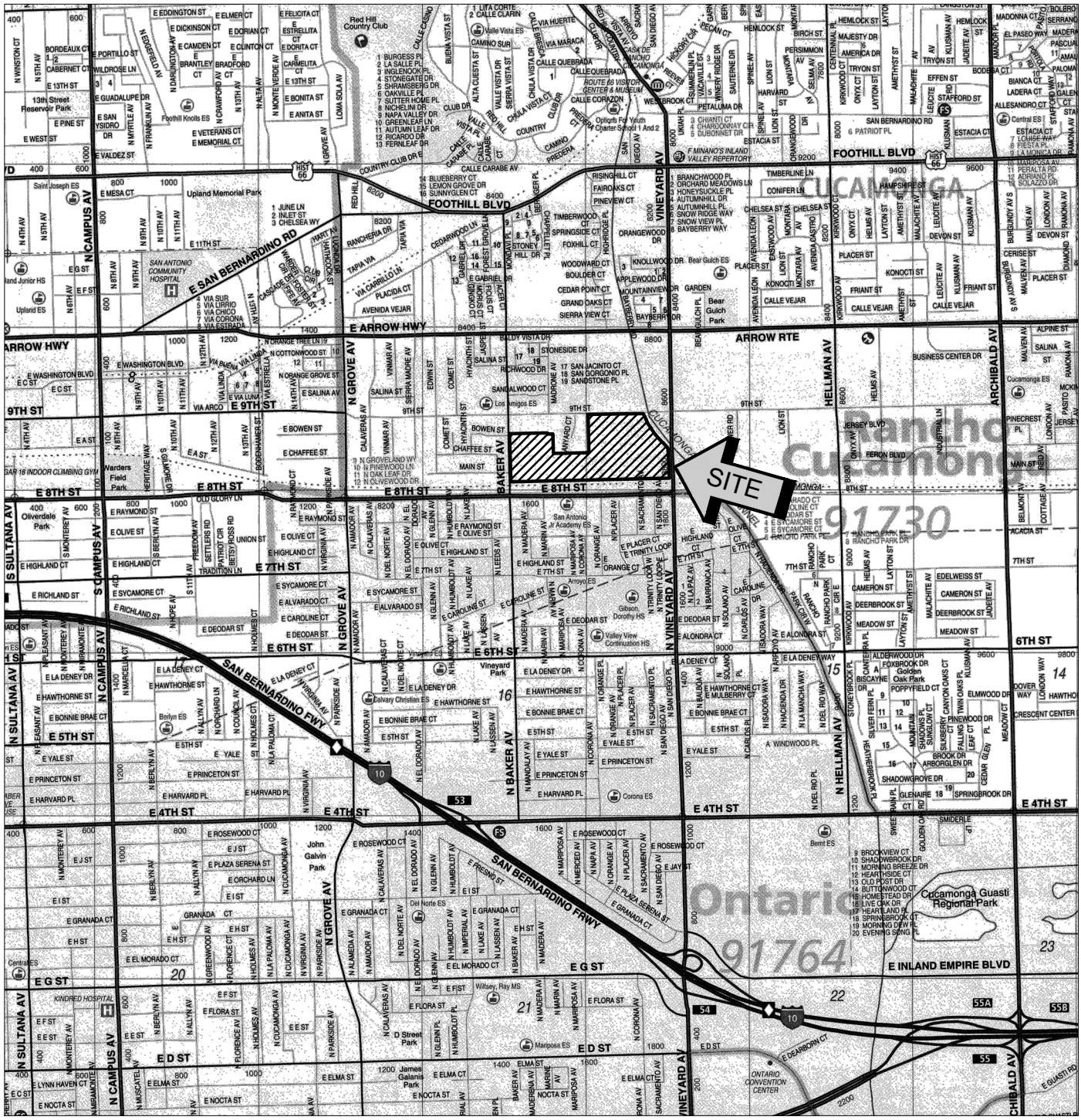
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

APPENDIX A



SOURCE: SAN BENARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

RANCHO CUCAMONGA, CALIFORNIA

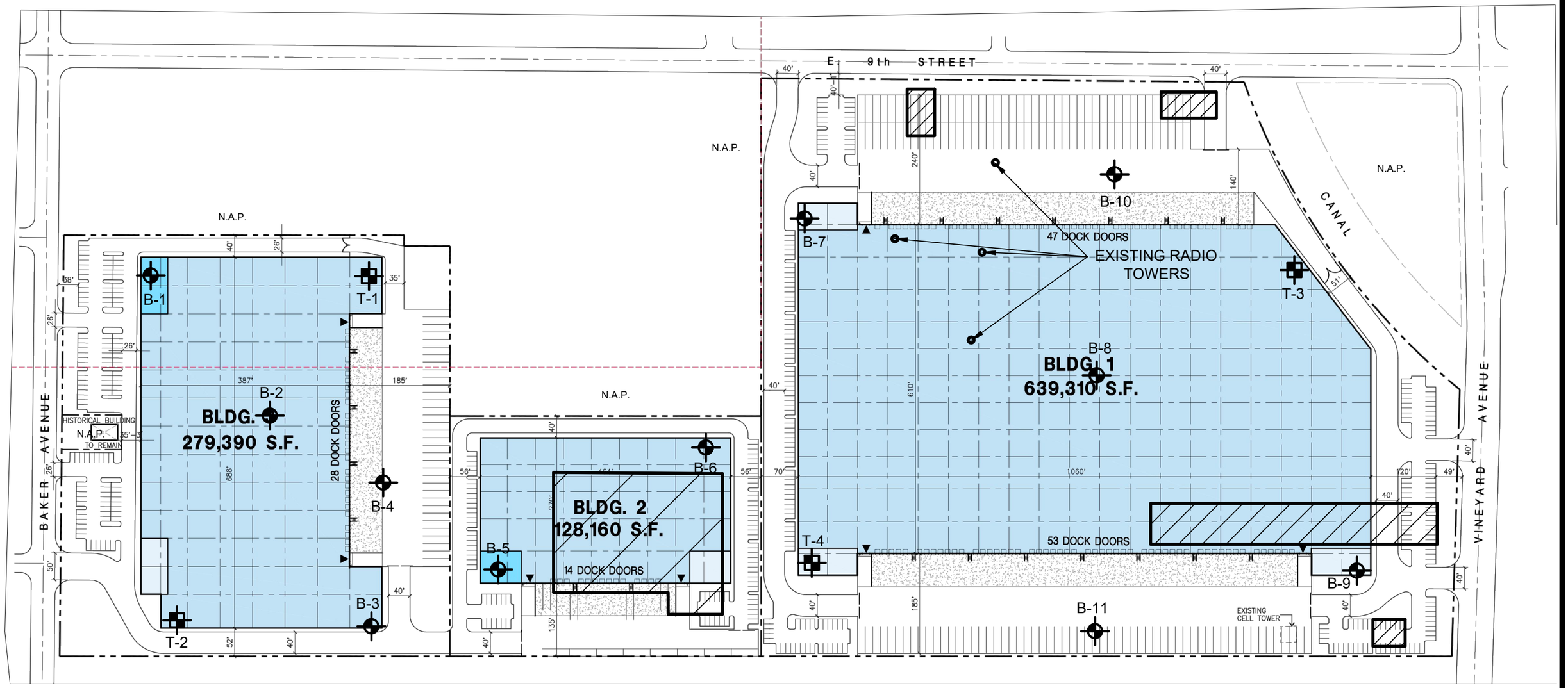
SCALE: 1" = 2400'

DRAWN: OS
CHKD: RGT

SCG PROJECT
19G121-1

PLATE 1

SOUTHERN CALIFORNIA GEOTECHNICAL



GEOTECHNICAL LEGEND

- APPROXIMATE BORING LOCATION
- APPROXIMATE TRENCH LOCATION
- EXISTING BUILDINGS TO BE DEMOLISHED

NORTH

NOTE: CONCEPTUAL SITE PLAN PREPARED BY HPA ARCHITECTURE.

BORING AND TRENCH LOCATION PLAN

PROPOSED COMMERCIAL INDUSTRIAL DEVELOPMENT

RANCHO CUCAMONGA, CALIFORNIA

SCALE: 1" = 180

DRAWN: AL
CHKD: RGT

SCG PROJECT
19G121-1

PLATE 2

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 15 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		20			FILL: Dark Brown Silty fine to medium Sand, trace coarse Sand, little fine to coarse Gravel, occasional Cobbles, medium dense-damp	113	8					
		49			ALLUVIUM: Brown to Light Brown fine to coarse Sand, some Cobbles, dense to very dense-dry to damp	116	8					
5		28				117	4					
		50/4"				122	2					
		50/2"					3					Distrubed Sample
10												
		97/8"					2					
15												
		50/5"					2					
20												
		63					4					
25					Boring Terminated at 25'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	42			FILL: Gray Brown Gravel fine to coarse Sand, little Silt, occasional Cobbles, dense-damp		4					
	X	50/3"					4					
5					ALLUVIUM: Light Brown to Brown Gray fine to coarse Sand, extensive Cobbles, trace Silt, very dense-dry to damp							
	X	54					3					
	X	69					2					
10												
	X	50/3"					2					
15					Boring Terminated at 15'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 10 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		13			FILL: Dark Brown Silty fine to medium Sand, trace coarse Sand, little fine to coarse Gravel, occasional Cobbles, loose, moist	80	9					
		9			FILL: Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, loose, moist	102	9					
5		23				109	12					
		50/5"			ALLUVIUM: Brown fine to coarse Sand, extensive Cobbles, very dense-dy to damp	115	3					
10		42				105	2					
		50/2"					1					
15												
		50/4"					2					
20					Boring Terminated at 20'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 8 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	55			FILL: Dark Brown little Silty fine to coarse Sand, trace fine to coarse Gravel, very dense-moist		9					
	X	32			FILL: Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, trace fine Gravel, dense to very dense-dry to damp		4					
5	X	50/4"					2					
	X	51			ALLUVIUM: Light Gray Brown fine to coarse Sand, some fine Gravel, extensive Cobbles, very dense-dry to damp		2					
10												
	X	50/3"										No Sample Recovered
15												
	X	71					1					
20					Boring Terminated at 20'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-5

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 4 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	37			ALLUVIUM: Light Gray Brown fine to coarse Sand, little fine Gravel, trace Silt, trace Aspaltic Concrete fragments, dense-damp		3					
	X	29			Light Gray Brown fine to coarse Sand, trace Silt, some fine to coarse Gravel, medium dense to very dense-dry to damp		2					
5	X	48					3					
	X	39					1					
10												
	X	50/5"					1					
15					Boring Terminated at 15'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-6

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 6 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3.5 inches Asphaltic Concrete, no discernible Aggregate Base							
		76			FILL: Dark Brown Silty fine Sand, trace Asphaltic Concrete fragments, very dense-moist	122	11					
					ALLUVIUM: Gray Brown fine to coarse Sand, some fine Gravel, occasional Cobbles, very dense-damp							
		50			Light Brown fine to coarse Sand, occasional to extensive Cobbles, some fine Gravel, medium to dense-dry to damp	104	4					
5		33				125	2					
		34				125	5					
10		63				122	3					
15		48					2					
20		39					2					
					Boring Terminated at 20'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-7

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 12 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	65			FILL: Dark Brown Silty fine Sand, trace fine root fibers, trace little fine Gravel, molted, occasional Cobbles, dense-damp to moist		8					Disturbed Sample
	X	47				101	11					
5	X	38				121	4					
	X	50/4"			Brown fine to coarse Sand, little fine Gravel, some Cobbles, very dense-damp	95	6					
	X	66			ALLUVIUM: Light Brown fine to coarse Sand, extensive Cobbles, trace to little Silt, some fine to coarse Gravel, dense to very dense-dry to damp	117	2					
10												
	X	57					2					
15												
	X	63					4					
20												
	X	50/2"					2					
25					Boring Terminated at 25'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-8

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 7 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	27			FILL: Dark Brown fine to coarse Sand, molted, occasional Cobbles, trace fine root fibers, little Silt, medium dense-very moist	110	18					
	X	26				88	13					
5	X	77/9"			ALLUVIUM: Light Brown fine to coarse Sand, occasional Cobbles, very dense-moist	119	10					
	X	25			Light Gray to Brown fine to coarse Sand, occasional Cobbles, little fine Gravel, medium dense-damp	108	7					
10	X	28				123	5					
					Light Gray fine to coarse Sand, some fine to coarse Gravel, dense to very dense-damp							
15	X	43					5					
20	X	50/3"					4					
					Boring Terminated at 20'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-9

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 19 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3 inches Asphaltic Concrete, no discernible Aggregate Base							
	X	17			FILL: Gray Brown fine to medium Sand, trace coarse Sand, little Silt, trace fine Gravel, medium dense-damp	105	5					
	X	10				100	6					
5	X	10			FILL: Dark Brown Silty fine Sand, little medium to coarse Sand, trace fine to coarse Gravel, loose, damp	112	7					
	X	55			ALLUVIUM: Light Gray Brown fine to coarse Sand, some fine to coarse Gravel, occasional Cobble, dense-dry to damp	115	3					
10	X	37				118	2					
15	X	50/9"					2					
20	X	50/4"					2					
	X	20			Brown Silty fine Sand, little medium to coarse Sand, trace fine Gravel, medium dense-moist		13					
25					Boring Terminated at 25'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-10

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 15 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	11			FILL: Dark Brown fine to medium Sand, little Silt, trace fine to coarse Gravel, medium dense-moist		10					
	X	35			ALLUVIUM: Gray Brown fine to coarse Sand, some fine to coarse Gravel, occasional to extensive Cobbles, dense to very dense-dry to damp		2					
5	X	82/8"					3					
	X	43					4					
10												
	X	42					4					
15												
					Gray Brown to Brown fine to coarse Sand, trace Silt, trace to little fine to coarse Gravel, dense-damp							
	X	37					6					
20												
					Boring Terminated at 20'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-11

JOB NO.: 19G121
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 3/16/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
	X	16			FILL: Dark Brown fine to medium Sand, trace fine Gravel, little Silt, medium dense-damp		7					
	X	9			ALLUVIUM: Brown to Dark Brown fine Sand, trace medium Sand, trace fine Gravel, loose to medium dense-moist		10					
5	X	13					9					
	X	15			ALLUVIUM: Light Gray Brown fine couse Sand, trace to little fine Gravel, medium dense-damp		3					
10												
					Light Brown fine to course Sand, some fine to course Gravel, occasional Cobble, dense to very dense-dry to damp							
	X	33					2					
15												
	X	71/9"					2					
20												
					Boring Terminated at 20'							

TBL 19G121.GPJ SOCALGEO.GDT 4/8/19

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

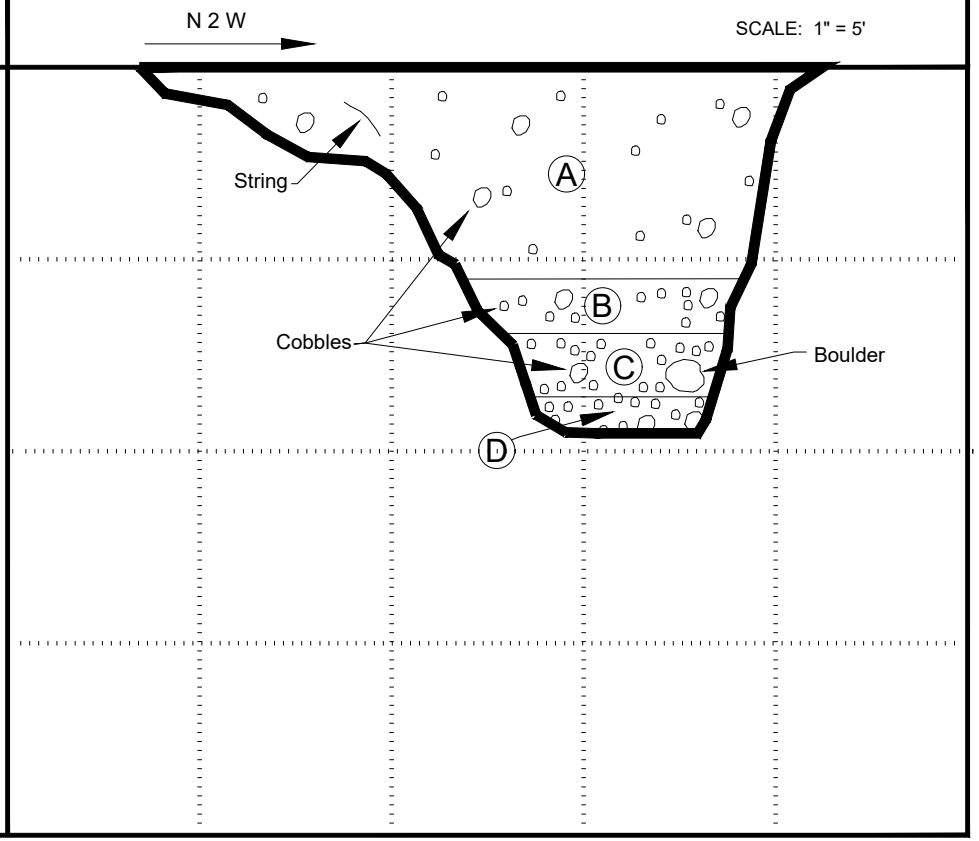
JOB NO.: 19G121-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Rancho Cucamonga, CA
DATE: 3-11-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 2 W
ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		7	A: FILL: Brown Silty fine to medium Sand, little coarse Sand, little fine to coarse Gravel, occasional Cobbles, trace String, trace fine root fibers, medium dense - damp @ 0 to 1 foot, abundant fine root fibers
5	b		4	B: ALLUVIUM: Light Gray Gravelly fine to coarse Sand, occasional to extensive Cobbles, dense - damp C: ALLUVIUM: Gray Brown fine to coarse Sandy Gravel, extensive Cobbles, occasional Boulders, very dense - damp
10	b		4	D: ALLUVIUM: Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, trace Silt, dense - damp Trench Terminated @ 9.5 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-12

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

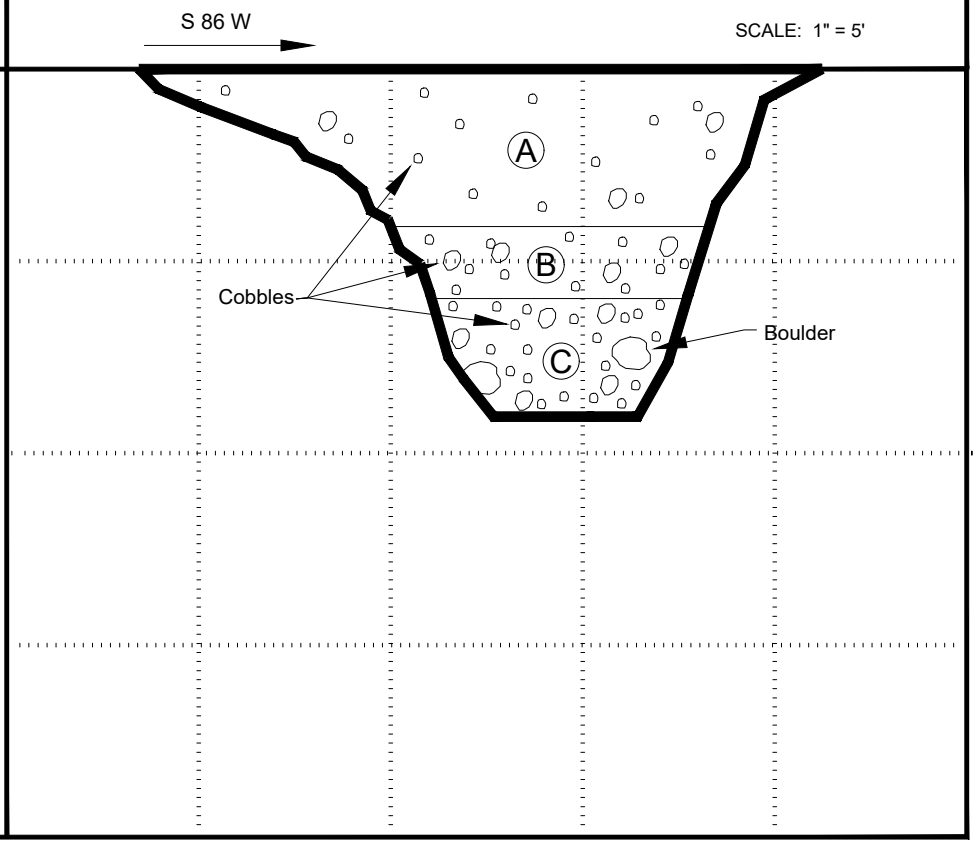
JOB NO.: 19G121-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Rancho Cucamonga, CA
DATE: 3-11-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: S 86 W
ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		6	A: ALLUVIUM: Brown Silty fine to medium Sand, little coarse Sand, trace to little fine to coarse Gravel, occasional Cobbles, trace fine root fibers, loose to medium dense - damp @ 0 to 1 foot, abundant fine root fibers
5	b		7	B: ALLUVIUM: Gray Brown fine to medium Sand, little coarse Sand, little fine to coarse Gravel, occasional to extensive Cobbles, little Silt, medium dense to dense - damp
	b		5	C: ALLUVIUM: Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, occasional Boulders, trace Silt, dense to very dense - damp
10				Trench Terminated @ 9 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-13

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

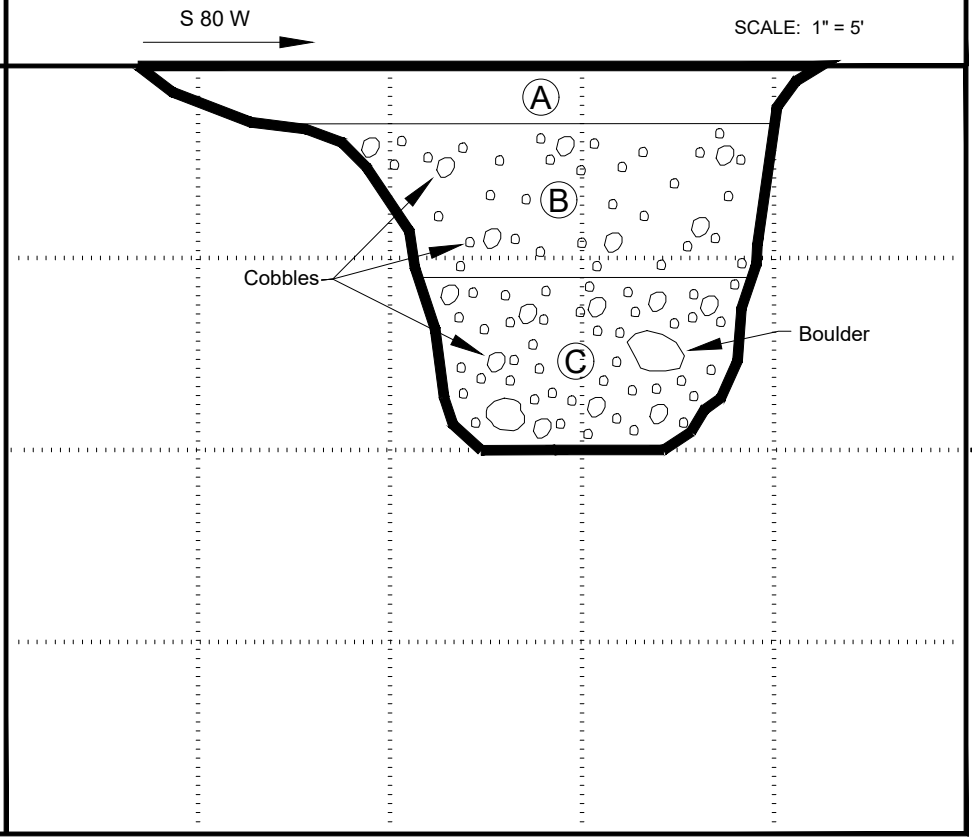
JOB NO.: 19G121-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Rancho Cucamonga, CA
DATE: 3-11-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: S 80 W
ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		11	A: FILL: Gray Brown Silty fine to medium Sand, little coarse Sand, trace fine to coarse Gravel, trace fine root fibers, loose to medium dense - moist
	b		4	B: ALLUVIUM: Light Gray Gravelly fine to coarse Sand, occasional to extensive Cobbles, trace to little Iron oxide staining, dense - damp
5	b		6	C: ALLUVIUM: Gray Brown fine to coarse Sandy Gravel, extensive Cobbles, occasional Boulders, trace Silt, dense to very dense - damp
10	b		4	Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-14

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

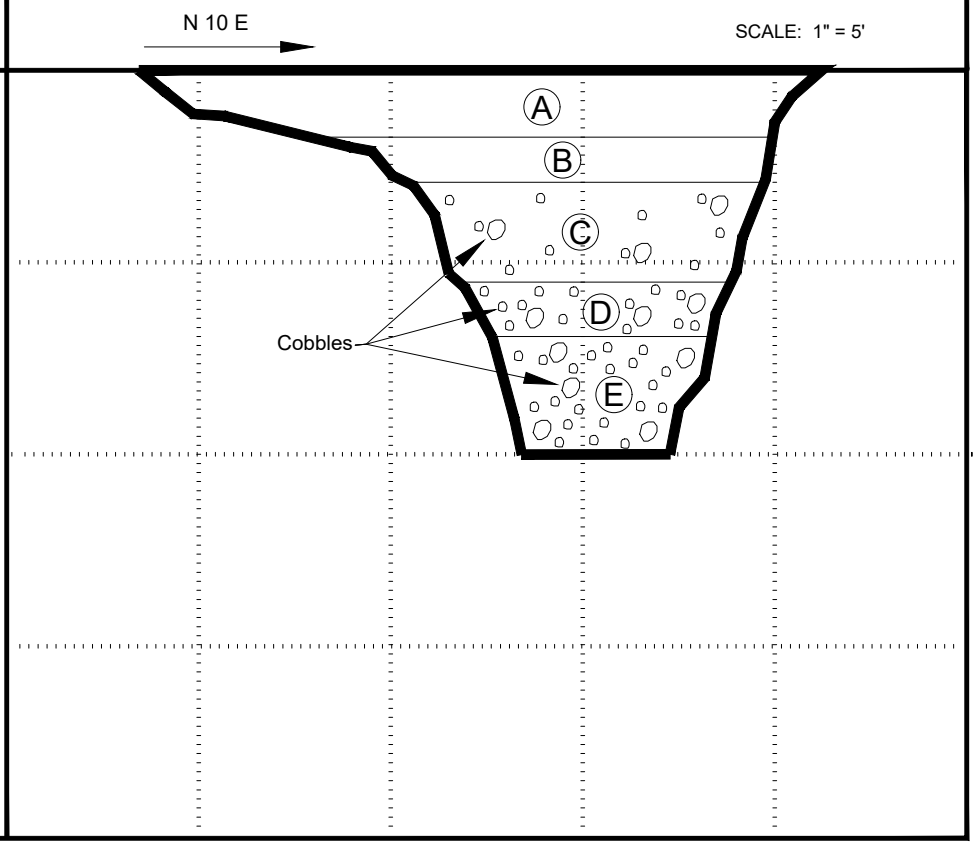
JOB NO.: 19G121-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Rancho Cucamonga, CA
DATE: 3-11-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 10 E
ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		10	A: ALLUVIUM: Brown Silty fine Sand, little medium to coarse Sand, abundant fine root fibers to approximately 1 foot, trace fine root fibers, loose - moist
	b		5	B: ALLUVIUM: Light Gray fine to coarse Sand, little fine to coarse Gravel, medium dense - damp
	b		4	C: ALLUVIUM: Gray Brown Gravelly fine to coarse Sand, occasional to extensive Cobbles, trace Silt, dense - damp
5	b		3	D: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel, extensive Cobbles, dense to very dense - dry to damp
	b		6	E: ALLUVIUM: Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, little Silt, dense - damp
10	b		8	
				Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION

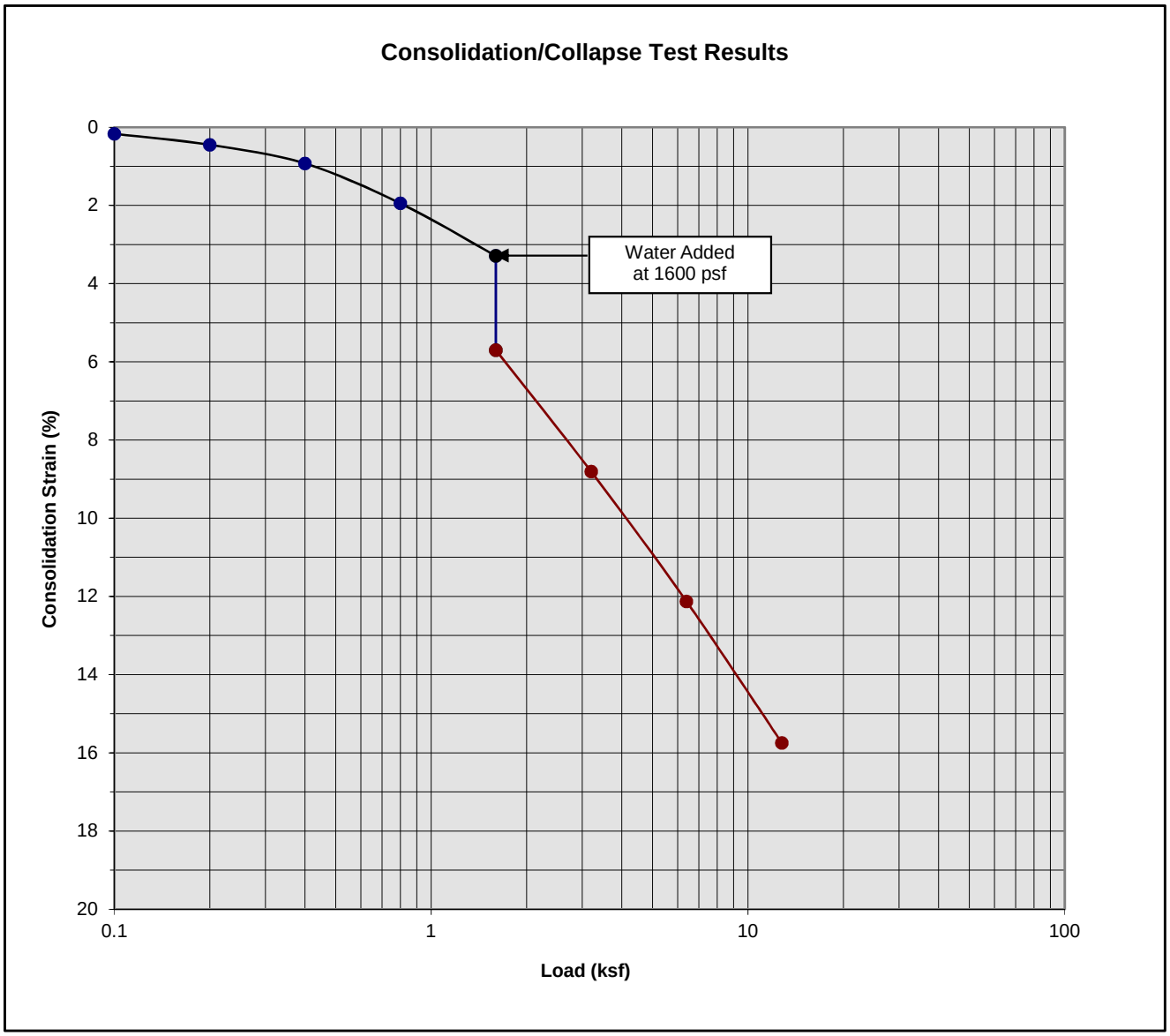


KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-15

APPENDIX C



Classification: FILL: Brown Silty fine to medium Sand, trace coarse Sand

Boring Number:	B-3	Initial Moisture Content (%)	9
Sample Number:	---	Final Moisture Content (%)	23
Depth (ft)	1 to 2	Initial Dry Density (pcf)	81.1
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	107.6
Specimen Thickness (in)	1.0	Percent Collapse (%)	2.41

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
Project No. 19G121

PLATE C- 1

SOUTHERN CALIFORNIA GEOTECHNICAL
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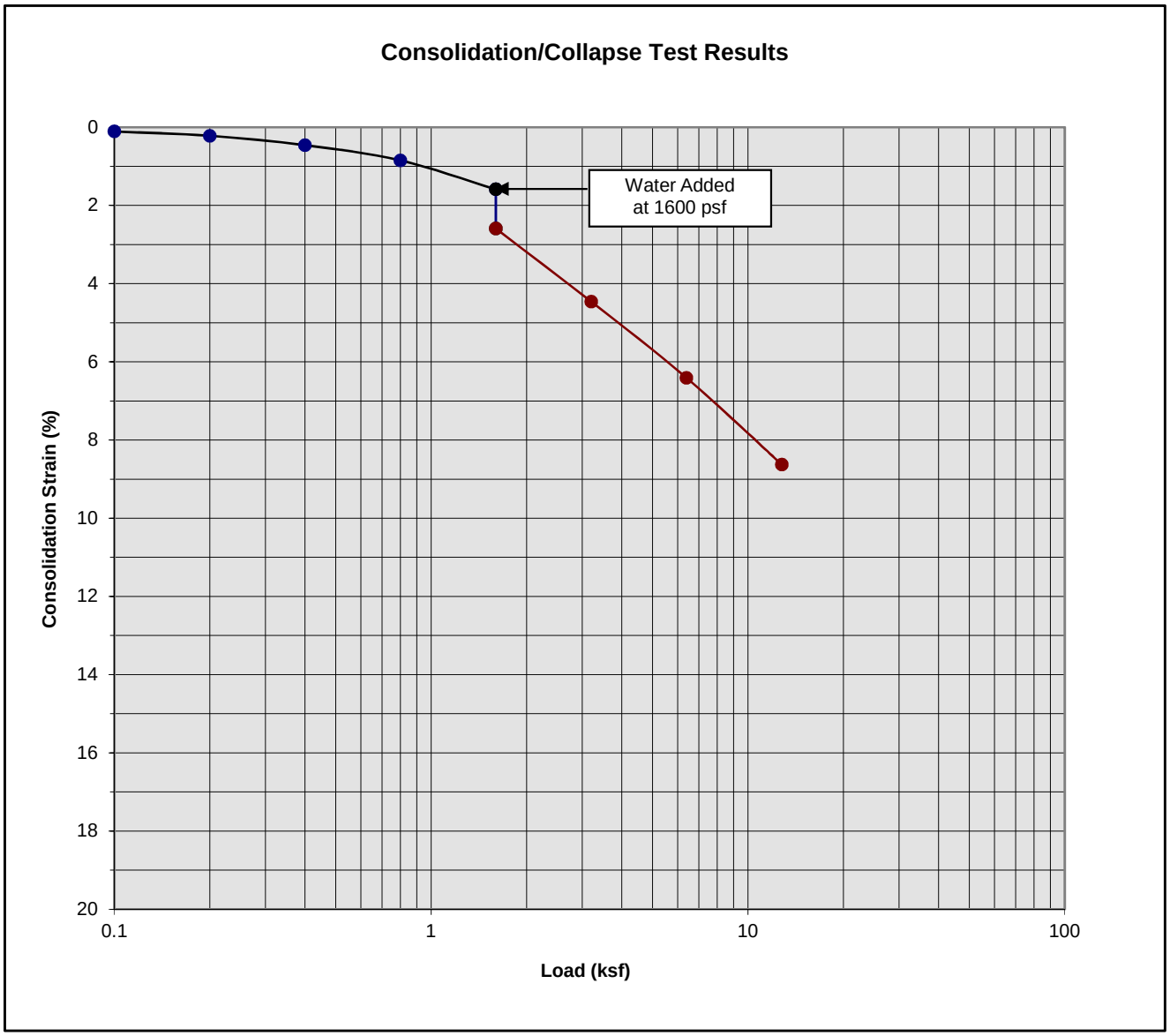

Classification: FILL: Brown Silty fine to medium Sand, trace coarse Sand

Boring Number:	B-3	Initial Moisture Content (%)	9
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	3 to 4	Initial Dry Density (pcf)	102.5
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	111.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.00

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
Project No. 19G121

PLATE C- 2

SOUTHERN CALIFORNIA GEOTECHNICAL
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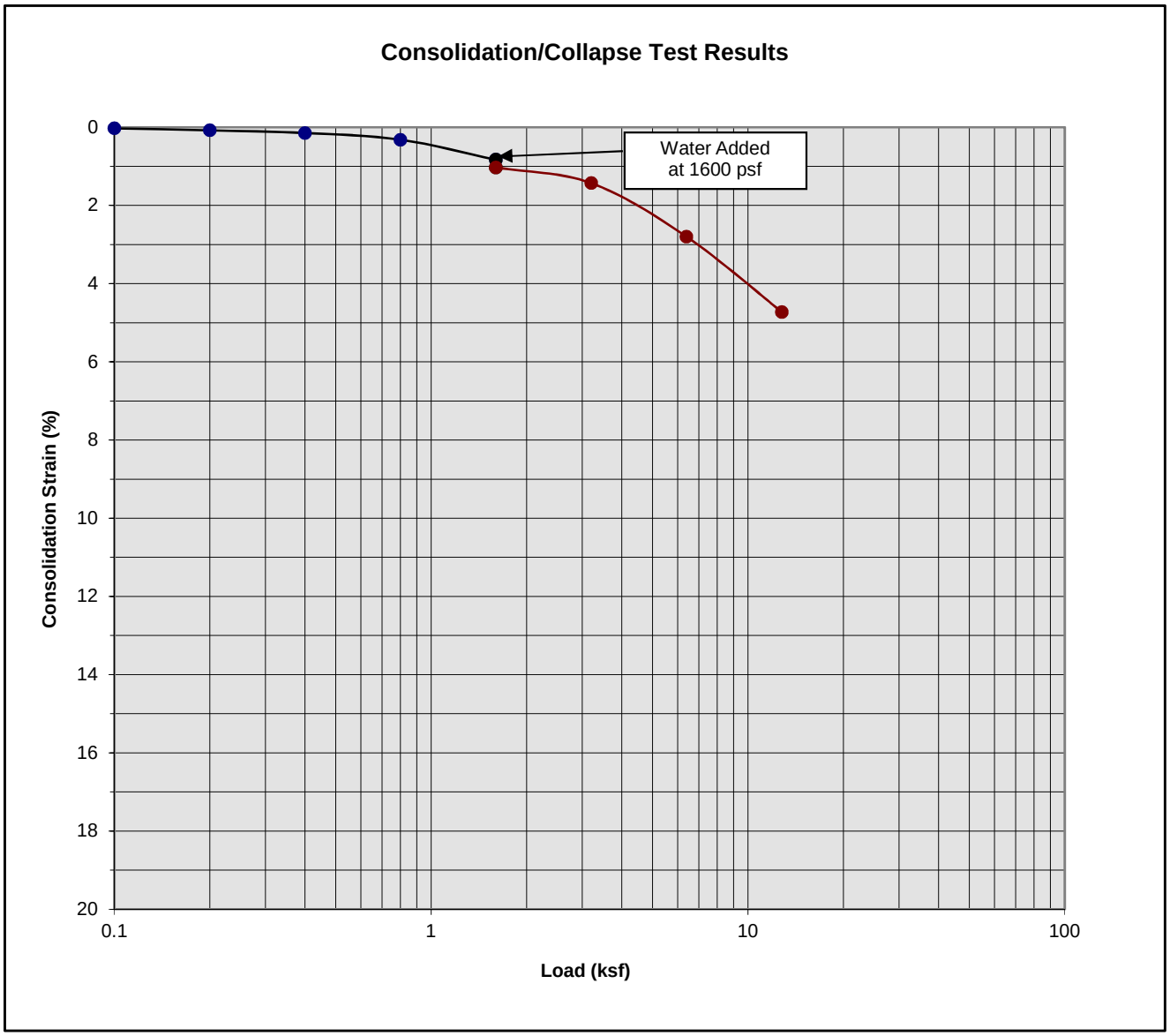


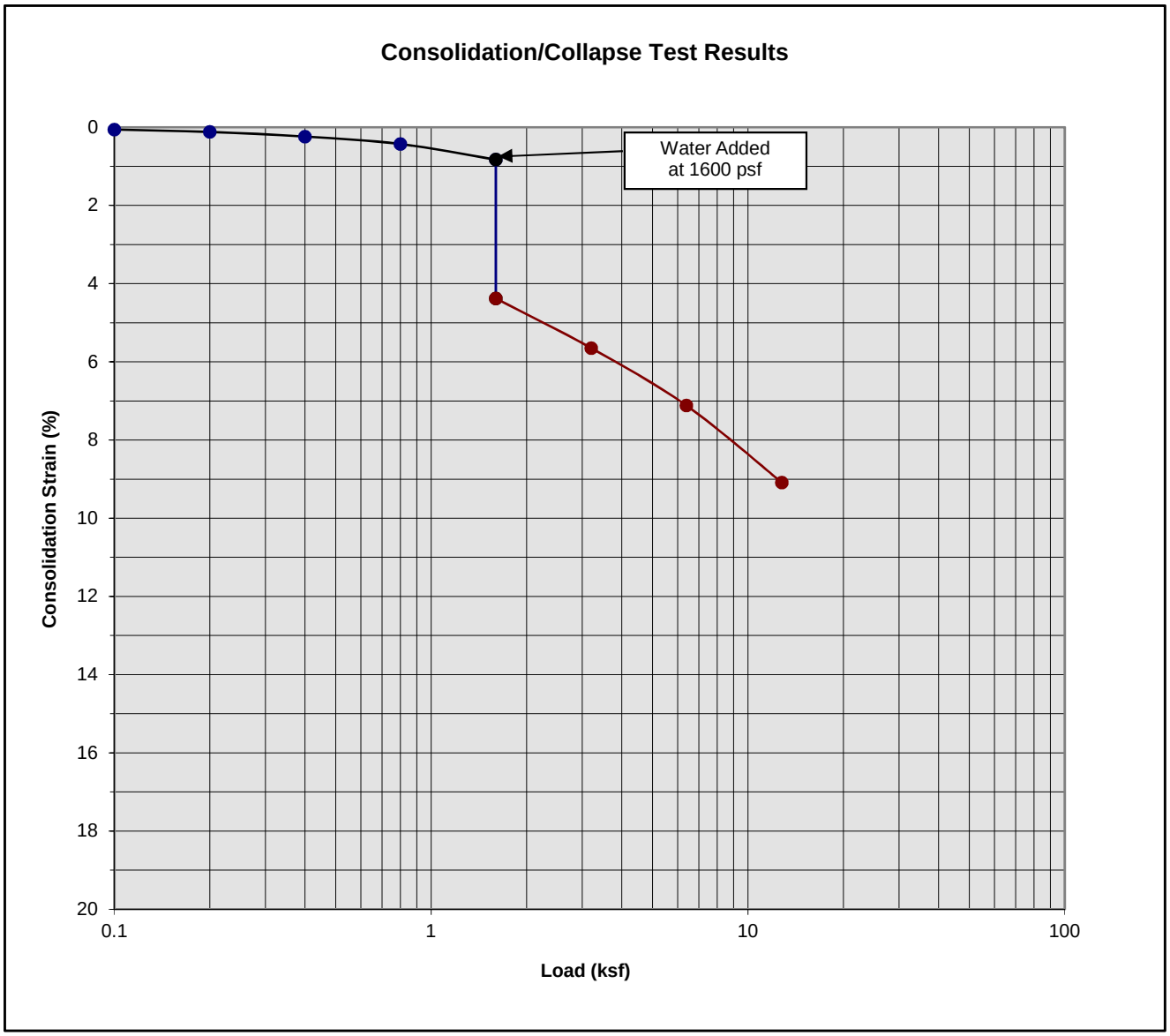
Classification: FILL: Brown Silty fine to medium Sand, trace coarse Sand

Boring Number:	B-3	Initial Moisture Content (%)	12
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	5 to 6	Initial Dry Density (pcf)	108.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	113.6
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.20

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
Project No. 19G121

PLATE C- 3

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation



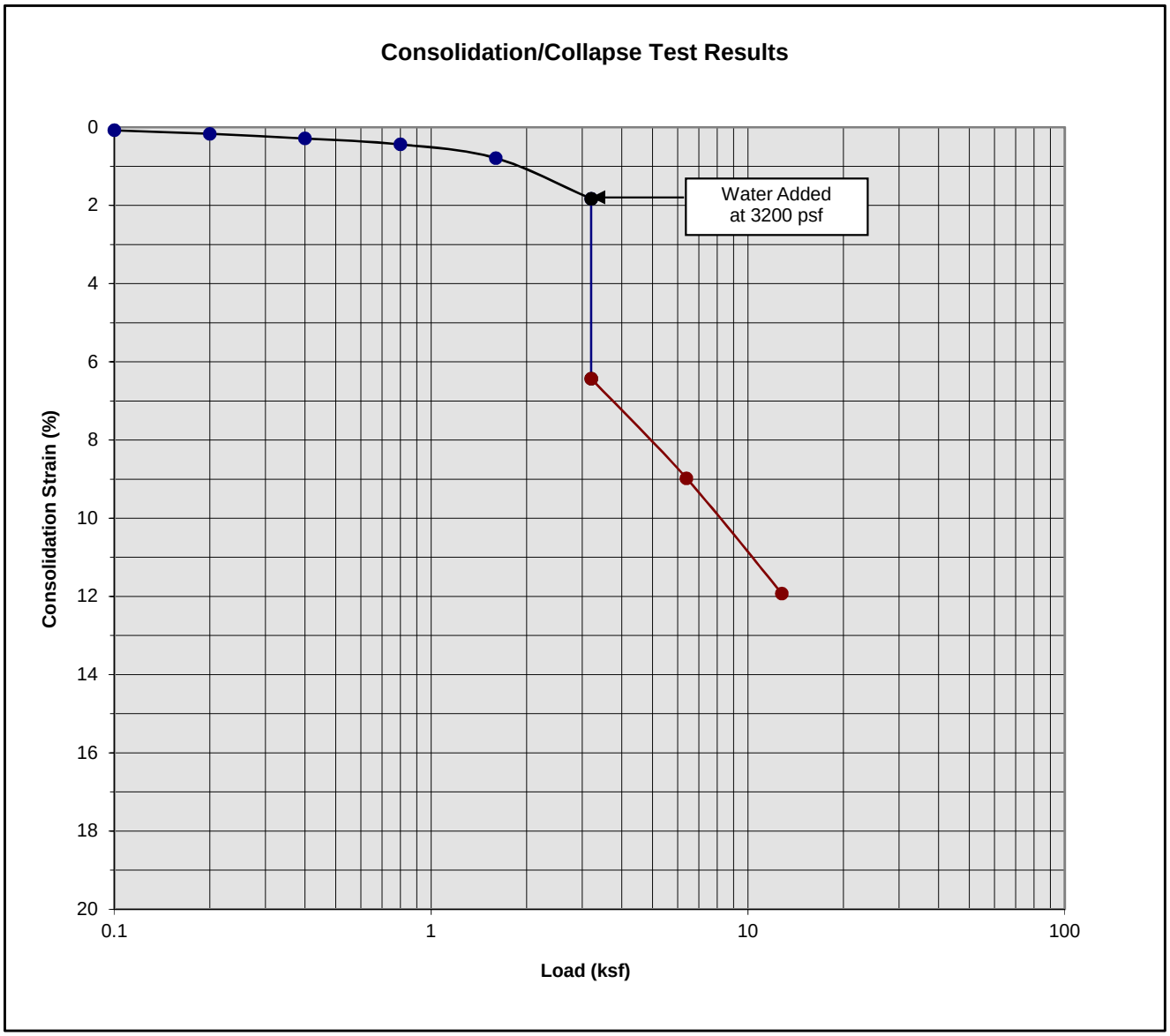
Classification: Brown fine to coarse Sand

Boring Number:	B-3	Initial Moisture Content (%)	3
Sample Number:	---	Final Moisture Content (%)	13
Depth (ft)	9 to 10	Initial Dry Density (pcf)	114.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	117.1
Specimen Thickness (in)	1.0	Percent Collapse (%)	3.55

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
Project No. 19G121

PLATE C- 4

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation



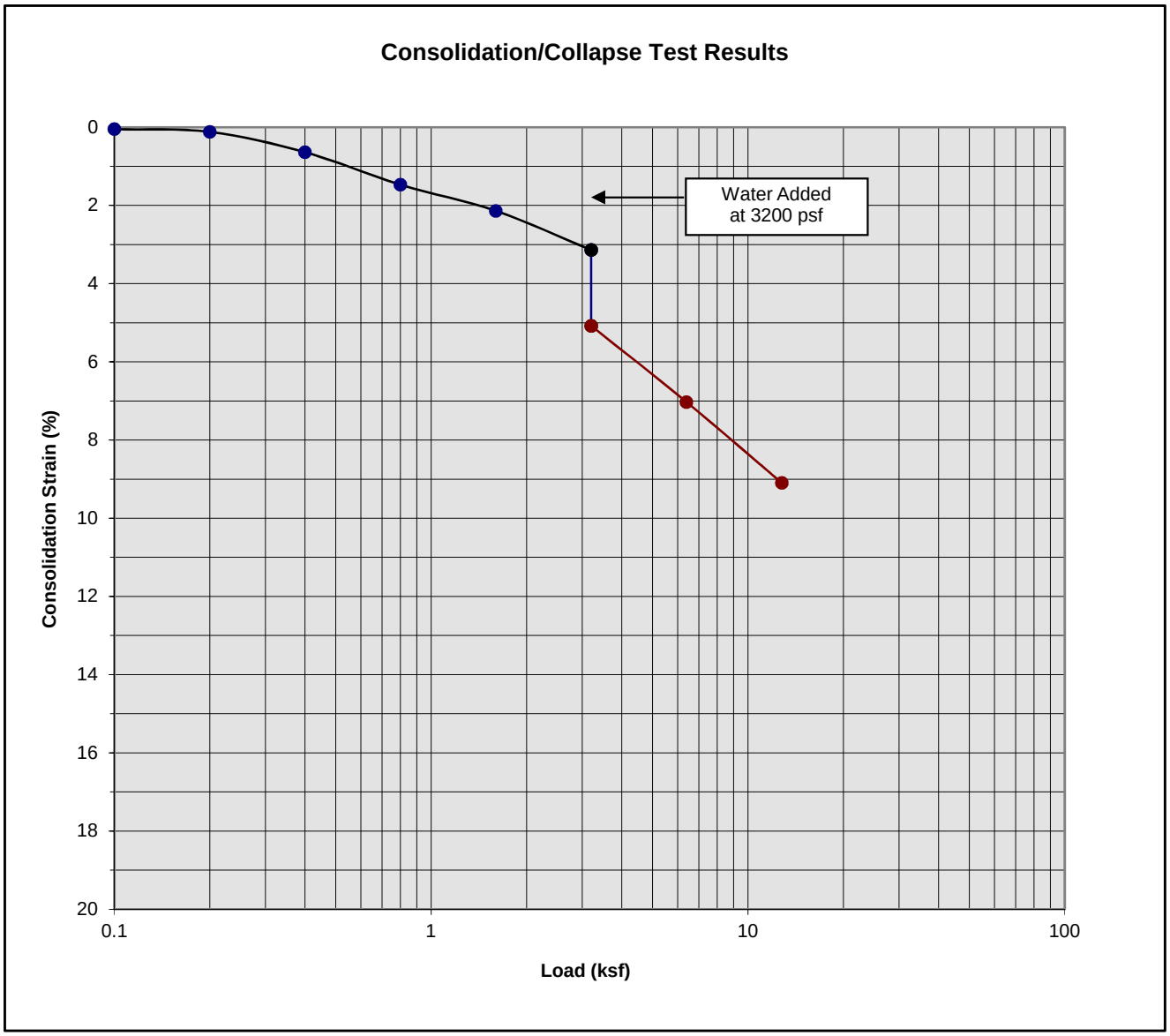
Classification: FILL: Gray Brown fine to coarse Sand

Boring Number:	B-6	Initial Moisture Content (%)	11
Sample Number:	---	Final Moisture Content (%)	13
Depth (ft)	1 to 2	Initial Dry Density (pcf)	122.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	137.0
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.04

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
Project No. 19G121

PLATE C- 5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation



Classification: Light Brown fine to coarse Sand

Boring Number:	B-6	Initial Moisture Content (%)	3
Sample Number:	---	Final Moisture Content (%)	12
Depth (ft)	5 to 6	Initial Dry Density (pcf)	125.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	125.4
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.00

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
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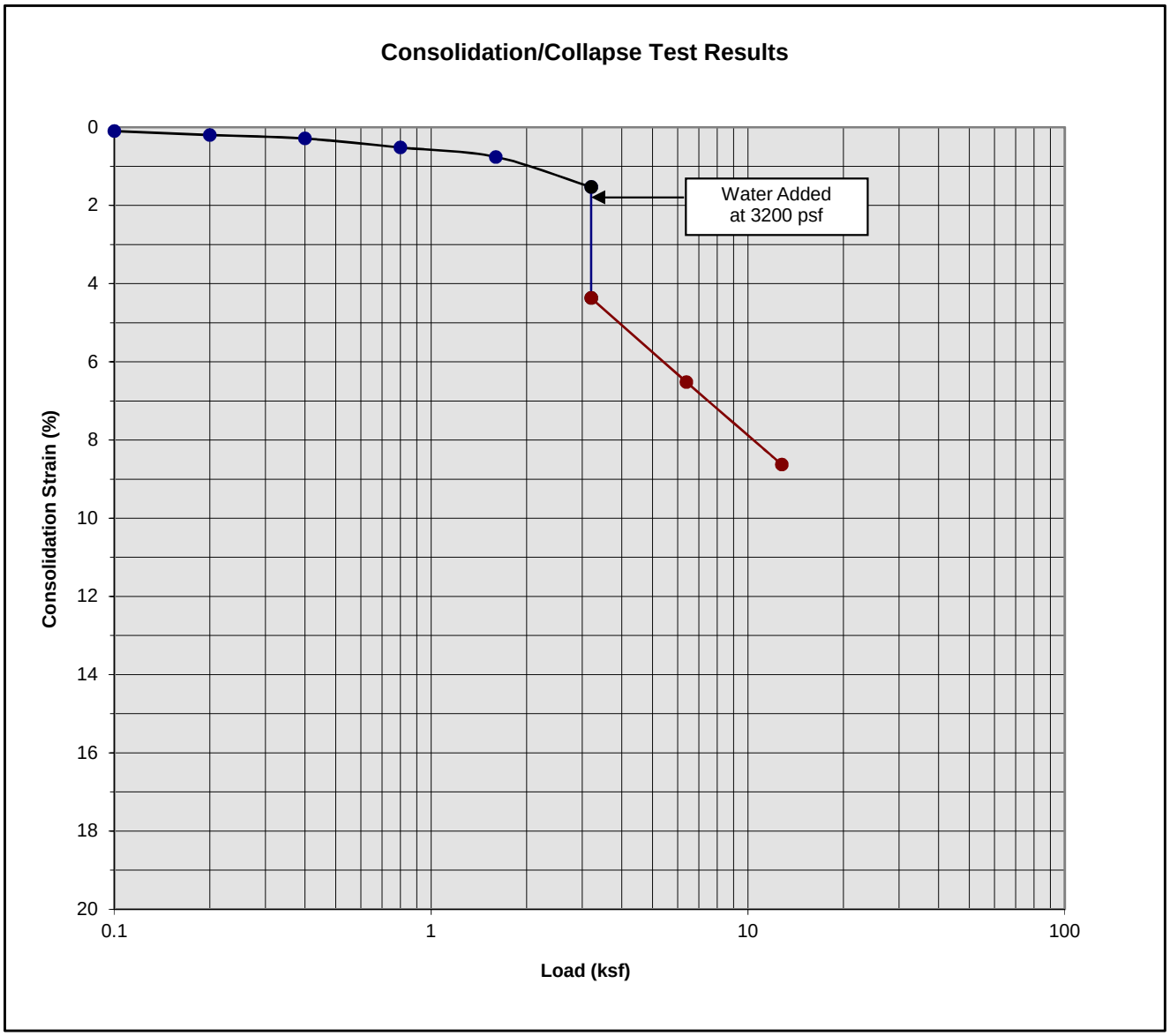
PLATE C- 6

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation



Classification: Light Brown fine to coarse Sand

Boring Number:	B-6	Initial Moisture Content (%)	4
Sample Number:	---	Final Moisture Content (%)	11
Depth (ft)	7 to 8	Initial Dry Density (pcf)	124.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	135.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.77

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
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PLATE C- 7

SOUTHERN CALIFORNIA GEOTECHNICAL
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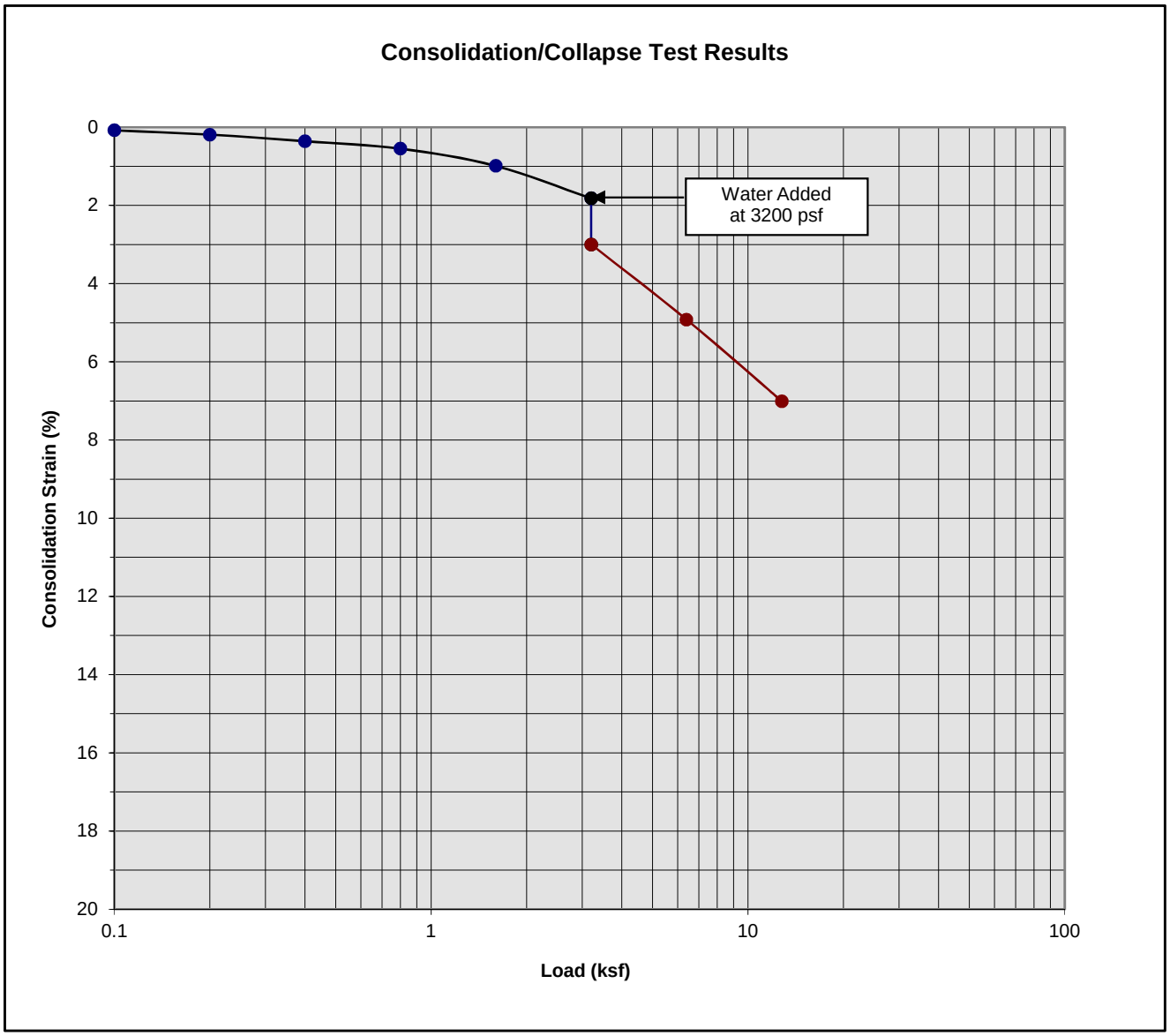

Classification: FILL: Gray Brown fine to medium Sand, trace coarse Sand

Boring Number:	B-9	Initial Moisture Content (%)	5
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	1 to 2	Initial Dry Density (pcf)	104.9
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	110.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.83

Proposed Commercial/Industrial Building
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PLATE C- 8

SOUTHERN CALIFORNIA GEOTECHNICAL
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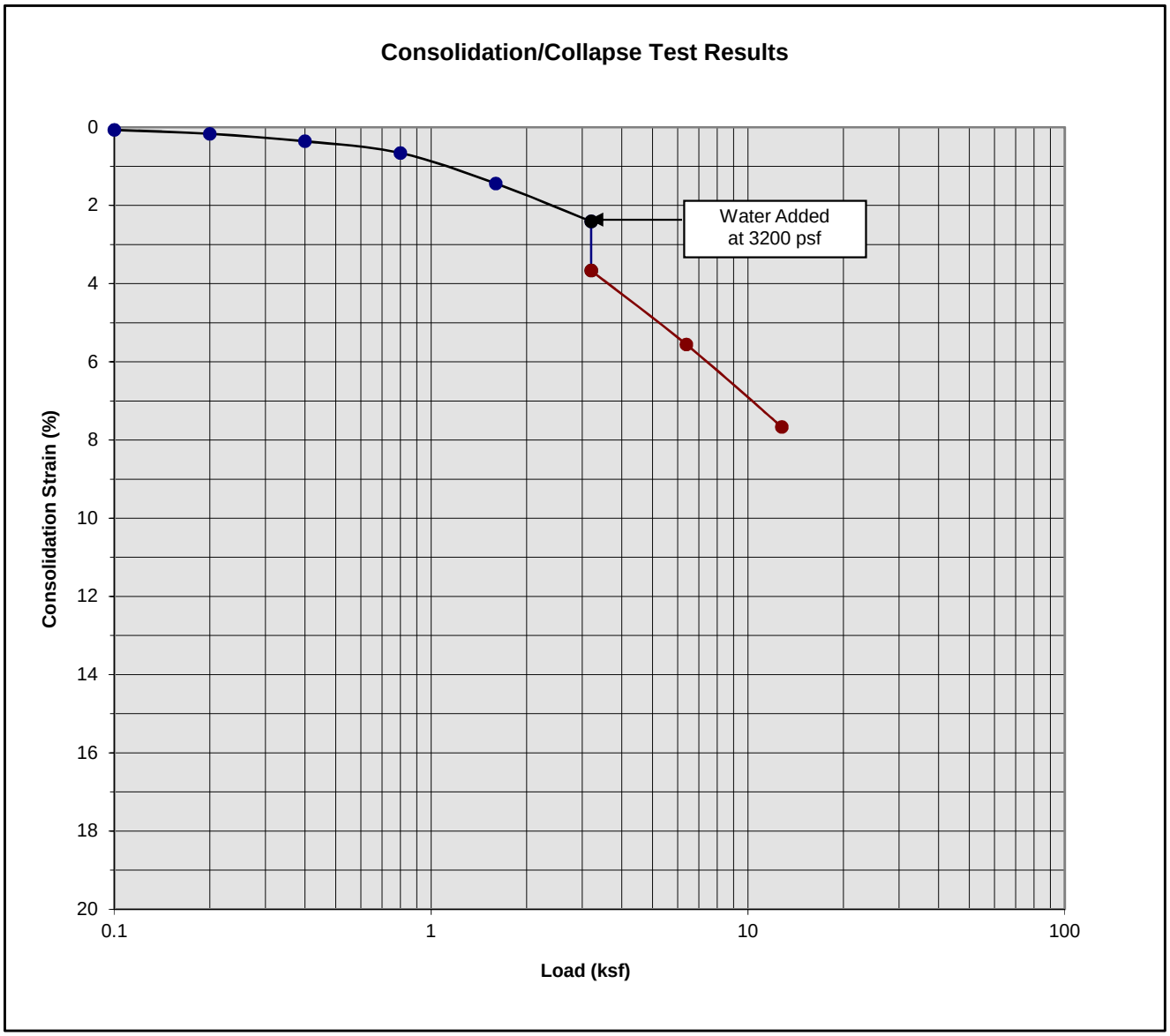

Classification: FILL: Gray Brown fine to medium Sand, trace coarse Sand

Boring Number:	B-9	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	19
Depth (ft)	3 to 4	Initial Dry Density (pcf)	99.1
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	107.0
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.97

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
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PLATE C- 9

SOUTHERN CALIFORNIA GEOTECHNICAL
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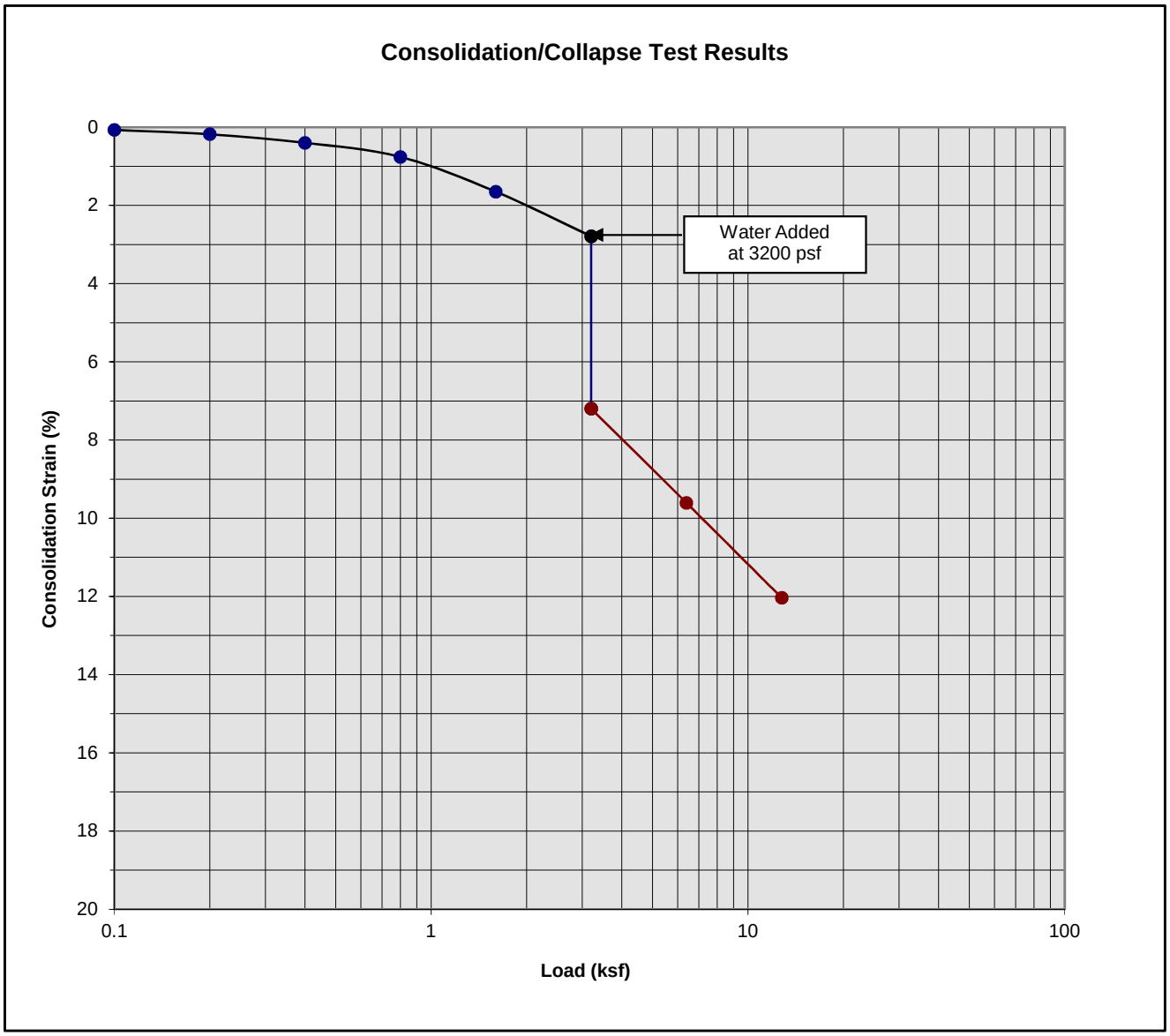

Classification: FILL: Dark Brown Silty fine Sand, little medium to coarse Sand

Boring Number:	B-9	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	5 to 6	Initial Dry Density (pcf)	111.5
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.14

Proposed Commercial/Industrial Building
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PLATE C- 10

SOUTHERN CALIFORNIA GEOTECHNICAL
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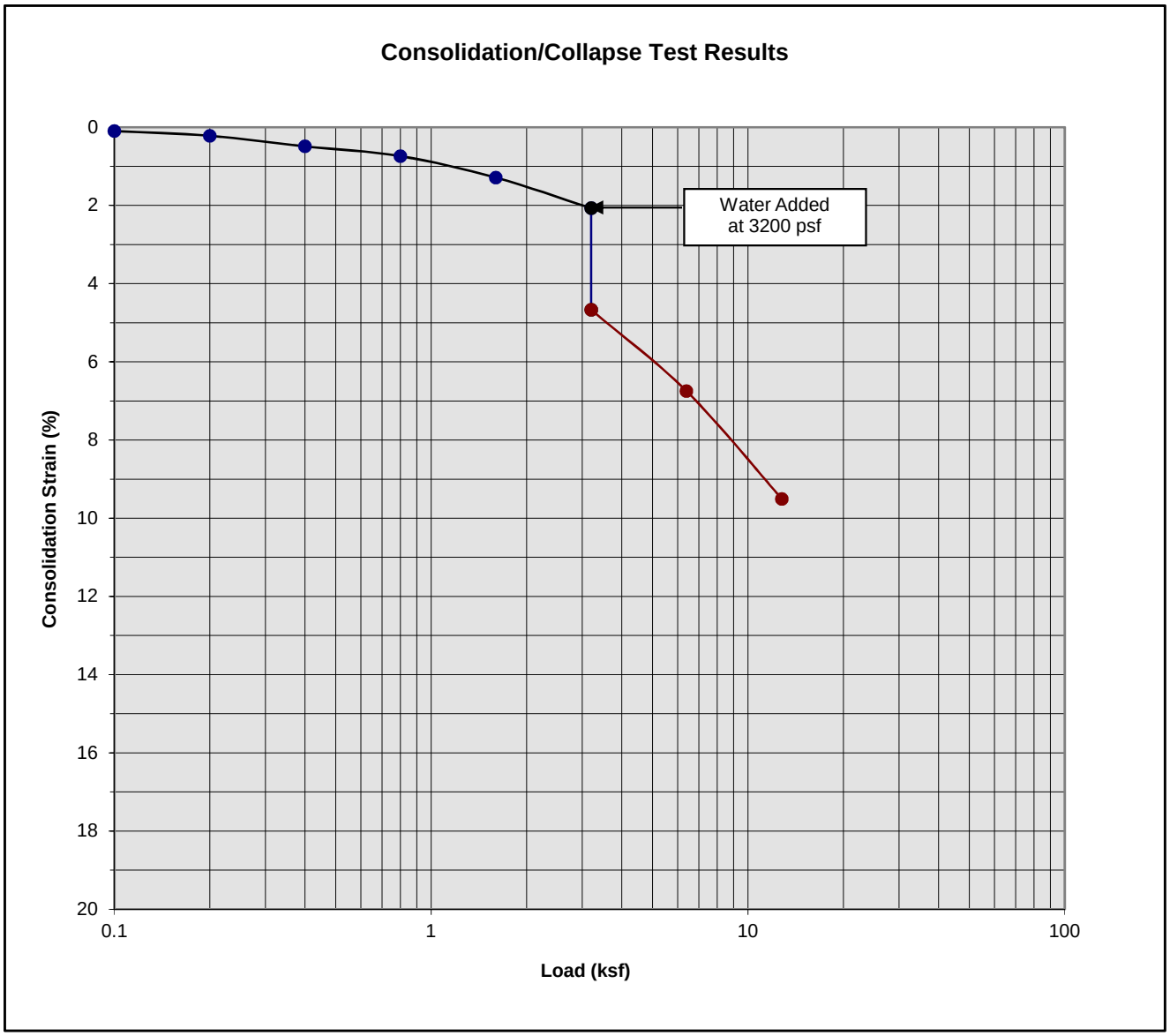

Classification: Light Gray Brown fine to coarse Sand, some fine to coarse Gravel

Boring Number:	B-9	Initial Moisture Content (%)	2
Sample Number:	---	Final Moisture Content (%)	10
Depth (ft)	7 to 8	Initial Dry Density (pcf)	115.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	122.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.78

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
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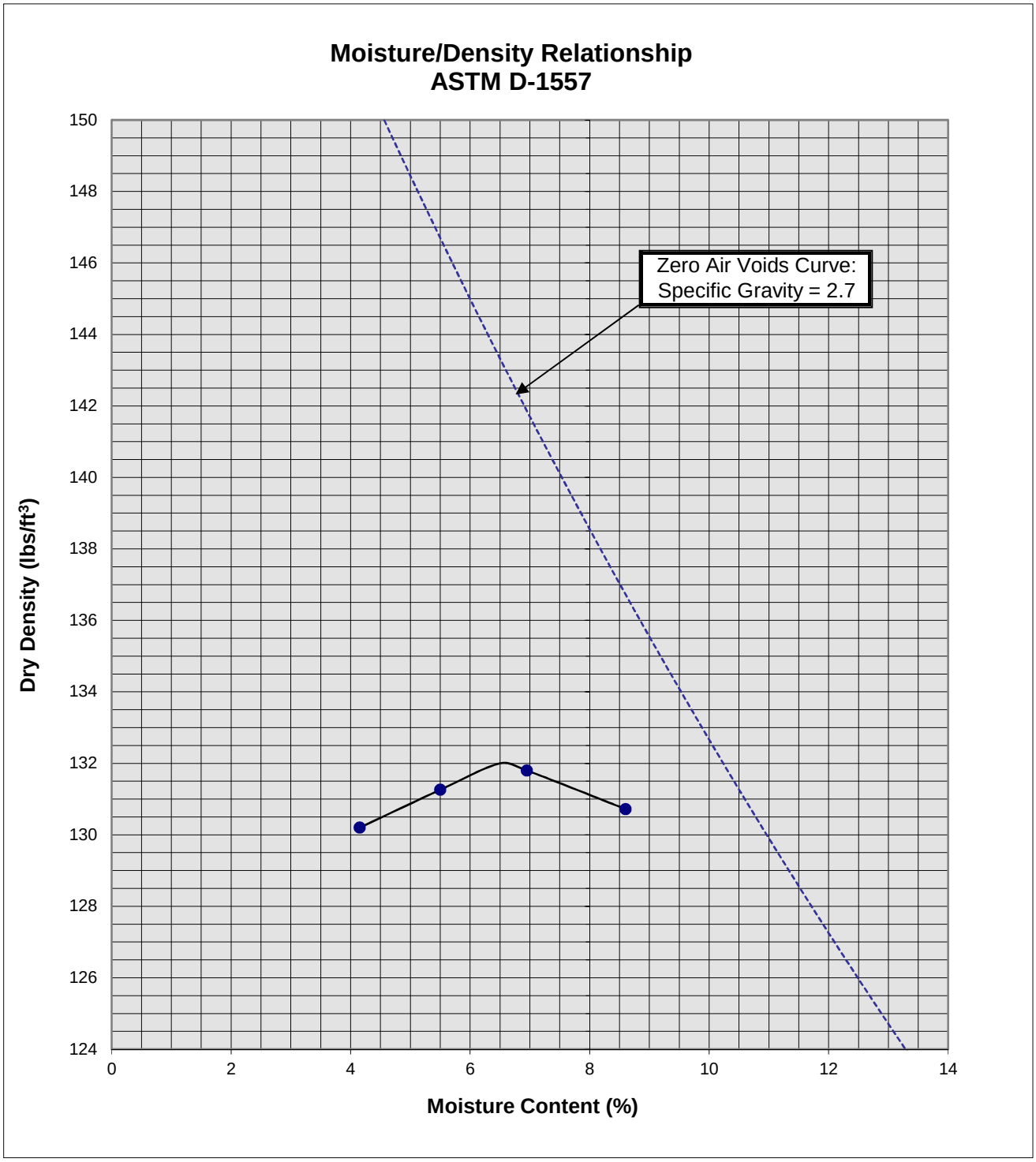
PLATE C- 11

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation



Soil ID Number	B-1 @ 0 to 5'
Optimum Moisture (%)	6.5
Maximum Dry Density (pcf)	132
Soil Classification	Brown fine to coarse Sand, little Silt, some fine to coarse Gravel

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
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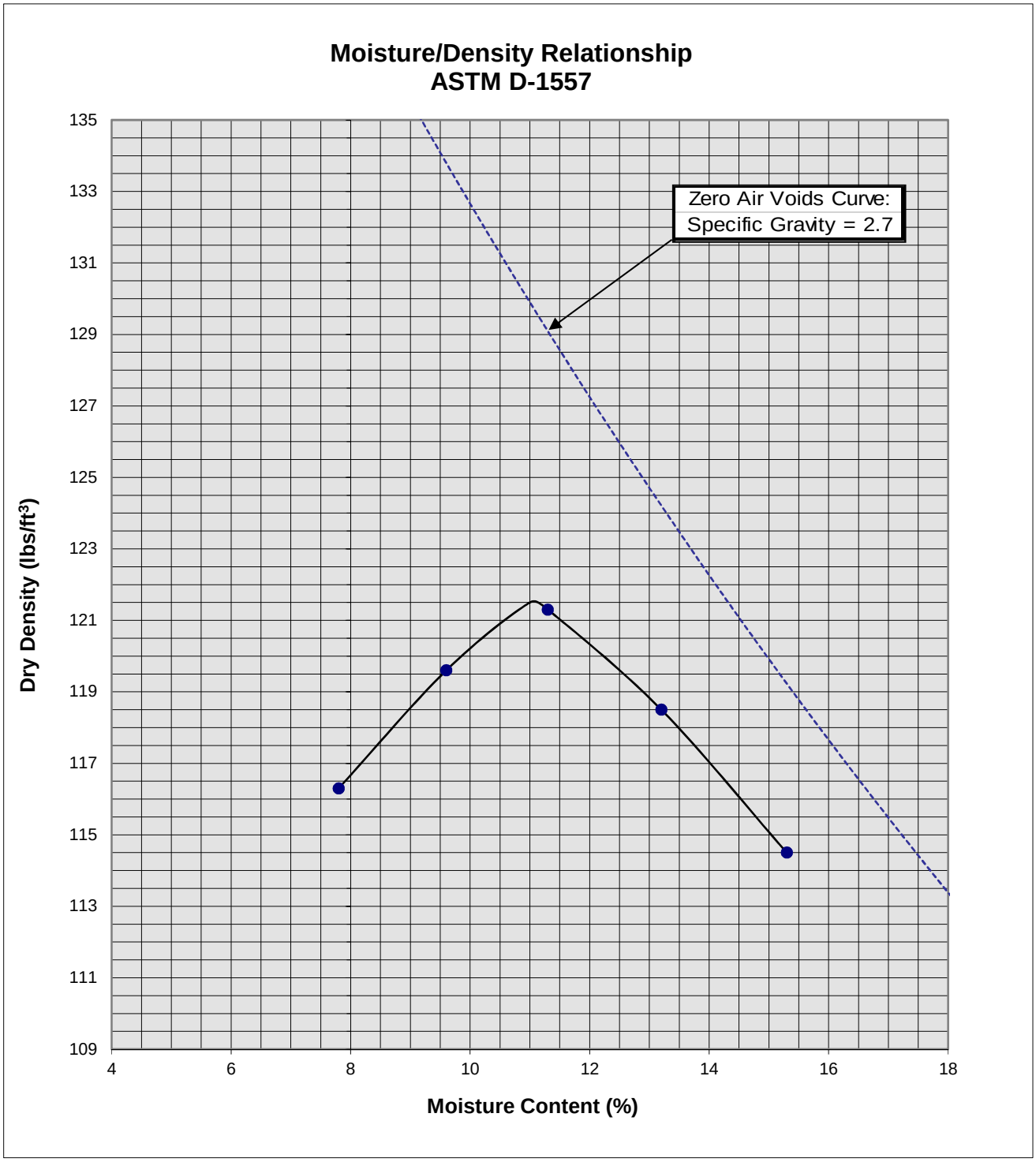
PLATE C-12

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation



Soil ID Number	B-6 @ 0 to 5'
Optimum Moisture (%)	11
Maximum Dry Density (pcf)	121.5
Soil Classification	Brown Silty fine to coarse Sand, some fine Gravel

Proposed Commercial/Industrial Building
Rancho Cucamonga, California
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PLATE C-13

SOUTHERN CALIFORNIA GEOTECHNICAL
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APPENDIX D

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as “contaminated,” and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

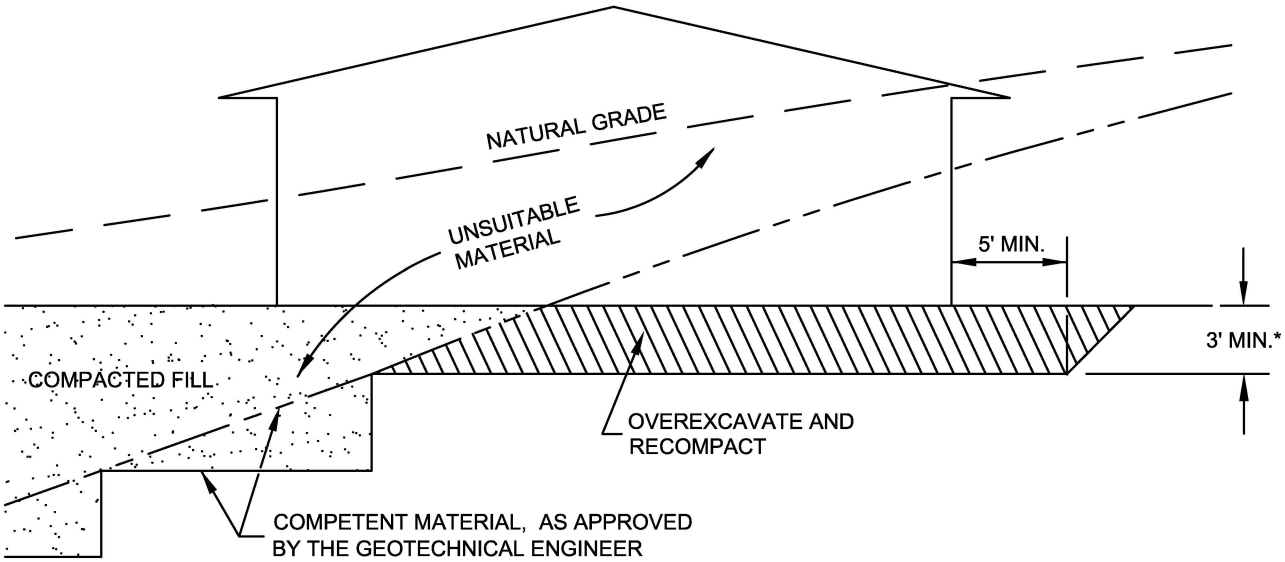
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

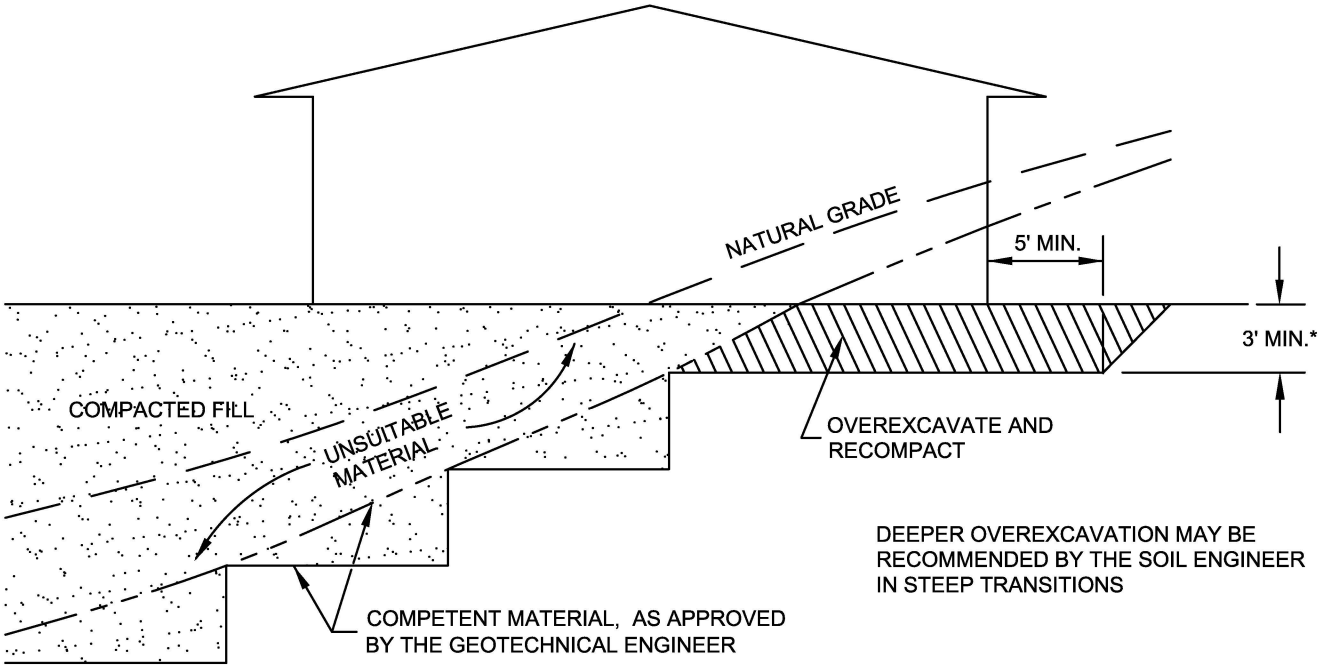
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)



*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION.
ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL

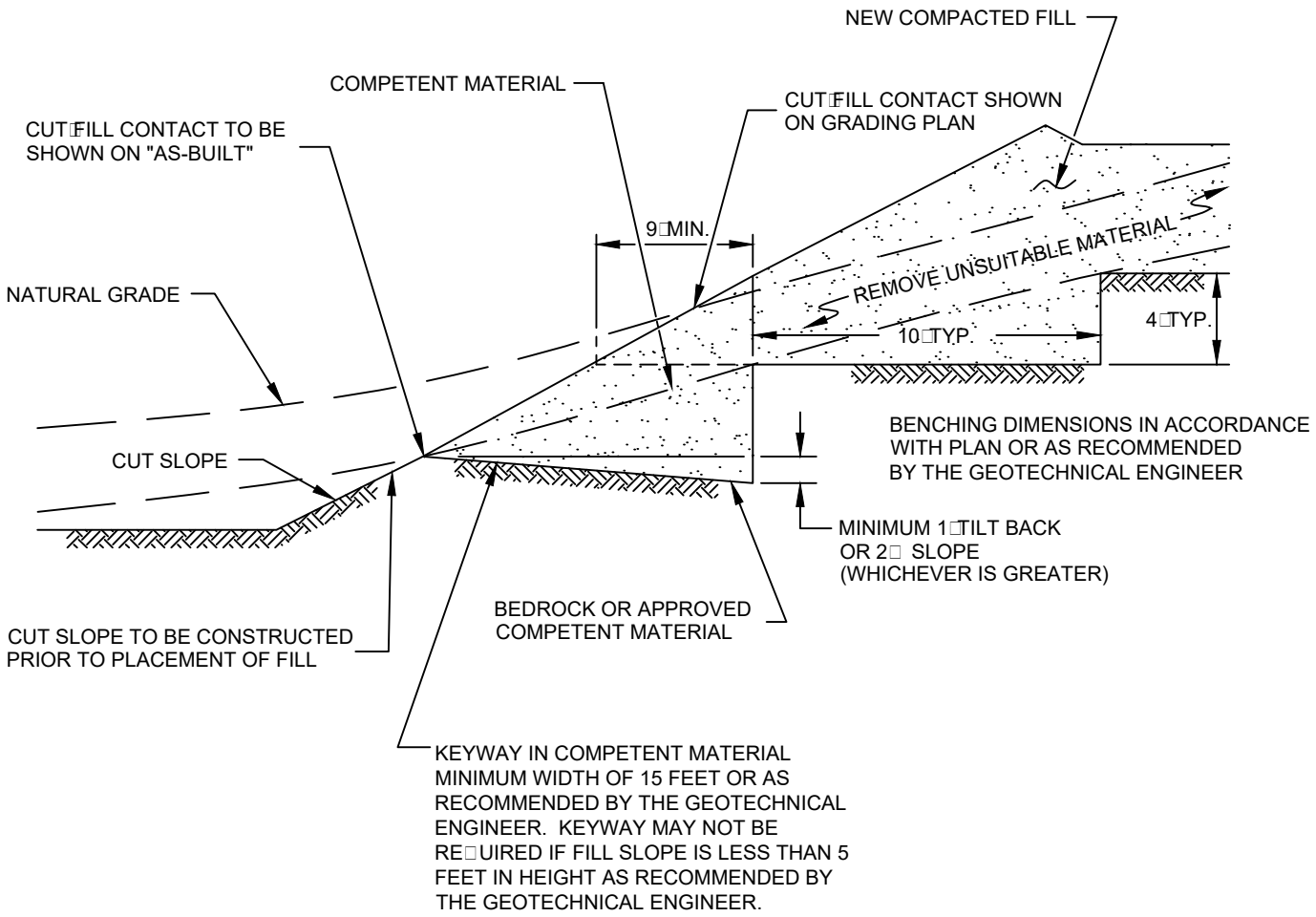
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



FILL ABOVE CUT SLOPE DETAIL

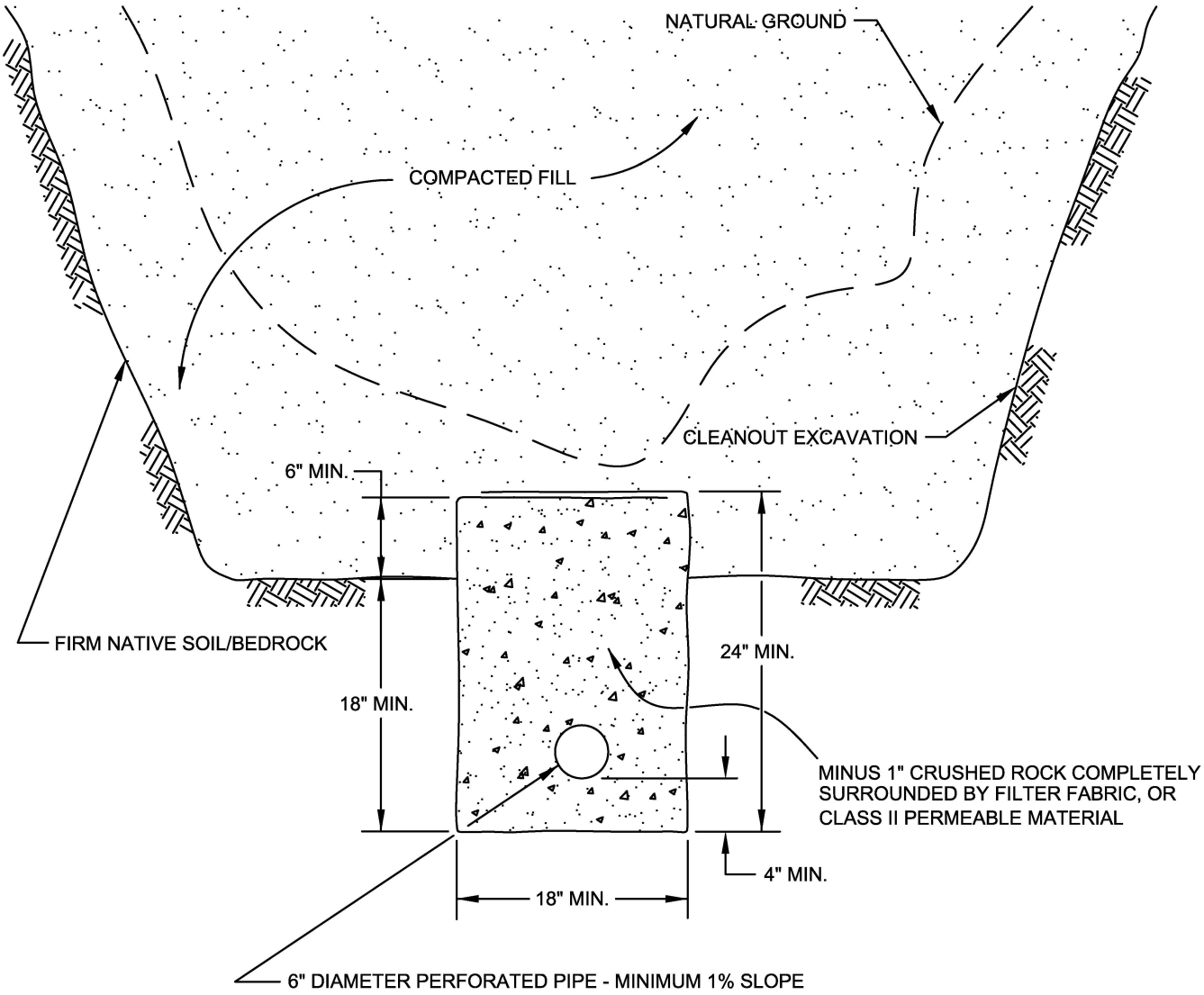
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SOUTHERN CALIFORNIA GEOTECHNICAL



PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL

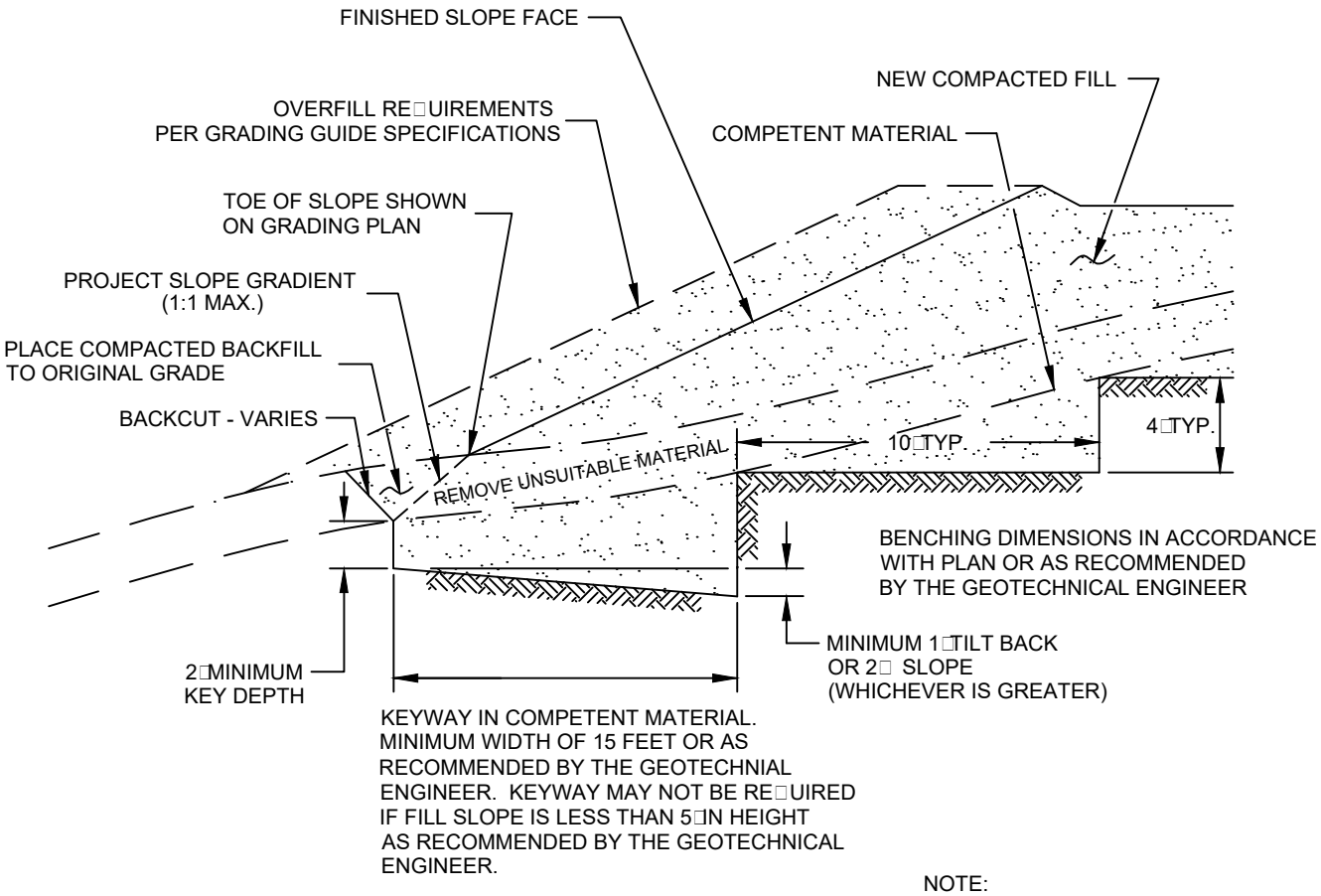
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-3

SOUTHERN CALIFORNIA GEOTECHNICAL



NOTE:
BENCHING SHALL BE RE□UIRED
WHEN NATURAL SLOPES ARE
E□UAL TO OR STEEPER THAN 5:1
OR WHEN RECOMMENDED BY
THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

GRADING GUIDE SPECIFICATIONS

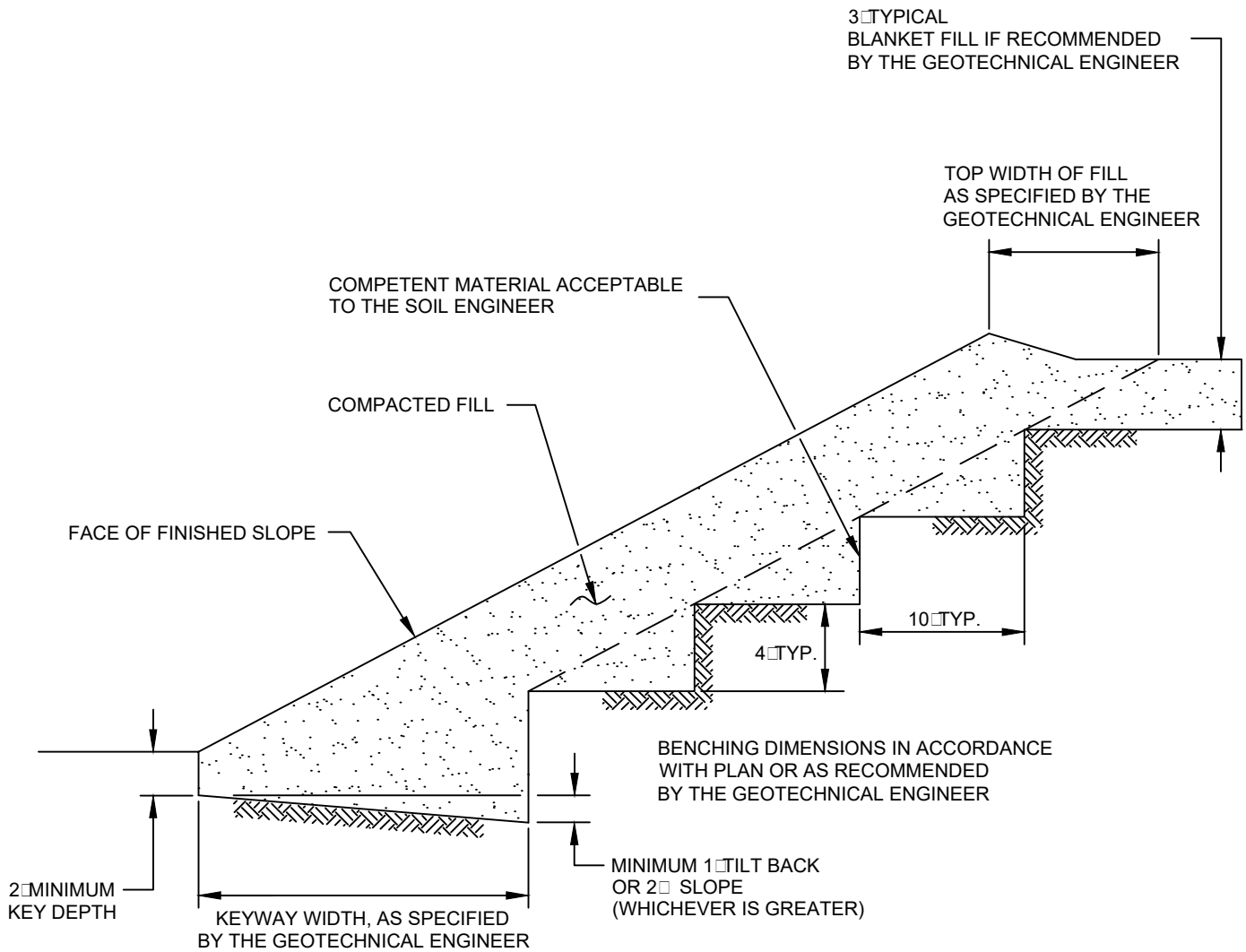
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo

SOUTHERN
CALIFORNIA
GEOTECHNICAL



STABILIZATION FILL DETAIL

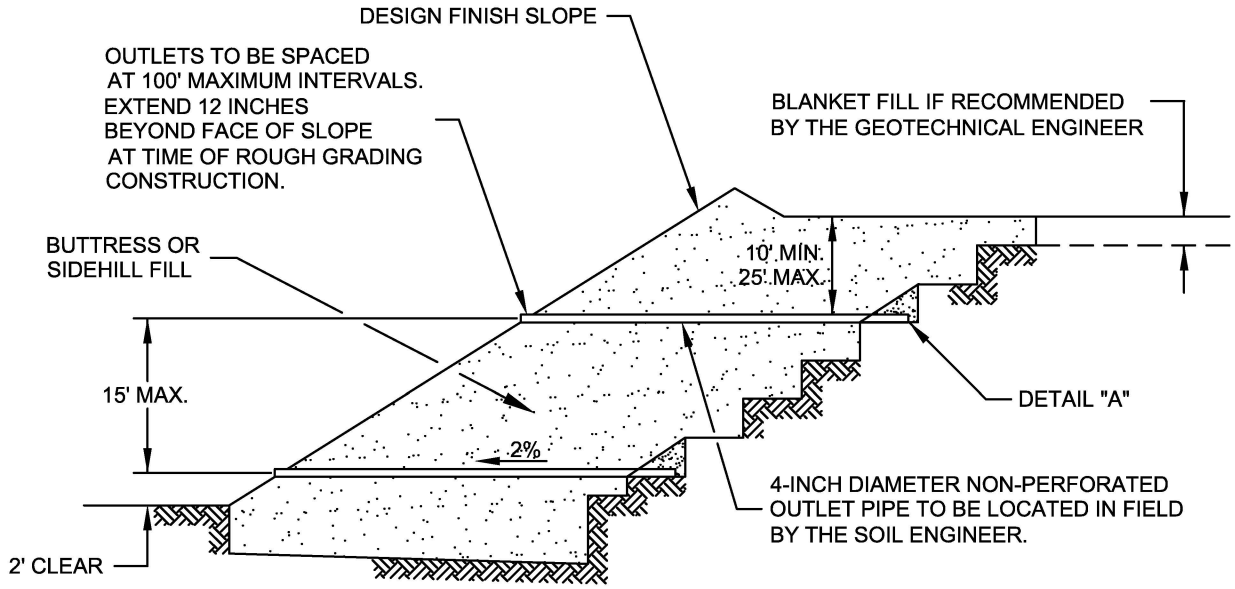
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SOUTHERN CALIFORNIA GEOTECHNICAL



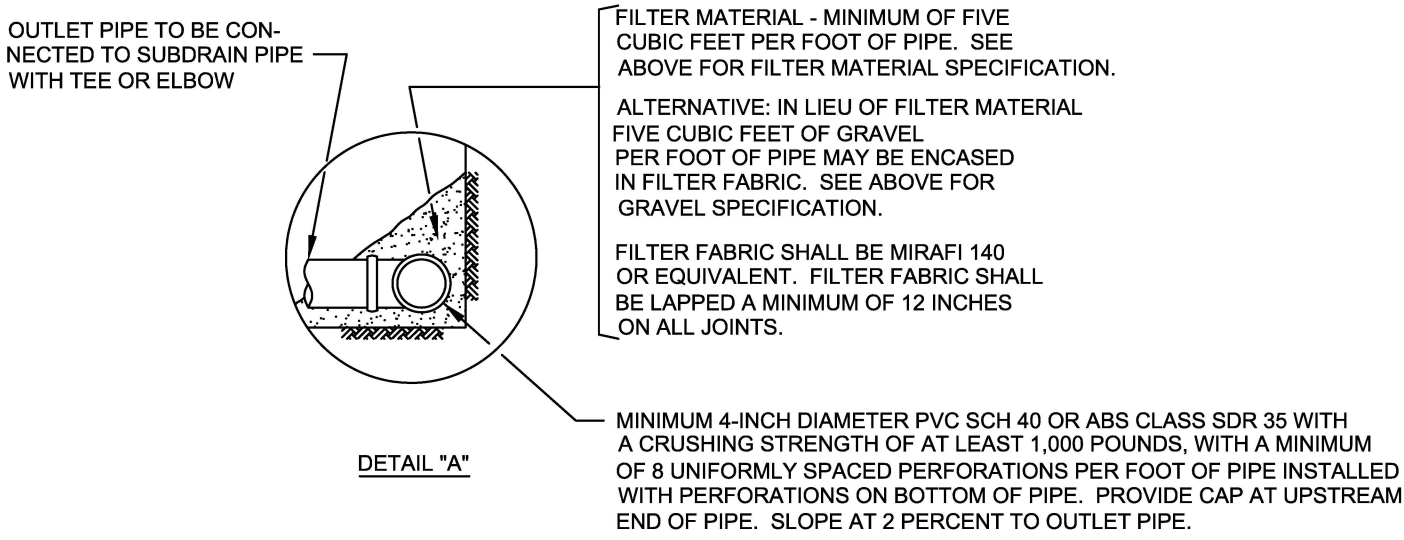
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

NOTES:
1. TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS

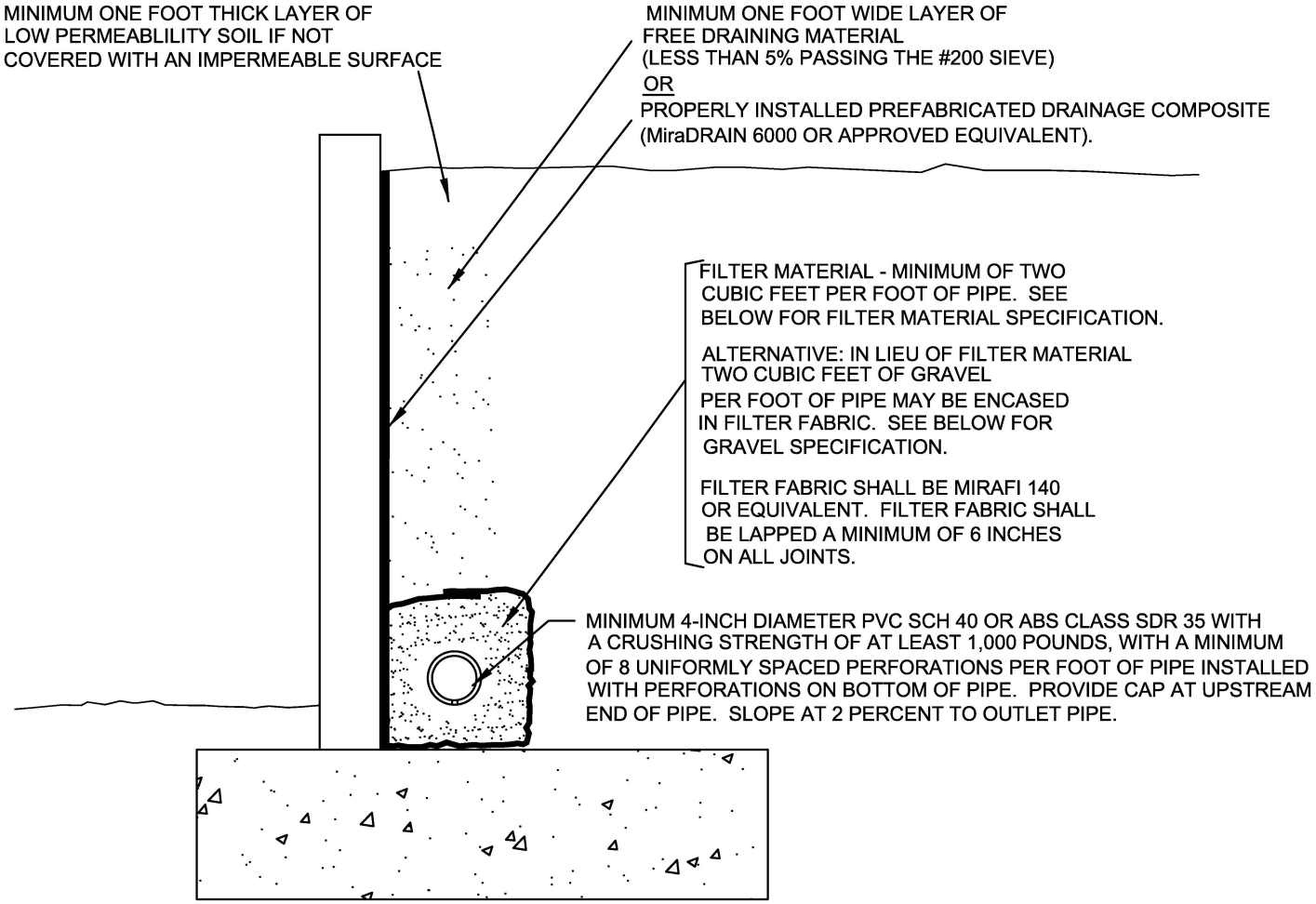
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SOUTHERN CALIFORNIA GEOTECHNICAL



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

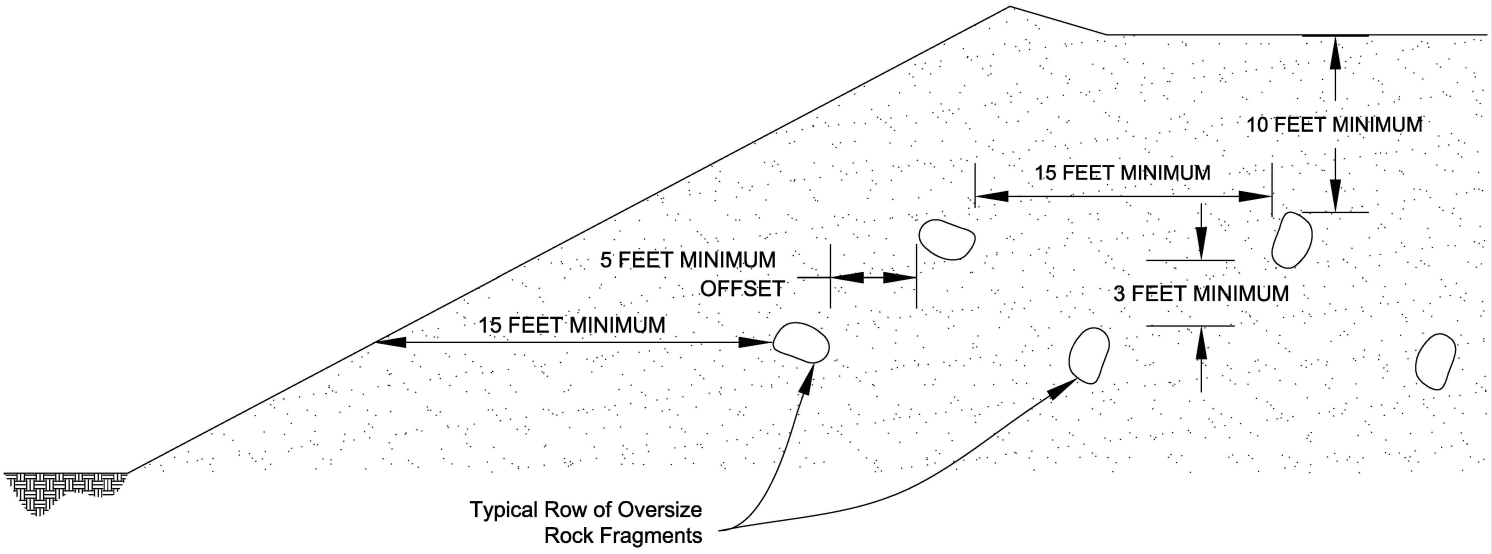
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

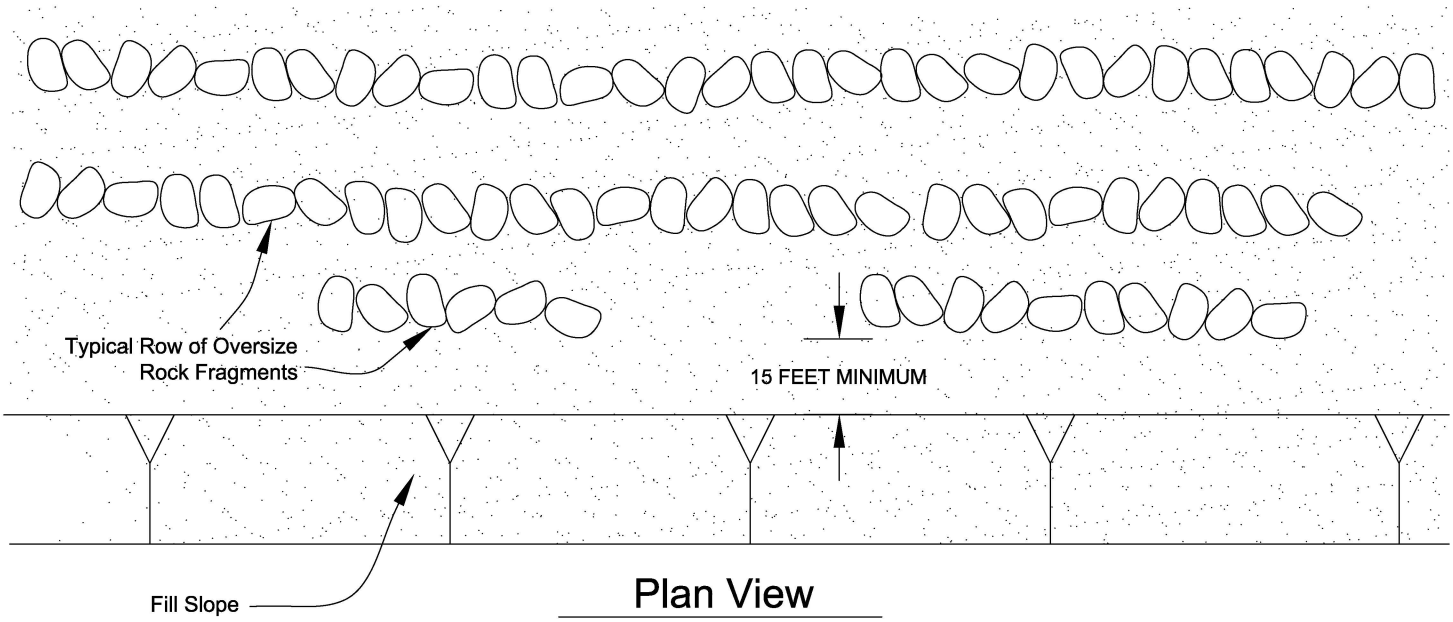
DRAWN: JAS
CHKD: GKM

PLATE D-7

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

SOUTHERN CALIFORNIA GEOTECHNICAL

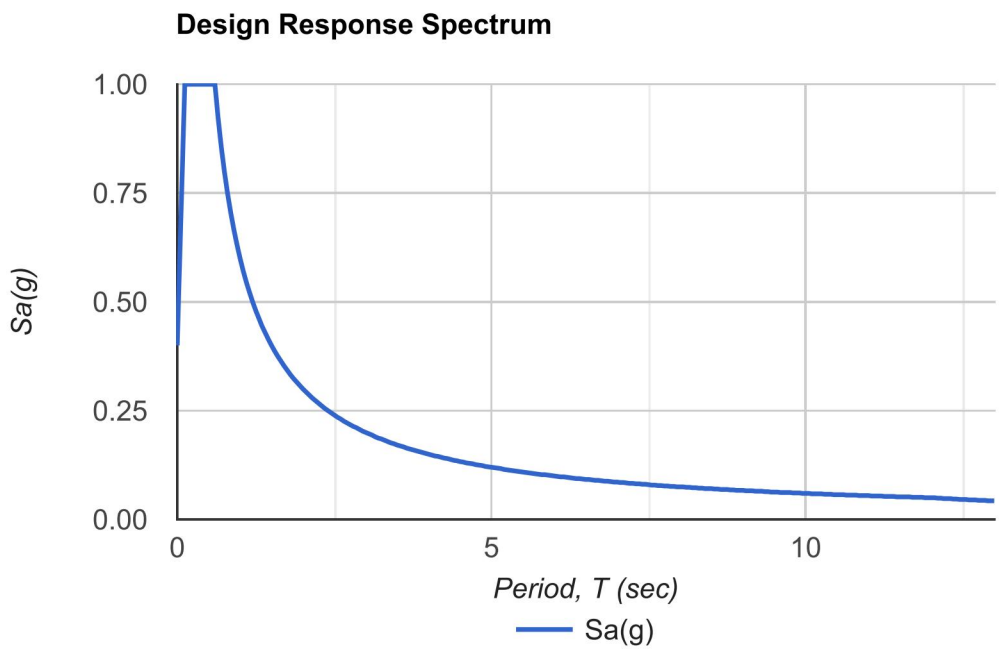
APPENDIX E

OSHPD

Latitude, Longitude: 34.093558, -117.615399

Date	3/13/2019, 9:47:34 AM
Design Code Reference Document	ASCE7-10
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description	Type	Value	Description
S_S	1.5	MCE_R ground motion. (for 0.2 second period)	SDC	D	Seismic design category
S_1	0.6	MCE_R ground motion. (for 1.0s period)	F_a	1	Site amplification factor at 0.2 second
S_{MS}	1.5	Site-modified spectral acceleration value	F_v	1.5	Site amplification factor at 1.0 second
S_{M1}	0.9	Site-modified spectral acceleration value	PGA	0.519	MCE_G peak ground acceleration
S_{DS}	1	Numeric seismic design value at 0.2 second SA	F_{PGA}	1	Site amplification factor at PGA
S_{D1}	0.6	Numeric seismic design value at 1.0 second SA	PGA_M	0.519	Site modified peak ground acceleration



SOURCE: SEAOC OSHPD Seismic Design Maps Tool
https://seismicmaps.org/

SEISMIC DESIGN PARAMETERS
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT
RANCHO CUCAMONGA, CALIFORNIA
DRAWN: AL CHKD: RGT
SCG PROJECT 19G121-1
PLATE E-1

SOUTHERN CALIFORNIA GEOTECHNICAL

Appendix F-2

Update to Geotechnical Report

May 28, 2021

Panattoni Development Company, Inc.
20411 SW Birch Street, Suite 200
Newport Beach, California 92660

Attention: Mr. Michael Sizemore
Development Manager

Proposal No.: **19G121-6**

Subject: **Geotechnical Report Update, Infiltration Report Update, and Response to City Review Comments**
Proposed Commercial/Industrial Development
East Side of Baker Avenue, South of 9th Street
Rancho Cucamonga, California

References: 1) Geotechnical Investigation, Proposed Commercial/Industrial Development, East Side of Baker Avenue, South of 9th Street, Rancho Cucamonga, California, prepared by Southern California Geotechnical, Inc. (SCG), prepared for Panattoni Development Company, Inc., SCG Project No. 19G121-1, dated April 5, 2019.

2) Results of Infiltration Testing, Proposed Commercial/Industrial Development, Baker Avenue, South of 9th Street, Rancho Cucamonga, California, prepared by SCG, prepared for Panattoni Development Company, Inc., SCG Project No. 19G121-2, dated April 5, 2019.

Dear Mr. Sizemore:

At your request, we have prepared this report to update the geotechnical and infiltration reports, following our review of the most recent conceptual grading and drainage plans for the proposed development at the site. We have also addressed Engineering-Level review comments prepared by the city of Rancho Cucamonga, following their review of the above-referenced reports. The scope of services for this report included preparing a response to the Engineering-Level Review comments and providing updated seismic design parameters and infiltration recommendations, as necessary.

This update report should be distributed to all consultants and contractors associated with this project, along with a copy of the original geotechnical investigation and infiltration report.

Response to Engineering-Level Comments

The Engineering-Level Comments prepared by the city of the Rancho Cucamonga (RC), are reproduced below, followed by our responses. A copy of the review sheet is enclosed with this correspondence for reference purposes.

RC 1: *The geotechnical evaluation includes soil borings and trenches to identify the*

subsurface alluvium, depth of artificial fill, and if groundwater was present within 25 feet below ground surface. Artificial fill and native alluvium samples were obtained and evaluated pursuant to the 2016 California Building Code. Based on the materials sampled and evaluated, Southern California Geotechnical determined foundation design, grading recommendations, and flatwork/roadwork design. The geotechnical approach used meets the duty of care for geotechnical evaluations for a project such as the one evaluated.

SCG: So noted.

RC 2: *The geotechnical evaluation follows the 2016 California Building. California updated its building code, and the current code is the 2019 California Building Code. The 2019 California Building Code was issued on July 1, 2019 and became effective on January 1, 2020.*

SCG: Updated seismic design parameters based on ASCE 7-16 have been provided in the subsequent *Geotechnical Report Update* section of this report.

RC 3: *The geotechnical evaluation is based on a preliminary building design. The actual plans for this project were not reviewed by Southern California Geotechnical. If the design plans differ from what was presented in the preliminary building plans evaluated by Southern California Geotechnical then the recommendations in the Geotechnical report may need to be revised.*

SCG: SCG has reviewed the most recent conceptual grading and drainage plans. Updated sections of the geotechnical and infiltration reports pertaining to this plan have been provided in the subsequent sections of this report.

RC 4: *The surface water infiltration testing report states that three chambers are to be installed on-site and used for percolation of rainwater. Southern California Geotechnical performed water infiltration testing at the base of six trenches excavated during the geotechnical evaluation. Their infiltration test method followed standard practice for infiltration testing. Based on the field data obtained, they estimate surface water percolation rates. No design plans are provided to show the dimensions of the rainwater capture, storage, and infiltration systems. Because no details specific to the rainwater capture and percolation system are provided, we are unable to provide comment on whether the rainwater percolation system is adequate in its design or capacity to properly capture and percolate expected rainwater flows.*

SCG: It is our understanding that the project civil engineer will submit updated plans addressing the requesting items.

Infiltration Report Update

Based on the currently proposed development, as indicated on the most recent conceptual grading and drainage plans, the proposed development is very similar to that proposed at the time of the original infiltration report. Therefore, the recommendations made at the time of the

original report generally remain valid. However, the conceptual grading plans indicate that a proposed underground infiltration system will be located south of the proposed Building 2. Infiltration testing was not performed in this area of the site. Therefore, the following updated infiltration recommendations provide additional recommendations related to the new proposed underground infiltration system.

Updated Infiltration Design Recommendations

Six (6) infiltration tests were performed at the subject site. As noted in the above referenced infiltration report, the infiltration rates at these locations vary from 5.7 to 20.2 inches per hour. The primary factors affecting the infiltration rates are the varying relative densities and the silt content of the encountered soils, which vary at different depths and locations at the subject site. Based on the results of Infiltration Test Nos. I-1 through I-6, we recommend infiltration rates as follows:

Infiltration Test	**Location**	**Infiltration Rate (Inches per Hour)**
I-1 and I-2	East of Proposed Building 3	7.6
I-3 and I-4	North of Proposed Building 1	13.0
I-5 and I-6	South of Proposed Building 1	5.7
None	South of Proposed Building 2	5.7

The proposed infiltration system located south of the proposed Building 2 was not a part of the proposed development at the time of our original infiltration report. The area south of the proposed Building 2 was not tested for infiltration characteristics. However, borings in the vicinity of this proposed infiltration system indicated that soils consisting of medium dense to very dense fine to coarse sands with trace amounts of silt and some fine to coarse gravel are present at a depth of 3± below the existing site grades, extending to the maximum depth explored of 15± feet. These soils are consistent with soils present at our infiltration test locations. Therefore, we recommend a conservative infiltration rate of 5.7 inches per hour for the proposed basin located south of the proposed Building 2. If infiltration rates specific to this area are required, SCG should be contacted to perform additional infiltration testing in this area.

We recommend that a representative from the geotechnical engineer be on-site during the construction of the proposed infiltration system to identify the soil classification at the base of the infiltration basin. It should be confirmed that the soils at the base of the proposed infiltration system corresponds with those presented in this report to ensure that the performance of the system will be consistent with the rates reported herein.

The design of the proposed storm water infiltration system should be performed by the project civil engineer, in accordance with the City of Rancho Cucamonga guidelines. However, it is recommended that the systems be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the system. The presence of such materials would decrease the effective infiltration rates. **It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rate recommended above is based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rate.** It should be noted that the recommended

infiltration rate is based on infiltration testing at six (6) discrete locations, and the overall infiltration rate of the storm water infiltration system could vary considerably.

Updated Infiltration Rate Considerations

The infiltration rates presented herein was determined in accordance with the city of Rancho Cucamonga guidelines and are considered valid only for the time and place of the actual test. Varying subsurface conditions will exist in other areas of the site, which could alter the recommended infiltration rates presented above. The infiltration rates will decline over time between maintenance cycles as silt or clay particles accumulate on the BMP surface. The infiltration rate is highly dependent upon a number of factors, including density, silt and clay content, grainsize distribution throughout the range of particle sizes, and particle shape. Small changes in these factors can cause large changes in the infiltration rates.

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the saturated zone. Once the soils become saturated, infiltration rates become zero, and water can only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. Changes in soil moisture content will affect the infiltration rate. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

Updated Construction Considerations

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Compaction of the soils at the bottom of the infiltration system can significantly reduce the infiltration ability of the basins. Therefore, the subgrade soils within proposed infiltration system areas should not be over-excavated, undercut or compacted in any significant manner. **It is recommended that a note to this effect be added to the project plans and/or specifications.**

We recommend that a representative from the geotechnical engineer be on-site during the construction of the proposed infiltration systems to identify the soil classification at the base of each system. It should be confirmed that the soils at the base of the proposed infiltration systems correspond with those presented in this report to ensure that the performance of the systems will be consistent with the rates reported herein.

We recommend that scrapers and other rubber-tired heavy equipment not be operated on the basin bottom, or at levels lower than 2 feet above the bottom of the system, particularly within basins. As such, the bottom 24 inches of the infiltration systems should be excavated with non-rubber-tired equipment, such as excavators.

Updated Location of Infiltration Systems

The use of on-site storm water infiltration systems carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration area could potentially be damaged due to saturation of the subgrade soils. **The proposed infiltration systems for this site should be located at least 25 feet away from any structures, including retaining walls.** Even with this provision of locating the infiltration system at least 25 feet from the building(s), it is possible that infiltrating water into the subsurface soils could have an adverse effect on the proposed or existing structures. It should also be noted that utility trenches which happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore, consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration system.

The infiltration system designer should also give special consideration to the effect that the proposed infiltration systems may have on nearby subterranean structures, open excavations, or descending slopes. In particular, infiltration systems should not be located near the crest of descending slopes, particularly where the slopes are comprised of granular soils. Such systems will require specialized design and analysis to evaluate the potential for slope instability, piping failures and other phenomena that typically apply to earthen dam design. This type of analysis is beyond the scope of this infiltration test report, but these factors should be considered by the infiltration system designer when locating the infiltration systems.

Geotechnical Report Update

As previously stated, based on the most recent conceptual grading and drainage plans, the proposed development is very similar to that proposed at the time of the original geotechnical investigation. Therefore, the recommendations presented in the referenced geotechnical report remain valid for the project. No further subsurface exploration is considered warranted from this project. The original geotechnical report is considered valid for the currently proposed development.

Additionally, the 2019 CBC was adopted since the time of the referenced geotechnical report. This document includes updated seismic design parameters as well as an updated liquefaction analysis with respect to the 2019 CBC.

Updated Seismic Design Parameters for 2019 CBC

The 2019 California Building Code (CBC) provides procedures for earthquake-resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2019 edition of the California Building Code (CBC), which was adopted on January 1, 2020.

The 2019 CBC Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool, a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-16, upon which the 2019 CBC is based. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The table below was created using data obtained from the application. The output generated from this program is included as Plate E-1 in this report.

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.4.8 applies to the proposed structure at this site. However, the structural engineer should verify that this exception is applicable to the proposed structure.** Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.500
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.600
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.500
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.020
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.000
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.680

It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the SEAOC/OSHPD Seismic Design Maps Tool output for the 2019 CBC. We calculated these parameters-based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of S_1 obtained from the Seismic Design Maps Tool, assuming that a site-specific ground motion hazards analysis is not required for the proposed building improvements at this site.

Closure

We sincerely appreciate the opportunity to be of continued service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Ricardo Frias, RCE 91772
Project Engineer

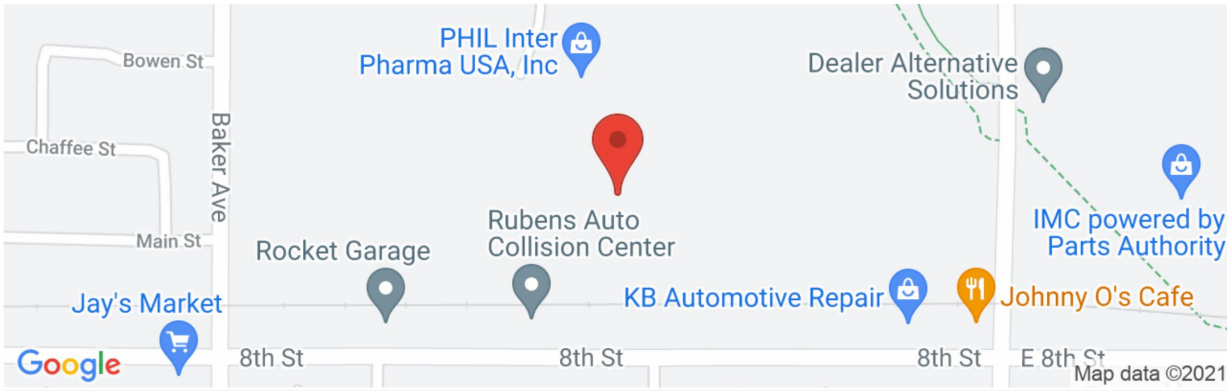
Robert G. Trazo, M.Sc., GE 2655
Principal Engineer

Enclosures: Plate E-1: Seismic Design Parameters – 2019 CBC
City of Rancho Cucamonga Engineering Review Sheet (2 sheets)

Distribution: (1) Addressee

OSHPD

Latitude, Longitude: 34.093558, -117.615399



Date	5/27/2021, 2:42:45 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.5	MCE_R ground motion. (for 0.2 second period)
S_1	0.6	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.5	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.529	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.582	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
SsRT	1.638	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.749	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.612	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.669	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.529	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.937	Mapped value of the risk coefficient at short periods
C_{R1}	0.914	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC OSHPD Seismic Design Maps Tool
https://seismicmaps.org/

SEISMIC DESIGN PARAMETERS - 2019 CBC

PROPOSED COMMERCIAL INDUSTRIAL DEVELOPMENT

RANCHO CUCAMONGA, CALIFORNIA

DRAWN: RF
CHKD: RGT

SCG PROJECT
19G121-6

PLATE E-1

SOUTHERN CALIFORNIA GEOTECHNICAL

Appendix G

Climate Action Plan Consistency Review Checklist

Climate Action Plan Consistency Review Checklist

The City of Rancho Cucamonga (City) adopted a Climate Action Plan (CAP) on December 15, 2021. The CAP outlines strategies and measures that the City will undertake to achieve its proportional share of State greenhouse gas (GHG) emissions reduction targets. The purpose of the CAP Consistency Checklist (Checklist), in conjunction with the CAP, is to provide a streamlined review process for new development projects that meet the definition of a "project" under the California Environmental Quality Act (CEQA).

Analysis of GHG emissions and potential climate change impacts from new development is required under CEQA. The City's CAP is a qualified GHG emissions reduction plan in accordance with State CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of a "qualified" CAP.

The City's CAP includes strategies and measures targeting new development, the existing built environment, and City government operations. Collectively, the set of measures would achieve the City's GHG reduction target for 2030 and make substantial progress toward the City's 2040 target. The City has prepared this Checklist to facilitate the implementation of GHG reduction strategies and measures from the CAP that apply to new development projects (the following section, "Applicability and Procedures," defines the projects that are required to complete this Checklist). In addition, projects that are consistent with the CAP's growth projections (which are based on the General Plan) and implement the applicable strategies and measures of this Checklist will demonstrate compliance with the CAP and its achievement of the City's 2030 reduction target.

Projects that comply with the CAP, as determined through completion of this Checklist, may rely on the CAP for the analysis of cumulative GHG emissions impacts as part of the CEQA process. Projects that do not comply with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the strategies and measures in this Checklist to the extent feasible. Cumulative GHG impacts would be significant for any project that does not comply with the CAP.

This Checklist may be updated periodically to incorporate new GHG reduction techniques or to comply with later amendments to the CAP, or changes in local, State, or federal law or regulation. Comprehensive updates to this Checklist will be coordinated with each CAP update. Administrative updates to the Checklist may occur regularly, as necessary for the purposes of keeping the Checklist up-to-date and clarifying its requirements. Periodic updates to the CAP approved by the City Council will also include updates to this Checklist to ensure consistent application of the included policies.

APPLICABILITY AND PROCEDURES

This Checklist is required for projects that are subject to CEQA.[1] General procedures for completing the Checklist are described below. Additional guidance is also provided under each of the questions in Steps 1 and 2 of the Checklist.

- The City's Planning Department reviews development applications and makes determinations regarding environmental review requirements under CEQA.
- The applicant must provide written documentation and supporting evidence that demonstrates how the project would implement each applicable Checklist requirement described herein to the satisfaction of the Planning Department.
- The "Project Information" section should include sufficient detail about the project to support the responses to the Checklist questions.
- Measures identified as applicable to the project in the Checklist shall be required as conditions of project approval.
- Each Checklist question describes the circumstances in which a response of not applicable (N/A) is appropriate.
- For each N/A response, written documentation and evidence supporting that response shall be provided to the satisfaction of the Planning Department.
- If an N/A response is provided for reasons other than those specifically provided in the Checklist, supporting documentation and/or evidence justifying the response shall be provided, subject to Planning Department approval. The Planning Department may conclude that a project is inconsistent with the CAP if it determines that one or more N/A responses is not supported by adequate documentation and/or evidence.
- A No response to a question in Step 2: CAP Measures Consistency would render a project inconsistent with the CAP.
- Projects required to complete this Checklist but that cannot demonstrate compliance with the CAP using this Checklist shall prepare a separate, project-level GHG analysis as part of the project's CEQA compliance.

[1] In this context, a project is any action that meets the definition of a "Project" in Section 15378 of the State CEQA Guidelines.

Project #_____

Application Information

Contact Information

Project No. and Name: 9th and Vineyard Warehouse Project

Property Address and APN: 0207-271-25, 0207-271-27, 0207-271-39, 0207-271-40, 0207-271-89, 0207-271-93, 0207-271-94, 0207-271-96, and 0207-271-97

Applicant Name and Co.: CP Logistics Vineyard, LLC

Contact Phone: 949-296-2989 Contact Email: _____

Was a consultant retained to complete this checklist? ☒ Yes ☐ No
If Yes, complete the following:

Consultant Name: Lucas Carneiro Contact Phone: 805-427-9525

Company Name: Rincon Consultants, Inc. Contact Email: lcarneiro@rinconconsultants.com

Project Information

1. What is the size of the project site (acres)? 45.96
2. Identify all applicable proposed land uses:
   - ☐ Residential (provide # of single-family dwelling units): _____
   - ☐ Residential (provide # of multi-family dwelling units): _____
   - ☒ Commercial (provide total square footage): 13,000 sf
   - ☒ Industrial (provide total square footage): 969,096 sf (Warehouse)
   - ☐ Other (describe): _____
3. Provide a description of the project. This description shall be consistent with the basic project description used for the CEQA document. The description may be attached to the Checklist if there are space constraints.

   See Draft EIR Section 2, Project Description; Section 4.8, Greenhouse Gas Emissions

Step 1: Land Use Consistency

Step 1 determines a project's consistency with the growth assumptions of the CAP (which are based on the General Plan) by evaluating its consistency with the adopted land use designation of the City's General Plan.

Step 1: Land Use Consistency		
Checklist Item (Check the appropriate box, explain your answer, and attach supporting documentation and/or evidence as needed)	**Yes**	**No**
1. Is the proposed project consistent with the City's adopted General Plan land use designation(s)? If **"Yes"**, proceed to Step 2. If **"No"**, proceed to Question 2 of Step 1	☒	☐
2. For projects not consistent with the adopted General Plan land use designation(s), does the project include a General Plan Amendment that would generate GHG emissions equal to or less than estimated emissions generated under the existing designation? If **"Yes"**, proceed to Step 2 and provide a comparison of estimated GHG emissions under both the adopted and the proposed designations. If **"No"**, the project's GHG impact is potentially significant, and the project's GHG emissions impacts must be analyzed in accordance with CEQA and the State CEQA Guidelines. The project is also required to complete Step 2 of the Checklist and implement the applicable measures. Other measures to reduce the project's GHG emissions may also be required as part of the project's CEQA compliance.	☐	☐

STEP 2: CAP MEASURES CONSISTENCY

The second step of CAP consistency review is to evaluate a project's consistency with the applicable strategies and measures of the CAP. Each Checklist item is associated with specific GHG reduction strategies and measures in the City's CAP.

Step 2: CAP Measures Consistency			
Checklist Item (Check the appropriate box, explain your answer, and attach supporting documentation and/or evidence as-needed)	**Yes**	**No**	**N/A**
1. Electric Vehicle Charging (Strategy 1.2) Will the project provide the following amount of "EV Ready"[1] and "EV Installed"[2] parking spaces? <u>Residential</u> ☐ *One- and two-family dwelling units and townhouses*: All off-street parking spaces would be "EV Installed". ☐ *Multifamily dwelling units*: ▪ 15% of parking spaces would be "EV Ready" or a minimum of 1 "EV Ready" space for 0-6 parking spaces, and ▪ 5% of spaces would be "EV Installed" or a minimum of 1 "EV Installed" space for 0-20 parking spaces. <u>Non-Residential</u> ☒ *Office and Industrial*: ▪ 10% of parking spaces would be "EV Ready" or a minimum of 1 "EV Ready" space for 0-9 parking spaces, and ▪ 5% of parking spaces would be "EV Installed" or a minimum of 1 "EV Installed" space for 0-20 parking spaces. Note: Calculations for required number of EV spaces shall be rounded up to nearest whole number. Check "N/A" if the project does not include the land uses listed above or would not provide any on- or off-street parking spaces. <u>Definitions</u> [1] "EV Ready" = pre-wired with dedicated 208/240 branch circuit installed in wall that originates at electrical service panel or sub-panel with a 40-ampere minimum overcurrent protection device and terminates into a cabinet, box, or enclosure, in a manner approved by the building official. [2] "EV Installed" = EV Ready plus installation of Level 2 electric vehicle supply equipment (EV charger).	☒	☐	☐

Please substantiate how the project satisfies question 1:

Consistent with Implementation of Mitigation. The project would include three Van Accessible EV spaces, two EV Standard Accessible spaces, 55 EV Standard spaces, and 13 EV Standard Charging spaces for a total of 60 EV Ready spaces and 13 EV Installed spaces out of 362 total parking spaces. The 13 EV Installed spaces would represent 3.6 percent of all parking spaces, and would not achieve the 5 percent minimum required by this strategy. Upon implementation of EIR Mitigation Measure GHG-1, the applicant would ensure that a minimum of 5 percent of parking spaces would be "EV Installed" or a minimum of one "EV Installed" space for 0-20 parking spaces.

Step 2: CAP Measures Consistency			
Checklist Item (Check the appropriate box, explain your answer, and attach supporting documentation and/or evidence as-needed)	**Yes**	**No**	**N/A**
2. Off-Road Equipment (Strategy 1.4) Commercial and Industrial: For heavy-duty off-road vehicles and equipment (defined as equal to or greater than 50 horsepower) use associated with project operations, will the project use zero emissions technology (e.g., electricity) or zero emissions fuels (e.g., renewable diesel, hydrogen, biomethane)? Check "N/A" if zero emission equipment and/or fuel options are not commercially available for the project's heavy-duty off-road equipment needs. To support a "N/A" response, the applicant shall demonstrate that a minimum of three off-road equipment fleet owners/operators/fuel providers in San Bernardino County or adjacent counties were contacted and responded that zero emission equipment and/or fuel options are not commercially available for the project's heavy-duty off-road equipment needs. Check "N/A" if the project does not include a commercial or industrial use.	☒	☐	☐

Please substantiate how the project satisfies question 2:

Consistent with Implementation of Mitigation. It is anticipated that project operation would include heavy-duty off-road equipment such as forklifts and yard hoppers. Upon implementation of EIR Mitigation Measure GHG-1, the applicant would be required to use zero emissions technology or zero emissions fuels (e.g., renewable diesel, hydrogen, biomethane).

3. Construction Vehicles and Equipment (Strategy 1.6) For heavy-duty vehicles and equipment (defined as equal to or greater than 50 horsepower) used in construction of the project, will a minimum of 50% of vehicles and pieces of equipment be powered by electricity or other zero emissions technology or fuels? Check "N/A" if zero emission equipment and/or fuel options are not commercially available for the project's heavy-duty off-road equipment needs. To support a "N/A" response, the applicant shall demonstrate that a minimum of three off-road equipment fleet owners/operators/fuel providers in the San Bernardino County or adjacent counties were contacted and responded that zero emission equipment and/or fuel options are not commercially available for the project's heavy-duty off-road equipment needs. Check "N/A" if the project does not require the use of heavy-duty construction equipment.	☒	☐	☐

Please substantiate how the project satisfies question 3:

Consistent with Implementation of Mitigation. Project construction would require heavy-duty vehicles and equipment. Upon implementation of Mitigation Measure GHG-1, the applicant would use electric or other zero emissions technologies or fuels for a minimum of 50 percent of vehicles and pieces of equipment used.

*However, if zero emission equipment and/or fuel options are not commercially available for the project's heavy-duty off-road equipment needs, the applicant shall demonstrate that a minimum of three off-road equipment fleet owners/operators/fuel providers in the San Bernardino County or adjacent counties were contacted and responded that zero emission equipment and/or fuel options are not commercially available for the project's heavy-duty off-road equipment needs.

Step 2: CAP Measures Consistency			
Checklist Item (Check the appropriate box, explain your answer, and attach supporting documentation and/or evidence as-needed)	**Yes**	**No**	**N/A**
4. Zero Net Electricity (Strategy 3.1 and 3.2) Residential and Non-Residential (except for projects located in the Neo-Industrial (NI) and Industrial Employment (IE) zoning districts): Will the project include an on-site renewable energy generation system that generates an amount of electricity equal to annualized building demand? Check "N/A" if the project is located in the Neo-Industrial (NI) and Industrial Employment (IE) zoning districts and refer to question 5.	☐	☐	☒

Please substantiate how the project satisfies question 4:

The project is located in the Neo-Industrial zoning district. Therefore, this checklist item is not applicable to the project.

5. On-Site Renewable Energy Systems for Projects in the Neo-Industrial and Industrial Employment Districts (Strategy 3.3) Neo-Industrial (NI) and Industrial Employment (IE) zoning districts: Will the project comply with Development Code Section 17.76.020, Development Criteria for Solar Systems, Subsection B., regarding on-site renewable energy systems? Check "N/A" if the project is not within the NI or IE zoning districts, or if located in an NI or IE zoning district, the project would not include construction of a new building.	☒	☐	☐

Please substantiate how the project satisfies question 5:

Consistent. The proposed project would comply with Development Code Section 17.76.020(B), Development Criteria for Solar Systems, regarding on-site renewable energy systems. Additionally, the proposed project would achieve LEED-certified designation.

Step 2: CAP Measures Consistency			
Checklist Item (Check the appropriate box, explain your answer, and attach supporting documentation and/or evidence as-needed)	**Yes**	**No**	**N/A**
6. Transportation Demand Management (Strategy 12.1) Multi-Family Residential and Non-Residential: will the project include all of the following strategies? ☐ Provide pedestrian connections between all internal uses and to all existing or planned external streets that abut the project site; close any gaps in existing pedestrian network along internal streets or external streets that abut the site. ☐ Provide end-of-trip bicycle facilities including secure, weather-protected storage; bike parking; shower facilities; changing rooms; personal lockers. ☐ Provide traffic calming measures, such as: designated areas where vehicles are prohibited; marked pedestrian crossings; curb extensions, speed tables, raised crosswalks/intersections, median islands, tight corner radii, roundabouts or mini traffic circles, planter strips with shade trees, chicanes. ☐ Provide designated car-share, carpool, vanpool, and/or park-and-ride parking spaces.[2] ☐ Do not exceed the minimum code requirement for parking capacity. And include at least one of the following strategies? ☒ For Non-Residential projects, provide employees with financial incentives for commuting to work by modes other than driving alone, such as public transit, carpool/vanpool, walk/bike, or teleworking. ☐ For Multi-Family Residential projects, provide financial subsidies for using travel modes other than driving alone, such as free or discounted transit passes or other shared mobility services (e.g., bike- or scooter share; car-sharing programs) ☐ For Multi-Family Residential projects, require tenants/owners to purchase/rent vehicle parking separate from the cost to purchase/rent a residential unit ☐ Implement a car-sharing program (for residents and/or employees) Check "N/A" if the project is a single-family residential project.	☒	☐	☐

Please substantiate how the project satisfies question 6:

Consistent. The project would include pedestrian connections between all internal uses and existing streets. The project would provide 18 bicycle parking spaces (5 percent of required vehicle parking) pursuant to RCMC Section 17.64.110(B) and be consistent with all applicable Development Code and TDM requirements. Carpool and vanpool would be provided, and minimum code requirements for parking capacity would be met.

[2] The designated number of car-share, carpool, vanpool, and/or park-and-ride parking spaces shall be provided at a rate equal to or greater than CALGreen minimum requirements.

Step 2: CAP Measures Consistency			
Checklist Item (Check the appropriate box, explain your answer, and attach supporting documentation and/or evidence as-needed)	**Yes**	**No**	**N/A**
7. Bike Lanes (Strategy 11.2) Will the project implement bike lane improvements on the City's roadway network consistent with the General Plan or other City plans or requirements? Check "N/A" if the project is not required to implement any bike lane improvements or if required improvements are already in place.	☐	☐	☒

Please substantiate how the project satisfies question 7:

There is no applicable requirement for the proposed project to implement bike lane improvements on the City's roadway network.

8. Traffic Signal Timing (Strategy 13.1) Will the project implement traffic signal timing improvements on key commute corridor on the City's roadway network consistent with the General Plan or other City plans or requirements? Check "N/A" if the project is not required to implement any traffic signal timing improvements or if required improvements are already in place.	☐	☐	☐

Please substantiate how the project satisfies question 8:

Not Applicable. The project consists of a warehouse facility and would not be required to implement any signal timing improvements.

Appendix H-1

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

9th Street & Vineyard Avenue Assemblage
Rancho Cucamonga, California 91730

June 14, 2019

AVOCET
ENVIRONMENTAL, INC.

PHASE I ENVIRONMENTAL SITE ASSESSMENT

9th Street & Vineyard Avenue Assemblage
Rancho Cucamonga, California 91730

June 14, 2019

PREPARED FOR

Panattoni Development Company, Inc.
7887 East Belleview Avenue, Suite 475
Denver, Colorado 80111

PREPARED BY

Avocet Environmental, Inc.
1 Technology Drive, Suite C515
Irvine, California 92618-2327

Project No. 1592.001

AVOCET ENVIRONMENTAL, INC.

June 14, 2019 Project No. 1592.001

Mr. Guillermo Accame
Director of Risk Management
PANATTONI DEVELOPMENT COMPANY, INC.
7887 East Belleview Avenue, Suite 475
Denver, Colorado 80111

Phase I Environmental Site Assessment
9th Street & Vineyard Avenue Assemblage
Rancho Cucamonga, California 91730

Dear Mr. Accame:

This report documents a Phase I Environmental Site Assessment for an assemblage of nine parcels, totaling approximately 47.48 acres, in the block bounded by East 9th Street to the north, railroad tracks and east 8th Street to the south, Vineyard Avenue to the east, and Baker Avenue to the west, in Rancho Cucamonga, California (the site). If you have any questions about the report or require additional information, please do not hesitate to contact the undersigned at (949) 296-0977 Ext. 102 or at pmiller@avocetenv.com. As always, Avocet Environmental, Inc. appreciates the opportunity to be of service to Panattoni Development Company, Inc.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Philip Miller, P.E.
Principal

PM:sh
Enclosure

P:\1592 Panattoni-9th and Vineyard RC\001 Phase I ESA\Report-filed\SupportingDocs\9th+Vineyard_Rancho Cucamonga_Phase I ESA_2019-06-14.Rev 01.docx

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LIST OF ABBREVIATIONS AND ACRONYMS

ACM	asbestos-containing material
APN	Assessor's Parcel Number
AST	aboveground storage tank
ASTM	ASTM International
AUL	activity and use limitation
bgs	below ground surface
CalEPA	California Environmental Protection Agency
CDPH	California Department of Public Health
CREC	Controlled Recognized Environmental Condition
DOGGR	California Division of Oil, Gas, and Geothermal Resources
DTSC	California Department of Toxic Substances Control
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	environmental site assessment
GTI	Groundwater Technology, Inc.
HREC	Historical Recognized Environmental Condition
HWTS	Hazardous Waste Tracking System
LBP	lead-based paint and coatings
MEK	methyl ethyl ketone
MIBK	methyl isobutyl ketone
NFA	no further action
NPDES	National Pollution Discharge Elimination System
OEF	other environmental feature
pCi/L	picocuries per liter
POLs	petroleum, oils, and lubricants
REC	Recognized Environmental Condition
RL	Reporting Limit
SBCoDEHS	San Bernardino County Department of Environmental Health Services
SBCoFD	San Bernardino County Fire Department
TPH	total petroleum hydrocarbons
TPH-g	TPH as gasoline
USGS	U.S. Geological Survey
UST	underground storage tank
VEC	vapor encroachment condition
VIC	vapor intrusion condition
VOC	volatile organic compound

EXECUTIVE SUMMARY

Avocet Environmental, Inc. (Avocet) has conducted a Phase I environmental site assessment (ESA) for an assemblage of nine parcels of land, totaling approximately 47.48 acres[1], on the southwest corner of 9th Street and Vineyard Avenue in Rancho Cucamonga, California (the site). The Phase I ESA was conducted in general accordance with the requirements and limitations of ASTM International (ASTM) Standard E1527-13. Avocet conducted the Phase I ESA on behalf Panattoni Development Company, Inc. (Panattoni), one of whose affiliates may acquire and develop the site with warehouse-type commercial buildings. The primary objective of the Phase I ESA is to evaluate the history and current condition of the site in the context of the use, storage, handling, and disposal of potentially hazardous substances that could have adversely impacted the underlying vadose zone and/or groundwater. Based on the site's history and current condition, "Recognized Environmental Conditions" (RECs), "Controlled RECs" (CRECs), and "Historical RECs" (HRECs), as defined in ASTM Standard E1527-13 (ASTM, 2013), and "other environmental features" (OEFs) have been identified. For Phase I ESA purposes, OEFs are defined as conditions that do not meet the ASTM definition of a REC, CREC, or HREC but which Avocet believes warrant mention for visibility purposes in the context of acquiring and/or redeveloping the site. The site location is shown in Figure 1 and an aerial photograph of the site and vicinity is presented in Figure 2. A larger scale aerial photograph of the site is presented in Figure 3.

OVERVIEW

The site is located in Rancho Cucamonga, San Bernardino County, approximately 2 miles north of Ontario International Airport, 1.5 miles north of the San Bernardino Freeway, and 4 miles west of the Ontario (15) Freeway. As noted above, the site is an assemblage of nine contiguous parcels; some developed and occupied, others unimproved, as follows:

Assessor's Parcel Number (APN)	Acres	Street Address	Notes
0207-271-25	12.66	8855 Baker Avenue	Partially developed (Ecoplast Warehouse)
0207-271-27	8.28	8729 East 9th Street	Partially developed (KSPA Radio Station)
0207-271-39	0.21	8817 Baker Avenue	Vacant, formerly residential
0207-271-40	0.53	8803 Baker Avenue	Abandoned home
0207-271-89	5.42	8769 Baker Avenue	Undeveloped, featured home in past
0207-271-93	11.28	8830 Vineyard Avenue	Scheu Steel Supply Company
0207-271-94	2.46	8847 East 9th Street	Merchant Landscape Services
0207-271-96	5.33	8810 Vineyard Avenue	Merchant Landscape Services/formerly residential
0207-271-97	1.31	8705 & 8725 East 9th Street	Vacant, formerly residential
Total	**47.48**		

[1] The acreages and measurements provided in this report are approximate only and have not been independently verified by Avocet unless specifically indicated otherwise.

The available records indicate that the site was used for agriculture from at least as far back as 1938, at which time it featured three small agricultural holdings, each of which appears to have featured a residence and detached support structures. A majority of the site was planted with trees, which, based on the area's history, are assumed to have been citrus trees. Additional residences and a few small commercial/industrial structures had been added by 1949: a welding shop that has since been demolished, and the existing building in the northeast corner of the site, at 8847 East 9th Street, currently occupied by Merchant Landscape Services. By 1959, the assumed citrus tree orchards had been cleared, the existing radio station and three of the four associated radio masts had been constructed at 8729 East 9th Street, and the existing Scheu Steel Supply building had been constructed in the southeast corner of the site, at 8830 Vineyard Avenue. The Scheu Steel building was later extended to the west and a fourth radio mast was added south of the radio station. By 1975, the former Patrini Shoes building had been constructed inside the southern site boundary, at 8855 Baker Avenue. The Patrini Shoe building was later extended to the east. In or around 2016, all but one of the residential structures at the site was removed, as was the former welding shop. Avocet understands that the remaining residential structure at 8803 Baker Avenue, although in advanced disrepair, may be a historical structure, which could impose additional requirements related to, or preclude, its demolition.

The history of the site and the storage and use of hazardous substances is described later in this report but, in brief, Patrini Shoes and Scheu Steel between them operated a total of nine underground storage tanks (USTs) at the site. Patrini Shoes operated seven 2,000-gallon USTs, six for methyl ethyl ketone (MEK) and one for methyl isobutyl ketone (MIBK). Scheu Steel operated two USTs, a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline. The Patrini Shoes and Scheu Steel USTs were all permanently closed by removal in the 1990s and related confirmation soil samples did not indicate releases had occurred. Avocet has not been able to locate any formal UST closure documentation, but none of the involved regulatory agencies appear to have requested additional investigation or any other follow-up action. Avocet notes, however, that the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of fuel oxygenates in soil and the possible presence of fuel hydrocarbons and other volatile organic compounds (VOCs) in soil vapor were not addressed. Other, more general environmental conditions and/or features at the site include the possible use of pesticides during its agricultural history and the documented storage and use of pesticides and herbicides by Merchant Landscape. In addition, both Merchant Landscape and Scheu Steel operate and maintain equipment at the site involving petroleum, oils, and lubricants (POLs). Stains on the concrete floor inside the Merchant Landscape and Scheu Steel buildings suggest that periodic, *de minimis* surface spills have occurred; however, there are no indications of larger or more significant spills and no stains were observed on the unpaved, exterior surfaces.

SITE SETTING

Selected information pertaining to the site's physical and hydrogeological setting is as follows:

- The site is located in the Chino Subbasin, a south-trending alluvial groundwater basin within the upper Santa Ana River drainage area. The primary aquifer

beneath the site is comprised of two distinct units. The "Upper Package" consists primarily of sands and gravels and extends to a depth of approximately 550 feet below ground surface (bgs). The "Lower Package" is a deeper sequence of sands and clayey sediments. The units are separated by an aquitard, which ranges in thickness between 30 and 50 feet. The depth to groundwater in monitoring wells near the site is typically around 250 feet bgs.

- There are several, well-documented contaminant plumes in Chino Subbasin groundwater; however, the subject site does not appear to overlie any of them. Based on a search of government databases and a review of records available online through the GeoTracker and EnviroStor websites, there are no records of unauthorized hazardous substance releases within or near the subject site boundary.

- A majority of the site originally was planted with trees, assumed to have been citrus trees, and the southeastern part of the site was later replanted with what may have been grape vines. Although there are no records of pesticide application at the subject site, the period during which the site has been used for agriculture coincides with the widespread use of pesticides in the United States.

- California Department of Conservation, Division of Oil, Gas, and Geothermal Resources records available online show that the site is not located within or near the administrative boundary of an oil or gas field and the nearest "wildcat" or "prospect" wells are located too far away to have impacted the subject site.

- Naturally occurring radon levels in the site vicinity are expected to be very low and within regulatory agency criteria.

RECOGNIZED ENVIRONMENTAL CONDITIONS (RECS)

ASTM (2013) defines RECs as:

> *". . . the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."*

Based on the subject Phase I ESA, Avocet has not identified any RECs at the site.

CONTROLLED RECS (CRECS)

ASTM (2013) defines CRECs as:

> *" resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for*

> *example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."*

Based on the subject Phase I ESA, Avocet has not identified any CRECs at the subject site.

HISTORICAL RECS (HRECS)

ASTM (2013) defines HRECs 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."*

Based on the subject Phase I ESA, Avocet has identified two HRECs at the site, as follows:

- **HREC 1 – Patrini Shoes Former USTs.** Based on the limited information available, Patrini Shoes operated seven 2,000-gallon USTs, six for MEK and one for MIBK, at 8855 Baker Avenue from 1980 through February 1990, at which time they were permanently closed by removal with oversight from San Bernardino County Fire Department (SBCoFD). The USTs appeared intact upon removal and none of the 14 confirmation soil samples, 2 from beneath each UST, contained detectable concentrations of MEK, MIBK, or any other VOCs, although the Reporting Limits (RLs) were somewhat elevated. Although the results of the confirmation soil sample analyses were submitted to San Bernardino County Department of Environmental Health Services (SBCoDEHS), it does not appear that a "no further action" (NFA) letter was ever issued, although such letters were not always issued unless requested. As SBCoDEHS did not request any additional investigation, Avocet considers the former Patrini Shoes USTs an HREC rather than a REC; however, Avocet notes that the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of VOCs in soil vapor was not addressed.

- **HREC 2 – Scheu Steel Former USTs.** Based on the limited information available, Scheu Steel operated two USTs at 8830 Vineyard Avenue, a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline. It is not known when the USTs were installed but they were permanently closed by removal, with oversight from SBCoFD, on April 27, 1990. Two confirmation soil samples from beneath the diesel UST were analyzed for total petroleum hydrocarbons (TPH) but none was detected. One confirmation soil sample from

beneath the gasoline UST was analyzed for TPH as gasoline (TPH-g) and lead but none was detected. The confirmation soil sample from beneath the gasoline UST was also to have been analyzed for aromatic VOCs; however, Avocet has not been able to locate the results. As with the Patrini Shoes USTs, it does not appear that an NFA letter was ever issued for the two Scheu Steel USTs, but as SBCoDEHS did not request any additional investigation, Avocet considers them an HREC rather than a REC. Also as with the Patrini Shoes USTs, the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of fuel oxygenates in soil and fuel oxygenates and other fuel hydrocarbons in soil vapor were not addressed.

OTHER ENVIRONMENTAL FEATURES (OEFS)

OEFs are environmental conditions that do not meet the definition of a REC, CREC, or HREC but which warrant mention in the context of acquiring and redeveloping the site or a portion thereof. OEFs do not necessarily require any action to address their presence or condition but are identified for the sake of thoroughness and completeness. Based on the subject Phase I ESA, Avocet identified seven OEFs (sequentially numbered after the HRECs) at the site, as follows:

- **OEF 3 - Past Agricultural Land Use.** The site was used for agriculture from at least as far back as 1938 through the 1980s. Specifically, a majority of the site originally was planted with trees, assumed to have been citrus trees, and the southeastern part of the site was later replanted with what may have been grape vines. Pesticides were widely used throughout the United States for much of this agricultural period; however, historical aerial photographs of the site do not show any aboveground storage tanks (ASTs) that might have been used to store or mix pesticides onsite, nor do they show distressed vegetation such as might have resulted from pesticide overuse. If pesticides were used at the site and applied in accordance with the manufacturers' recommendations, they should not have significantly impacted near-surface soil in terms of the ongoing presence of residual pesticides and/or related degradation byproducts. Nevertheless, the possible presence of residual pesticides, including arsenic, in near-surface soil at the site is considered an OEF.

- **OEF 4 – Stockpiled Asphalt Grindings.** An estimated 750 cubic yards of asphalt grindings, reportedly from nearby roadwork, is stockpiled on the western portion of the Scheu Steel property at 8830 Vineyard Avenue. Scheu Steel reportedly uses the material on an as-needed basis to repair erosion damage and for dust suppression. Although Scheu Steel reportedly had a sample of the material analyzed to make sure it was not contaminated, it was unable to provide the results of the analyses or document the origin of the materials. Avocet notes that asphalt contains oil (TPH) and related organic compounds but would not normally be considered a hazardous waste. If it had to be transported offsite, for example because of unsuitable geotechnical properties, the stockpiled material would have to be properly characterized for waste profiling purposes.

- **OEF 5 – Green Waste.** Merchant Landscape currently stages green waste, including tree stumps, mulch, and trimmings from various offsite locations, on approximately 1.5 acres of the northern portion of its property at 8810 Vineyard Avenue. Trash and other debris are also scattered within the green waste piles. For geotechnical reasons, the green waste and embedded debris cannot be reused onsite and should be removed, preferably by Merchant Landscape, and either disposed or recycled offsite.

- **OEF 6 – POL and Pesticide Storage and Use, 8847 East 9th Street.** Merchant Landscape stores and uses POLs in its operations at 8847 East 9th Street and also stores and dispenses pesticides and herbicides. Merchant Landscape does not provide secondary containment for the stored materials, and stains on the concrete floor inside the building suggest that periodic, *de minimis* surface spills have occurred. There are no indications of larger or more significant spills and no stains were observed on the unpaved, exterior surfaces.

- **OEF 7 – POL Storage and Use, 8830 Vineyard Avenue.** Scheu Steel uses POLs, including cutting and hydraulic fluid, in its metal working operations at 8830 Vineyard Avenue. Staining on the concrete floor inside the main fabrication building suggests that periodic, *de minimis* surface spills have occurred. There are no indications of larger or more significant spills and no stains were observed on the unpaved, exterior surfaces.

- **OEF 8 – ACMs and LBP.** Most of the buildings at the site that predate the restrictions on using asbestos-containing materials (ACMs) and lead-based paint (LBP) in construction have already been demolished and the associated debris removed. However, the single-family home at 8803 Baker Avenue, the radio station building at 8729 East 9th Street, the Merchant Landscape building at 8847 East 9th Street, the Ecoplast warehouse at 8855 Baker Avenue, and the Scheu Steel building at 8830 Vineyard Avenue all predate these restrictions and are still present. Avocet personnel did not observe any obvious hazardous conditions, such as damaged and friable ACMs, in these buildings but recommends pre-demolition surveys and, if necessary, abatement for ACMs and other potentially hazardous building materials prior to general building demolition. It may also be prudent to sample some of the debris scattered throughout the site, particularly the short lengths of concrete pipe, for asbestos.

- **OEF 9 – Possible Historic Structure.** Avocet understands that the remaining residential structure at 8803 Baker Avenue, although in advanced disrepair, may be a historical structure, which could impose additional requirements related to, or preclude, its demolition.

VAPOR INTRUSION/VAPOR ENCROACHMENT

As part of the Phase I ESA, Avocet evaluated the potential presence of vapor intrusion conditions (VICs) and/or vapor encroachment conditions (VECs) at the subject site. A VIC can occur if VOCs are present in the vadose zone or in groundwater beneath a property at concentrations such that vapor could intrude into, and accumulate in, an overlying structure at concentrations hazardous to human health. Significant quantities of VOCs, specifically MEK and MIBK, were stored in USTs and used by Patrini Shoes, and Scheu Steel also stored and dispensed significant quantities of motor vehicle fuels. Although soil around the former Patrini Shoes and Scheu Steel USTs does not appear to have been impacted, the possible presence of VOCs in soil vapor was not addressed.

A VEC can occur if VOCs from an offsite source migrate beneath a property. Based on available information, none of the regional groundwater plumes in the vicinity underlie the subject site, nor are there any nearby sites with documented VOC releases that are likely to have impacted the subject site. As such, it appears unlikely a VEC exists at the subject site.

RECOMMENDATIONS

Based on the above, Avocet recommends a focused Phase II investigation at the site to address:

- The possible presence of residual pesticides, including arsenic, in near-surface soil at the site. This site-wide assessment should be conducted in accordance with current guidance from the California Department of Toxic Substances Control.

- The possible presence of VOCs in soil and soil vapor in the vicinity of the former Patrini Shoes USTs at 8855 Baker Avenue. To address current UST closure requirements, this assessment should include the collection and analysis of soil matrix samples from depths up to 40 feet bgs and the installation and sampling of nested soil vapor probes.

- The possible presence of fuel hydrocarbons, including fuel oxygenates and related VOCs in soil and soil vapor in the vicinity of the former Scheu Steel USTs at 8830 Vineyard Avenue. To address current UST closure requirements, this assessment should include the collection and analysis of soil matrix samples from depths up to 40 feet bgs and the installation and sampling of nested soil vapor probes.

- The possible presence of POLs and/or pesticides in near-surface soil in the vicinity of the apparently *de minimis* spills, as indicated by stains on the concrete floors, at the Merchant Landscape and Scheu Steel facilities.

1.0 INTRODUCTION

This report documents a Phase I environmental site assessment (ESA) for an assemblage of nine parcels, totaling approximately 47.48 acres[1], in the block bounded by East 9th Street to the north, railroad tracks and East 8th Street to the south, Vineyard Avenue to the east, and Baker Avenue to the west, in Rancho Cucamonga, California (the site). Avocet conducted the Phase I ESA on behalf Panattoni Development Company, Inc. (Panattoni), one of whose affiliates may acquire and develop the site with warehouse-type commercial buildings. Avocet conducted the Phase I ESA in general accordance with the requirements and limitations of ASTM International (ASTM) Standard E1527-13. The site location is shown in Figure 1 and an aerial photograph of the site and vicinity is presented in Figure 2. A larger-scale aerial photograph of the site is presented in Figure 3.

1.1 OVERVIEW

The site is located in Rancho Cucamonga, San Bernardino County, approximately 2 miles north of Ontario International Airport, 1.5 miles north of the San Bernardino Freeway, and 4 miles west of the Ontario (15) Freeway. As noted above, the site is an assemblage of nine contiguous parcels; some developed and occupied, others unimproved, as follows:

Assessor's Parcel Number (APN)	Acres	Street Address	Notes
0207-271-25	12.66	8855 Baker Avenue	Partially developed (Ecoplast Warehouse)
0207-271-27	8.28	8729 East 9th Street	Partially developed (KSPA Radio Station)
0207-271-39	0.21	8817 Baker Avenue	Vacant, formerly residential
0207-271-40	0.53	8803 Baker Avenue	Abandoned home
0207-271-89	5.42	8769 Baker Avenue	Undeveloped, featured home in past
0207-271-93	11.28	8830 Vineyard Avenue	Scheu Steel Supply Company
0207-271-94	2.46	8847 East 9th Street	Merchant Landscape Services
0207-271-96	5.33	8810 Vineyard Avenue	Merchant Landscape Services/formerly residential
0207-271-97	1.31	8705 & 8725 East 9th Street	Vacant, formerly residential
Total	**47.48**		

The available records indicate that the site was used for agriculture from at least as far back as 1938, at which time it featured three small agricultural holdings, each of which appears to have featured a residence and detached support structures. A majority of the site was planted with trees, which, based on the area's history, are assumed to have been citrus trees. Additional residences and a few small commercial/industrial structures had been added by 1949: a welding shop that has since been demolished and the existing building in the northeast corner of the site, at 8847 East 9th Street, currently occupied by Merchant Landscape Services. By 1959, the assumed citrus tree orchards had been cleared, the existing radio station and three of the four associated radio masts had been constructed at 8729 East 9th Street, and the existing Scheu Steel

[1] The acreages and measurements provided in this report are approximate only and have not been independently verified by Avocet unless specifically indicated otherwise.

Supply (Scheu Steel) building had been constructed in the southeast corner of the site, at 8830 Vineyard Avenue. The Scheu Steel building was later extended to the west and a fourth radio mast was added south of the radio station. By 1975, the former Patrini Shoes building had been constructed inside the southern site boundary, at 8855 Baker Avenue. The Patrini Shoe building was later extended to the east. In or around 2016, all but one of the residential structures at the site was removed, as was the former welding shop. Avocet understands that the remaining residential structure at 8803 Baker Avenue, although in advanced disrepair, may be a historic structure, which could impose additional requirements related to, or preclude, its demolition.

The history of the site and the storage and use of hazardous substances is described later in this report, but, in brief, Patrini Shoes and Scheu Steel both operated underground storage tanks (USTs) at the site. The former operated seven 2,000-gallon USTs, six for methyl ethyl ketone (MEK) and one for methyl isobutyl ketone (MIBK). Scheu Steel operated two USTs, a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline. The Patrini Shoes and Scheu Steel USTs were all permanently closed by removal in the 1990s and related confirmation soil samples did not indicate that releases had occurred. Avocet has not been able to locate any formal UST closure documentation, but none of the involved regulatory agencies appear to have requested additional investigation or any other follow-up action. Avocet notes, however, that the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of fuel oxygenates in soil and the possible presence of fuel hydrocarbons and other volatile organic compounds (VOCs) in soil vapor were not addressed. Other, more general environmental conditions and/or features at the site include the possible use of pesticides during its agricultural history and the documented storage and use of pesticides and herbicides by Merchant Landscape. In addition, both Merchant Landscape and Scheu Steel operate and maintain equipment at the site involving petroleum, oils, and lubricants (POLs). Stains on the concrete floor inside the Merchant Landscape and Scheu Steel buildings suggest that periodic, *de minimis* surface spills have occurred; however, there are no indications of larger or more significant spills and no stains were observed on the unpaved exterior surfaces.

1.2 PHASE I ESA OBJECTIVES

The overall objective of the Phase I ESA documented herein is to assess the site in the context of the possible presence of hazardous substances in soil, soil vapor, and/or groundwater as a result of onsite operations or offsite releases. Specific objectives of the Phase I ESA are to:

- Document the history of the site in the context of the past use, storage, handling, and disposal of hazardous substances.
- Review and evaluate available information related to the investigation and remediation of known or suspected subsurface impacts, if any.
- Assess the potential for previously unidentified hazardous substances to be present in the subsurface as a result of their past use, storage, handling, or disposal within or near the site.

- Identify "Recognized Environmental Conditions" (RECs), "Controlled" RECs (CRECs), and historical RECs (HRECs), as defined in ASTM Standard E1527-13 (ASTM, 2013).

- Identify "other environmental features" (OEFs), defined for Phase I ESA purposes as existing or former site features or conditions that do not meet the ASTM definition of a REC, CREC, or HREC but which warrant mention for visibility purposes in the context of acquiring and redeveloping the site.

1.3 APPROACH

The subject Phase I ESA was conducted in general accordance with the scope and limitations of ASTM E1527-13 (ASTM, 2013) and included:

- A review of relevant background information, including the history of the site and adjacent properties, past land use, and regional hydrogeological conditions.

- A review of historical aerial photographs, topographic maps, and environmental records pertaining to the site.

- A walkover survey of the site and vicinity on March 1, 2019.

- A review of potential offsite sources of contamination that could adversely impact the subsurface environment beneath the site, including a search of regulatory agency databases and visual surveys of adjoining properties.

The format of this Phase I ESA report deviates from that recommended by ASTM; however, all of the elements required by ASTM E1527-13 are included or otherwise addressed.

1.4 LIMITATIONS

Avocet performed this Phase I ESA in general accordance with the scope and limitations of current ASTM practice (ASTM, 2013) and the standard of care customary in the environmental consulting industry as of the date of this report. The conclusions in this Phase I ESA report are based on the information available to Avocet from the sources cited; however, Avocet makes no warranty regarding the accuracy or completeness of this information. Moreover, this Phase I ESA specifically excludes any evaluation of geotechnical conditions, the stability of onsite or adjacent slopes or retaining walls, flooding hazards, noise, seismicity, and the possible impact, if any, of electromagnetic fields associated with onsite or nearby electrical facilities. Also, this report cannot and does not include any evaluation of undocumented activities at the site or on adjacent or nearby properties. The exclusions noted above should not be interpreted to mean that every other condition or potential condition has been considered in the subject Phase I ESA.

Avocet conducted this Phase I ESA to document environmental conditions at the site for decision making in the context of purchasing it for commercial development, and the following entities may rely on it:

- Panattoni Development Company, Inc.
- CP Logistics Vineyard LLC
- CP Logistics Platform, LLC
- Panattoni CLP, LLC
- Panattoni CLP Operator, LLC
- CDP Development, Inc.
- PDC OC/IE LLC
- Principal Real Estate Investors, LLC

The entities listed above may rely on the information in this Phase I ESA report for a period of 180 days from the date of issue. After 180 days, this Phase I ESA should be updated in accordance with ASTM guidance. Avocet will not be liable for any consequential damages arising from the use of this report for other than its intended purpose, for use of this report beyond 180 days of its issue date, or from unauthorized use by third parties.

1.5 REPORT ORGANIZATION

Including the introduction, this report is organized into seven sections. Section 2.0 describes the various sources of information utilized in conducting the Phase I ESA and Section 3.0 presents a summary of relevant background and regional information. Section 4.0 describes the history and current condition of the site, with emphasis on past operations involving potentially hazardous substances. Section 5.0 summarizes the previous and limited subsurface environmental investigations conducted at the site. Section 6.0 presents a summary of information gathered from a review of environmental databases maintained by local, state, and federal government agencies and describes the properties adjoining the site and selected nearby properties. Section 7.0 presents conclusions and recommendations in terms of identified RECs, CRECs, HRECs, and OEFs.

Supporting information is contained in a table, four figures, and eight appendices, all of which follow the text of this report. Appendices A and B contain historical topographic maps and historical aerial photographs, respectively, annotated with the site boundary. Appendix C contains a Certified Sanborn® Map Report, although no fire insurance maps were available. Appendix D is a City Directory report summarizing entries recorded in business, telephone, and other directories. Appendix E contains photographs of the site taken during Avocet's March 1, 2019 walkover survey. Appendix F is an ASTM 1527-13 User Questionnaire provided by Panattoni. Appendix G is a report summarizing information available from a review of environmental databases maintained by local, state, and federal government agencies. Appendix H documents a search for environmental lien and "activity and use limitations" (AULs) for certain of the parcels that comprise the site, although Avocet notes that no liens or AULs were found.

2.0 SOURCES OF INFORMATION

Sources of information utilized in preparing this Phase I ESA report included historical topographic maps; historical aerial photographs; a walkover survey of the site and adjoining properties; records available at selected local and state regulatory agencies; databases maintained by local, state, and federal government agencies; and records available from commercial and online sources.

2.1 TOPOGRAPHIC MAPS

To evaluate the history of the site and past land uses; Avocet reviewed historical U.S. Geological Survey (USGS) topographic maps published between 1897 and 2012 provided by Environmental Data Resources, Inc. (EDR), of Shelton, Connecticut. The maps, which show the approximate site boundary, are included in chronological order in Appendix A.

2.2 AERIAL PHOTOGRAPHS

To further evaluate the site's history, Avocet reviewed a "Decade Package" of historical aerial photographs provided by EDR. EDR's Decade Package typically includes at least one aerial photograph from each decade from the 1920s through the present day. For the subject project, EDR provided aerial photographs taken between 1938 and 2016. The photographs, which show the approximate site boundary, are included in chronological order in Appendix B.

2.3 FIRE INSURANCE MAPS

At Avocet's request, EDR conducted a search for fire insurance map coverage of the site; however, EDR reported that the site is an "unmapped property." A copy of EDR's "Certified Sanborn® Map Report" to that effect is included as Appendix C to this report.

2.4 CITY DIRECTORIES

Telephone and business directories have been published for cities and counties across the United States since the 1700s and often contain potentially useful information on past land uses and the types of business that operated at individual street addresses. EDR extracts information from such directories and consolidates it in its "The EDR-City Directory Abstract" report, a copy of which is included as Appendix D to this report.

2.5 WALKOVER SURVEY AND INTERVIEWS

Avocet personnel conducted a walkover survey of the site and vicinity on March 1, 2019. In the course of the walkthrough survey, Avocet interviewed the following persons:

- Mr. Jason Roybal – Materials Manager, Scheu Steel
- Mr. Freddie Martinez – Manager, Merchant Landscape Services

Selected photographs taken during the walkover survey are included in Appendix E. Avocet also reviewed an ASTM 1527-13 User Questionnaire provided by Panattoni, a copy of which is included as Appendix F to this report.

2.6 GOVERNMENT DATABASES

At Avocet's request, EDR conducted a search of government databases to document potential sources of contamination at or near the site. EDR's search included local, state, and federal records for the site and for other properties within ASTM-standard distances of the site. The records search is summarized in Section 6.0 and a copy of "The EDR Radius Map™ Report with GeoCheck®" is included in its entirety as Appendix G. As recommended by ASTM, all but a few of the databases searched were "current," i.e., had been updated within 90 days prior to the search date.

2.7 ENVIRONMENTAL LIEN AND AUL SEARCH

At Avocet's request, EDR conducted an environmental lien and AUL (activity and use limitation) search for those portions of the site known to have been used for commercial/ industrial purposes. EDR used the specific addresses provided by Avocet to search for parcel information and/or legal descriptions, ownership information, deed information, and any environmental restrictions that may have been recorded due to impacts from past operations. In brief, EDR did not find any environmental liens or AULs related to the parcels searched. A copy of the EDR Environmental Lien and AUL Search report is included as Appendix H to this report.

2.8 RECORDS AVAILABLE ONLINE

Avocet searched and reviewed records available through the GeoTracker and EnviroStor websites maintained by the California Environmental Protection Agency (CalEPA) for additional environmental information pertaining to the subject site as well as records pertaining to nearby properties. Relevant information from this research is incorporated or referred to, as appropriate, throughout the remainder of this report.

2.9 INFORMATION FROM REGULATORY AGENCIES

Selected federal, state, and local regulatory agencies were contacted on March 4, 2019 to determine whether they have potentially relevant environmental records pertaining to the site, including, in particular, records relating to USTs, aboveground storage tanks (ASTs), environmental permits, enforcement orders, reports and correspondence related to site investigation/assessment, soil sampling, monitoring, cleanup/remediation, removal actions, closures, or any records related to conditions in air, soil, surface water, groundwater, or other environmental media. The agencies contacted and Avocet's interactions with them were as follows:

- An online records request form was submitted through the U.S. Environmental Protection Agency's (EPA) Freedom of Information Act website (FOIAonline) to EPA's Region 9 office in San Francisco. On March 21, 2019, EPA responded that records may be available online via EPA's "MyProperty" website. Avocet

searched for the addresses associated with the subject site on the MyProperty website; however, no information was available.

- Written records requests were faxed to the California Department of Toxic Substances Control (DTSC) offices in Chatsworth, Cypress, and Sacramento. In letters dated March 4, 5, and 6, 2019, these three DTSC offices responded that they have no records responsive to Avocet's request, although the Sacramento office indicated that records may be available on the Hazardous Waste Tracking System (HWTS) managed by DTSC. The records available on HWTS did not, however, reveal information beyond what had already been obtained from other sources.

- A records request form was faxed to the San Bernardino County Fire Department (SBCoFD) followed by a hard copy request and a search fee. Avocet reviewed and selectively scanned the files available at the SBCoFD office on March 20, 2019.

- A records request form was faxed to the San Bernardino County Department of Environmental Health Services (SBCoDEHS), which responded on March 15, 2019 that it has no records pertaining to the site, although some SBCoDEHS documents were provided by SBCoFD.

- A records request form was faxed to the City of Rancho Cucamonga and the Rancho Cucamonga Fire District. The City and the Fire District provided records on March 6 and 13, 2019, respectively.

- A records request was emailed to the Santa Ana Regional Water Quality Control Board, which responded on March 6, 2019 that it has no records pertaining to the site.

- The South Coast Air Quality Management District responded to the request submitted online by Avocet on March 13, 2019 with permits for various pieces of equipment used by Scheu Steel.

The records obtained from the agencies listed above are referenced as appropriate throughout the remainder of this report.

2.10 Oil and Gas Records

To assess the possible presence of oil and/or natural gas wells at or in the vicinity of the site, Avocet reviewed information available online from the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). The findings of this review are summarized in Section 3.5.

2.11 RADON GAS RECORDS

To assess the possible presence of naturally occurring radon gas in the subsurface in the site vicinity, Avocet reviewed data available through the EPA and the California Department of Public Health (CDPH). Radon gas data were also included in the EDR Radius Map Report (Appendix G). The available radon gas data are summarized in Section 3.6.

3.0 BACKGROUND AND REGIONAL INFORMATION

Background and regional information considered relevant to the subject Phase I ESA includes the site's physiographic setting, nearby surface water features, and regional geologic and hydrogeologic conditions.

3.1 PHYSIOGRAPHIC SETTING

In a regional physiographic context, the site is situated in a broad, alluvial-filled valley bordered by the San Gabriel Mountains to the north, the Puente and Chino Hills to the southwest, and the San Jacinto Mountains to the southeast. The Santa Ana River is the main drainage feature in the valley, which is commonly referred to as the Upper Santa Ana River Valley. The ground surface in the site vicinity slopes uniformly to the southeast and the elevation at the site is around 1,136 feet above mean sea level.

3.2 SURFACE WATER AND DRAINAGE

The site is partially bordered to the east by Cucamonga Creek, originally a natural but ephemeral water course, but now an engineered, concrete-lined stormwater drainage channel. Cucamonga Creek originates in the San Gabriel Mountains to the north of the site and flows roughly north to south into the Santa Ana River at the Prado Dam. The Santa Ana River flows in a roughly west-southwesterly direction in a partially engineered channel, passing within 15 miles to the south of the site at its closest approach.

3.3 REGIONAL GEOLOGY

The site is located in the Chino Subbasin, a south trending alluvial groundwater basin covering approximately 240 square miles (California Department of Water Resources, January 20, 2006). The subbasin is bounded by the Rialto-Colton Fault to the northeast, by contact with the impermeable rocks of the Jurupa Mountains and La Sierra Hills to the southeast, by the Chino fault to the southwest, by the San Jose Fault to the northwest, and by the San Gabriel Mountains and the Cucamonga Fault to the north (Koehler, June 1983). The major faults are significant in that they are known barriers to groundwater flow within the aquifer and, hence, define some of the boundaries of the subbasin by influencing groundwater levels and direction of flow.

From a geological perspective, the Chino Subbasin features several stratigraphic units overlying the consolidated bedrock of the pre-Tertiary basement complex. From most recent to oldest, these units are younger alluvium (Holocene), older alluvium (Pleistocene), partly consolidated sediments of the Fernando Group (Plio-Pleistocene) and consolidated sedimentary and volcanic rocks ranging from the late Cretaceous to the Miocene. The site is situated on a younger (Holocene) alluvial fan consisting primarily of sediments eroded from the San Gabriel Mountains to the north. The unconsolidated alluvial sediments consist of coarse sand and gravel interbedded with layers of silt and clay. The Younger Alluvium is commonly light yellow, brown, or gray. It consists of rounded fragments derived from erosion of bedrock, from reworked Older Alluvium, and from the mechanical breakdown of larger fragments within the

Younger Alluvium itself. The partly consolidated sediments of the Fernando Group consist of gravel, sand, and clay of marine and non-marine origin and underlie the alluvial deposits until outcropping as the Chino Hills to the west. Further underlying these are the pre-Pliocene consolidated formations consisting of well stratified marine sandstones, conglomerates, shales, and interlayered lava flows. The basement complex underlying all of the above consists of deformed and re-crystallized metamorphic rocks interwoven with granitic and igneous material (Wildermuth Environmental, July 2003).

3.4 HYDROGEOLOGY

As outlined above, the boundaries of the Chino Subbasin are complex, but groundwater recharge occurs primarily through percolation of direct precipitation and stream flow from the surrounding mountain ranges. Additional recharge to the subbasin is believed to include underflow across the bounding faults, underflow from the Temescal Basin, and returns from beneficial use. Groundwater flow within the subbasin is generally to the southwest, toward Prado Dam. While considered a single basin from a geologic perspective, the Chino Subbasin has been subdivided into five flow systems, designated as "management Zones," that act as separate and distinct hydrologic units. The subject site is located in the northwestern portion of Management Zone 2.

So far as Avocet is aware, there has been no assessment of groundwater at the subject site, although there have been extensive investigations elsewhere within the Chino Subbasin related to several well-documented regional contamination plumes, including two within 3 miles to the southeast (hydraulically cross- or downgradient). These investigations indicate that the primary aquifer in the site area can be divided into two units. The uppermost unit, known as the "Upper Package," consists primarily of sands and gravels and extends to a depth of approximately 550 feet below ground surface (bgs). The "Lower Package" is a deeper sequence of sands and clayey sediments. The units are separated by an aquitard ranging in thickness between 30 and 50 feet (Amec Foster Wheeler Environment & Infrastructure, Inc., March 30, 2015). In the closest known monitoring well, located approximately 3 miles southeast of the subject site, groundwater was recorded at 261 feet bgs in October 2018 (Geosytec Consultants, Inc., January 31, 2019).

The Chino Subbasin has been extensively investigated for water resource purposes and also because groundwater in the basin has been impacted by nitrates, attributed to past agriculture and wastewater discharge, and industrial contaminants. Figure 4 shows the approximate extent of the various "regional" contaminant plumes within the subbasin; however, the subject site does not appear to overlie any of them. The closest plume is the "GE Test Cell Plume," which originates inside the southern boundary of Ontario International Airport, approximately 2.8 miles to the south-southwest of the site. The larger, so-called "Archibald South Plume" is located further south, at least 4.4 miles from the subject site. The GE Test Cell and Archibald South plumes both involve VOCs. There are also several large perchlorate plumes in the Chino Subbasin but, as noted previously, the subject site does not appear to overlie any of them.

3.5 OIL, GAS, AND GEOTHERMAL WELLS

According to DOGGR records available online, the site is not within or near the administrative boundary of an oil field (DOGGR, March 15, 2019) and there are no active oil or natural gas wells within 1 mile of the site. In the early 1920s, the Italian Vineyard Company attempted to drill an exploratory (wildcat) well approximately 2.9 miles to the southeast; within the present day boundary of Ontario International Airport. However, drilling was difficult and the target depth was never reached. After the drilling derrick was damaged in a storm, the Italian Vineyard Company gave up and abandoned its attempt to install the well (Italian Vineyard Company, February 2, 1928). DOGGR's predecessor acknowledged the abandonment effort and "closed its record" on the abandoned well (California State Mining Bureau, Department of Petroleum and Gas, February 6, 1928). Based on the intervening distance and its hydraulically downgradient location, the abandoned exploratory oil and gas well is not likely to have impacted the subsurface environment beneath the subject site.

3.6 RADON GAS

The EPA recommends avoiding long-term exposure to radon levels greater than 4 picocuries per liter (pCi/L). CDPH maintains indoor radon test result records for California sorted by zip code (CDPH, February 2016). In brief, indoor radon measurements were performed throughout the state, and the percentage of buildings with reported radon levels greater than 4 pCi/L within each zip code was reported, along with the number of buildings tested. All 34 of the buildings tested for radon within the 91730 zip code contained radon at levels less than 4 pCi/L. In addition to the above, the EPA and the USGS maintain a Map of Radon Zones for the United States, organized by county (EPA, 2016). According to the map, San Bernardino County is a Radon Zone 2, indicating that radon levels in buildings are expected to be between 2 and 4 pCi/L. EDR's Radius Map Report (Appendix G) indicates that the radon activity on the ground floor of residential structures within San Bernardino County was 2.40 pCi/L, which is less than EPA's recommended maximum exposure level. Based on the above, naturally occurring radon is unlikely to be of concern in the vicinity of the site.

4.0 SITE HISTORY AND CURRENT CONDITION

This section documents the history and current condition of the site, with emphasis on current or former environmental features, to the extent known and to the extent there were any.

4.1 SITE HISTORY

The history of the site and vicinity has been compiled based on information from the sources outlined in Section 2.0, particularly the historical topographic maps and aerial photographs. For discussion purposes, the site's history has been broken up according to the primary site use(s) with, where available, approximate date ranges.

4.1.1 Orchards and Residential Development, 1897 – <1949

The earliest records reviewed for Phase I ESA purposes were topographic maps published in 1897, 1900, and 1903 (Appendix A). These near identical maps show that the site and the surrounding area were essentially undeveloped at the time, although they could have been agricultural. The beginnings of the present day street network are shown on the maps, including present day 8th Street to the south and possibly Baker Avenue to the west. The single Santa Fe Railroad track that borders the site to the south is also shown on all three of these early maps. The closest structures to the site, probably residences, were located along the south side of the railroad track. The three maps also show Cucamonga Creek following its natural, irregular course to the east of the site.

The earliest aerial photograph reviewed for Phase I ESA purposes was taken in 1938 (Appendix B) and shows that the site and the surrounding area were agricultural and that most of the existing street grid had been established. A majority of the site was planted with trees, although the southeast corner (the former Scheu Steel property at 8830 Vineyard Avenue) was either fallow or planted with a ground crop. Given the history of the area, Avocet assumes the trees were citrus fruit trees. Cucamonga Creek bordered the site to the northeast but had not yet been channelized. Linear features on the 1938 aerial photograph suggest that another water course had flowed northwest to southeast through the middle of the site, although this second water course is not depicted on any of the maps of the area. Subsequent aerial photographs show that this second drainage exited the site via culvert beneath the railroad track along the southern site boundary. The 1938 photograph also shows the site featured two structures or possibly groups of structures at the time, one inside the northern boundary at 8705/8725 East 9th Street, and the other in the southeastern corner of 8810 Vineyard Avenue. Based on their small size and the presence of shade trees, it seems likely each group of structures included a residence and adjoining garages or agricultural outbuildings related to the surrounding orchards. Topographic maps published in 1941 and 1944 (Appendix A) show two single structures at the locations described above, likely the residence at each location. The topographic maps also reflect more dense development in the nearby communities of Upland and Ontario to the west and southwest, respectively.

4.1.2 Incremental Commercial/Industrial Development, <1949 – Present

An aerial photograph taken in 1949 (Appendix B) indicates the continued use of the subject site and surrounding area for agricultural purposes but several additional structures, two of which appeared commercial/industrial in nature, had been added since 1938. One of the commercial/industrial structures appears to have been a former building at 8705 East 9th Street, inside the northern site boundary. According to the EDR City Directory report (Appendix D), 8705 East 9th Street was occupied by Castellini Welding and Fabrication as early as 1960; however, there is no readily available documentation pertaining to operations at that address in 1949. The other commercial/industrial structure was the existing building at 8847 East 9th Street, in the northeast corner of the site. This building is currently occupied by Merchant Landscape; however, it is not clear who occupied it in 1949. Another of the additions since 1938 appears to have been the existing abandoned residence at 8803 Baker Avenue, inside the western site boundary. In addition to the structures mentioned above, the 1949 photograph also shows two rectangular clearings in the orchard at 8810 Vineyard Avenue, although their purpose is not known. To the northeast of the site, the property on the southwest corner of 9th Street and Vineyard Avenue featured a rectangular commercial structure. Discussed further in Section 6.5, this property is currently occupied by Kiro Cars, a used car dealer. An aerial photograph taken in 1953 (Appendix B) shows the site more or less the same as in 1949 except for additional cleared areas in the orchard at 8810 Vineyard Avenue. The purpose of these clearings cannot be discerned from the photographs, although they may have been fenced paddocks for horses or other animals. To the northeast, Cucamonga Creek had been channelized, although it is not clear if the channel was lined at the time. Also by 1953, a few of the existing residences on the southeast corner of 9th Street and Baker Avenue had been constructed. These residences currently adjoin part of the northern site boundary.

An aerial photograph taken in 1959 (Appendix B) shows that the site had been cleared of the orchards and two additional commercial/industrial structures had been built. Specifically, the 1959 photograph shows that the existing Scheu Steel building had been constructed in the southeast corner of the site, at 8830 Vineyard Avenue. Information available online indicates that Scheu Steel was an orchard heater manufacturer based in Colorado that expanded its operations into California, specifically to the subject site, in or around 1957. Scheu Steel slowly transitioned away from heater manufacturing into sheet metal distribution and eventually into the production of sheet and plate steel and structural steel products. Also by 1959, the existing radio station building had been built at 8729 East 9th Street, inside the northern site boundary, and three of the four existing radio tower masts had been erected in the cleared former orchard area to the south. Although the site had been cleared of orchards, it featured a grass cover that clearly was being mowed, possibly to harvest hay. There were no other obvious changes in land use at the site in 1959, but there was continuing residential development to the north and southwest.

The trend of increasing residential development is evident in an aerial photograph taken in 1966 (Appendix B), which shows tract housing to the south and southwest of the site. In addition, the 1966 photograph shows that a second building had been constructed inside the western site boundary, at 8769 Baker Avenue. The rectangular structure could have been residential or commercial but it appears to have been short lived as it was not present in 1975, when the next

aerial photograph reviewed was taken. The only other potentially noteworthy feature was that a railroad spur had been installed to serve the Scheu Steel building in the southeast corner of the site. The spur appears to have dead-ended at the southeast corner of the Scheu Steel building. A topographic map published in 1966 (Appendix A) generally reflects the above. In 1968, Funco Motorsports (Funco), which built dune buggies, began operating in the present day Merchant Landscape building at 8847 East 9th Street in 1968. Although there is no corroborating documentation, it seems likely Funco's operations would have involved machining, welding, painting, and the use of POLs; however, there are no records of USTs at 8847 East 9th Street.

A topographic map published in 1973 (Appendix A) and an aerial photograph taken in 1975 (Appendix B) show the existing Ecoplast warehouse in the south central portion of the site, at 8855 Baker Avenue, and that the structure visible in the 1966 photograph, at 8769 Baker Avenue, had been removed. As the railroad track prevented access from 8th Street to the south, the warehouse was accessed from Baker Avenue to the west via a long, asphalt-paved driveway. It is not clear who occupied the warehouse in 1973, but based on the records available to Avocet, the first recorded occupant of the Ecoplast warehouse at 8855 Baker Avenue was Patrini Shoes. Patrini Shoes operated seven USTs at the site (Figure 3); six for MEK and one for MIBK. These USTs are discussed further in Section 5.1, but based on their presence, it appears that Patrini Shoes actually manufactured shoes at the site, as opposed to just warehousing shoes manufactured elsewhere. Other than the addition of the warehouse at 8855 Baker Avenue, few land use changes within the subject site boundary are discernible from the 1975 photograph apart from the addition of a swimming pool at the residential property at 8803 Baker Avenue and recultivation of some of the cleared orchard areas inside the eastern site boundary, possibly with grape vines. Topographic maps published in 1976, 1981, and 2012 provide little, if any, information of use for Phase I ESA purposes.

An aerial photograph taken in 1985 shows the addition of the existing Scheu Steel office building in the southeast corner of the site and the last of the four existing radio station masts at 8729 East 9th Street also had been added. The 1985 photograph also shows that the present day Ecoplast warehouse had been extended to the east. Inside the western site boundary was an unpaved track that terminated in a closed loop. The area around the site had been further developed by 1985 with tract homes to the south (across 8th Street) and west (across Baker Avenue. An aerial photograph taken in 1989 (Appendix B) shows that the area between the Scheu Steel and Ecoplast buildings had been recultivated, possibly with more grape vines. The 1989 photograph also shows that materials were being stored outdoors to the south of the Scheu Steel building. The Scheu Steel building had always been accessed from the east, from Vineyard Avenue; however, the 1989 photograph shows the building could also be accessed from the west, from Baker Avenue, via a long, possibly unpaved driveway along the north side of the railroad track that bounds the site to the south. To the south of the site, the 1989 photograph shows that the strip of land between the railroad track and 8th Street had been developed with nine small commercial buildings. Based on a review of the City Directory Abstract (Appendix D) and the findings of the EDR Radius Map Report (Appendix G), these commercial buildings have historically been operated as auto repair and maintenance shops.

Aerial photographs taken in 1990 and 1994 (Appendix B) show little, if any, change in land use within the subject site boundary other than that the unpaved driveway between Baker Avenue and the Scheu Steel building had been removed or at least was no longer being used by 1994. As discussed in Section 5.1, the USTs at the Patrini Shoe facility were removed in February 1990 (Groundwater Technology, Inc., February 28, 1990), suggesting that Patrini Shoes may have moved out or at least stopped manufacturing shoes. In any event, Avocet understands that in or around 1995, Scheu Steel expanded its operations into the former Patrini Shoe building at 8855 Baker Avenue to accommodate a powder coating line for portable heaters reportedly manufactured at another facility in Upland, California. Reportedly, Scheu Steel started powder coating as part of its effort to eliminate solvent wastes from its operations at the Upland facility (SBCoDEHS, October 11, 1995). Available records indicate that the powder coating line consisted of a four-tank phosphate cleaning line, the powder coat unit, and a curing oven. A floor plan obtained from SBCoFD shows that the Scheu Steel powder coating line occupied the north end of the eastern extension to the original building, while the remainder of the extension was a fabrication shop. The eastern half of the original building was annotated "sub-assembly" and the western half was for finished good storage. The northwest corner of the original building was built out with offices and the southwest corner featured an engineering laboratory. The floorplan indicates that hydraulic oil was stored in drums or possibly totes outside the eastern wall of the eastern extension. A drum or tote for kerosene, presumably for testing the heaters, was stationed outside the engineering laboratory. It appears that powder coating continued at 8855 Baker Avenue until 2004, when Scheu Steel reportedly terminated its involvement in the portable heater business (Scheu Manufacturing Company, May 12, 2004).

An aerial photograph taken in 2006 (Appendix B) indicates that the property at 8769 Baker Avenue, in the northwest corner of the subject site, had been disturbed, although the next aerial photograph, taken in 2009, shows that no development occurred. The area immediately to the east was being developed in 2006 with Lanyard Court and the seven existing commercial buildings (Figure 3), so it is possible the disturbance at 8769 Baker Avenue was related. Other, minor changes in land use include an unpaved access road to the west side of the building at 8855 Baker Avenue, which at the time was occupied by Paragon Schmid. Paragon Schmid operated the building as a distribution center for building materials, such as fireplaces, rain gutters, and insulation (SBCoDEHS, February 8, 2007), and appears to have stored materials outdoors to the south and west of the building. The grape vines visible in earlier aerial photographs in the southeast corner of the site had been removed by 2006 and Scheu Steel had expanded its outdoor storage area to the west of its warehouse to the present day extent. The nine-building business park on Lanyard Court, to the north of the site, had been completed by 2009 but the 2009 aerial photograph (Appendix B) otherwise shows little, if any, discernible change in conditions at or around the site.

Sometime between 2009 and 2012, the residence north of the Scheu Steel building, in the southeast corner of 8810 Vineyard Avenue, was demolished. Also during this time, the tenant at 8855 Baker Avenue changed from Paragon Schmid to Masco Contractor Services, which performed similar operations to Paragon Schmid and operated at the site until 2013 (SBCoFD, July 17, 2013). Based on signage outside the 8855 Baker Avenue building, there was one

additional tenant between Masco Contractor Services and Ecoplast, a company called Finelines. Finelines purchased and resold merchandise from auctions and company liquidations and used the 8855 Baker Avenue building as a distribution center.

The residences at 8803 and 8817 Baker Avenue were occupied until at least 2012, as indicated by the full swimming pool in an aerial photograph taken in 2012 (Appendix B). In addition, the "Street View" tool in Google Maps includes photographs taken in 2011 that show multiple cars in the driveway of the properties. The 2011 Street View photographs indicate there were at least three structures on the two parcels; however, during Avocet's walkover survey, only one structure remained standing. Based on database listings for 8817 Baker Avenue, approximately 1.15 tons of asbestos containing material (ACM) waste was removed from the property in 2016, suggesting this is when the buildings at this address were demolished (Appendix G). Avocet notes that the 2016 aerial photograph shows these buildings still standing; however, it is not known what time of year the demolition actually took place, nor what the exact flight date was for the aerial photograph (Appendix B). The 2016 photograph also shows that the buildings at 8705 East 9th Street and the residence at 8725 East 9th Street had been demolished. The EDR Radius Map Report (Appendix G) includes database listings for National Pollution Discharge Elimination System (NPDES) permits for temporary construction between October 2015 and August 2016 at both of these addresses, as well as documentation of the disposal of approximately 1.38 tons of ACM waste in 2016, which is assumed to be associated with the demolition of the buildings. Based on the EDR City Directory Abstract (Appendix D), Castellini Welding and Fabrication may have ceased operation as far back at the mid-1990s, and it is not clear for what purpose, if any, the buildings at 8705 East 9th Street were used between the welding company occupancy and their demolition. As far as Avocet is aware, the subject site has remained relatively unchanged since 2016.

4.2 CURRENT SITE CONDITIONS

Avocet conducted a walkover survey of the site on March 1, 2019 to visually assess current site conditions and potentially relevant environmental features. Avocet has put more emphasis on the developed portions of the site in the following discussion, particularly the areas developed for commercial/industrial purposes. Selected photographs taken during the walkover survey are included in Appendix E.

4.2.1 8855 Baker Avenue (Former Patrini Shoe Facility)

The southwest quadrant of the site (APN 0207-271-25) features the former Patrini Shoes facility; however, the western half has never been developed (Figure 3). Occupants after Patrini Shoes included Scheu Steel, which used it for powder coating, and Paragon Schmid and Masco Contractor Services, both of which were building material/component distributors. Little is known about historical operations in and around the building at 8855 Baker Avenue other than that Patrini Shoes operated seven USTs for MEK and MIBK storage. As discussed in Section 5.1, these seven USTs were permanently closed by removal in February 1990.

Access to the existing warehouse building and parking lot is via an asphalt-paved road from Baker Avenue through a normally locked gate. Ecoplast, the current occupant, specializes in

recycling plastics, which it processes into small beads that can be easily transported and melted down for reuse. It appears, however, that the processing is conducted elsewhere; Ecoplast currently uses the building only to store excess processed plastic (Photograph E-1) in "super sacks" (Photograph E-2). Avocet understands the facility is not staffed and is accessed on an as-needed basis only, either for material pickups or deliveries. The northwestern part of the building features unused office space, while the warehouse encompasses the remainder. The inside of the building features concrete floors, and other than open space, there are two bathrooms. Miscellaneous items, including old furniture and tools, are stored in the southwest corner of the building (Photograph E-3). Avocet personnel did not observe any floor drains inside the building but did observe two holes in the concrete floor, both approximately 4 inches in diameter and at least 12 inches deep (Photograph E-4). The holes feature a steel lining with a threaded collar, suggesting they may be related to the powder coating or other equipment previously installed in the building. Avocet did not observe any hazardous materials or wastes at the property, although liquid was observed leaking from large bales of plastic bags and staining the floor in the immediate vicinity (Photograph E-5). The building at 8855 Baker Avenue features a parking lot on the north side (Photograph E-6), a small canopy attached to the eastern side (Photograph E-7), and a recessed loading dock along the western side (Photograph E-8). During Avocet's walkover survey, miscellaneous equipment, including parts for a former conveyor belt, were observed outside the southern wall of the building (Photograph E-9).

4.2.2 8803, 8817, and 8769 Baker Avenue

The northwestern quadrant of the site comprises three parcels (APNs 0207-271-89, 0207-271-40, and 0207-271-39) with street addresses of 8769, 8803, and 8817 Baker Avenue, respectively (Figure 3). The parcels at 8803 and 8817 Baker Avenue were residential and featured as many as three separate homes in the past, although only one abandoned home remains, at 8803 Baker Avenue (Figure 3). The remaining home is in a state of disrepair and the windows are boarded up (Photograph E-10). Avocet observed concrete debris (Photograph E-11) behind (east of) the abandoned home at a location that coincides with the former swimming pool visible in historical aerial photographs. The parcel at 8769 Baker Avenue is currently vacant and overgrown with vegetation. As noted in Section 4.1.2, it featured a residential or commercial structure in 1966, but Avocet observed no trace of it in the field. The parcel is partially fenced along Baker Avenue, although there is no east-west fencing to separate it from the parcels to the south (Photograph E-12).

4.2.3 8705 and 8725 East 9th Street

The properties at 8705 and 8725 East 9th Street (APNs 0207-271-14 and 0207-271-28, respectively) are located immediately west of the existing radio station building (Figure 3). The two parcels are now vacant, but two of the building pads and the former driveway at 8705 East 9th Street are still present, as are two additional pads (Photographs E-13). As previously mentioned, 8705 East 9th Street was occupied by Castellini Welding and Fabrication until at least 1995, while 8725 East 9th Street apparently was occupied by Lucy Ricci between 1956 and 2003, suggesting it was a residence. Avocet observed demolition debris scattered around the property, including pieces of concrete pipe (Photograph E-14), broken glass, wood, and masonry. It is not clear whether the pipe debris contains asbestos (i.e., is asbestos-concrete pipe or ACP); however,

only two lengths of broken pipe totaling approximately 5 feet were observed. One of the smaller building pads, possibly for a garage, is inscribed with the date April 21, 1999 and is painted red (Photograph E-13). Avocet notes that red paint can contain elevated concentrations of lead and/or other metals, although the average concentrations typically would not make the concrete a hazardous waste unless the lead is soluble. Given the inscribed date, however, the red paint is unlikely to be lead-based paint (LBP).

4.2.4 8729 East 9th Street

APN 0207-271-27, at 8729 East 9th Street (Figure 3), is currently being used by radio station KSPA, which broadcasts Vietnamese-language content. Based on historical aerial photographs and City Directory information, the parcel has been used for radio broadcasting since it was first developed. The parcel features an office building with associated parking lot along East 9th Street (Photograph E-15), inside which are several audio studios and offices for personnel. The remainder of the parcel is essentially undeveloped except for four radio masts supported by guy wires (Photograph E-16). Avocet did not observe a backup electrical generator, such as might have required an AST for fuel storage, at the property.

4.2.5 8847 East 9th Street and 8810 Vineyard Avenue

Merchant Landscape Services operates out of the building on APN 0207-271-94 at 8847 East 9th Street (Figure 3). The building features office space and a workshop in which landscaping equipment is stored and maintained. The eastern part of the workshop is subdivided into three gated areas along the northern side and an open work area along the southern side. The three gated areas are used to store cleaning supplies, paint, tools, oil for equipment, fertilizer, and various herbicides and pesticides (Photograph E-17). The pesticides and herbicides are stored in their own gated area, which Avocet understands is normally locked in order to keep track of what chemicals are checked in and out. The pesticides and herbicides are stored on shelves in containers of 1- to 5-gallon capacity (Photograph E-18). There was no secondary containment for any of the pesticides and herbicides and some of the containers were stored directly on the ground. However, Avocet did not observe indications of significant spills during the walkover survey, although there were indications that *de minimis* spills may occur while filling handheld sprayers and other application equipment (Photograph E-18). Secondary containment for other liquids (oil, paint, etc.) similarly was not observed. Across from the gated storage areas were stacks of spare tires, generators, work benches, and various equipment parts from lawnmowers and weed whackers (Photograph E-19). Mr. Martinez informed Avocet that this area is where most of Merchant Landscape's equipment maintenance and repair takes place.

Additional gated storage areas are located along the northern and southern walls inside the western portion of the workshop. There are a total of ten of these gated areas, each assigned to a specific account (or maintenance site). Mr. Martinez informed Avocet that the equipment assigned to each account is stored separately to ensure the landscaping crews are properly equipped for specific sites. Typical equipment stored inside the gated areas during Avocet's walkover survey included lawnmowers, weed whackers, leaf blowers, traffic cones, waste containers, and gas cans for filling up the gasoline-powered equipment (Photograph E-20). The gas cans were not provided with secondary containment; however, none of them appeared to be

leaking. Between these storage areas, Avocet observed a row of ride-on lawnmowers (Photograph E-21). No floor drains were observed inside the workshop and the facility manager indicated that they do not typically wash down the inside of the workshop, but rather use brooms to sweep up any messes. If spills of oil or other liquids occur, absorbent is typically deployed and then swept up. Avocet observed *de minimis* oil stains on the concrete floor throughout the work shop (Photograph E-22).

The area immediately to the west and south of the Merchant Landscape building is used to park vehicles, trailers, and equipment. Merchant Landscape uses the area to the west of the warehouse to stage potted plants and soil for planting (Photograph E-23). During Avocet's walkover survey, there was also a trailer loaded with empty buckets and traffic cones and several spare wheels next to the potted plants. There are two storage containers located outside the southern wall of the warehouse. The containers are used to store additional equipment, such as fertilizer spreaders, and fertilizer (Photograph E-24). Other pieces of equipment were stored along the southern wall of the warehouse during the walkover survey, such as ride-on lawnmowers, an empty storage tank for liquid, traffic signage, and additional fertilizer spreaders (Photograph E-25).

To the south of the equipment storage yard is an open, unpaved area at 8810 Vineyard Avenue (APN 0207-271-96). This area is used for employee parking and to stage green waste. In total, the area covered with green waste was estimated at approximately 1.5 acres. Avocet understands that Merchant Landscape processes the green waste little by little and disposes of it inside the green waste container located onsite, which is then transported offsite for disposal. Avocet observed tree trunks, branches, mulch, and other vegetation cuttings, as well as trash and debris, scattered throughout the green waste area (Photograph E-26). One small pile of concrete debris was also noted in the northeastern part of the green waste staging area (Photograph E-27). The southeastern corner of 8810 Vineyard Avenue is currently vacant (Photograph E-28).

4.2.6 8830 Vineyard Avenue

Scheu Steel occupies the southeastern quadrant of the site at 8830 Vineyard Avenue (APN 0207-271-93). Among other things, Scheu Steel currently produces sheet and plate steel products and structural steel members. Related operations inside the Scheu Steel building include plasma and flame cutting, metal forming, shearing, sawing, hole drilling, and hole punching. Related machine tools in the building include six industrial saws, two Cincinnati shear machines, a flame cutting table, a plasma cutting table, four press brakes for shaping sheet material, two hydraulic punch presses, and a plate beveling machine (Photographs E-29 through E-31). In addition to machinery, the building features two small flammables storage cabinets containing spray paints and enamel (Photograph E-32). Scheu Steel generates small quantities of hazardous waste, including waste oil and waste coolant (cutting fluid). These wastes are currently stored in 55-gallon drums on a plastic secondary containment pallet. At the time of Avocet's walkover survey, there were four drums on the secondary containment pallet, along with four 1-gallon containers of antifreeze/coolant and one container of synthetic oil. Stored next to the 55-gallon drums, without secondary containment, were five gas cans and a car battery (Photograph E-33).

The concrete floor beneath the gas cans was stained with oil. Staining was also observed on the concrete floor beneath several of the machine tools in the building.

Outside the warehouse along the southern wall of the building is an AST for propane (Photograph E-34). Immediately to the west of this propane AST is a small, attached shed that houses tumbling equipment used to deburr machined or cut metal parts (Photograph E-35). Stored outside along the southwestern corner of the warehouse are gas cylinders and a 1,625-gallon AST for liquid oxygen (Photograph E-36) used for plasma cutting. Avocet observed a drainage pipe to the southwest of the warehouse building and the liquid oxygen AST (Photograph E-37). According to Scheu Steel, stormwater runoff from that area of the property enters the pipe and flows beneath the railroad tracks, while the remainder of the property generally drains to the east, toward Vineyard Avenue. However, Mr. Roybal indicated that there are "drainage problems" because the property immediately west and southwest of the building is very flat and the property receives run-on from the north-adjoining property at 8810 Vineyard Avenue. In an attempt to deflect this run-on to the east, toward Vineyard Avenue, Scheu Steel has built a berm along the north side of the building. The berm is constructed of broken and crushed concrete (Photograph E-38) reportedly obtained from the previously residential property to the north (8810 Vineyard Avenue). Also located along the northern wall of the building were hoppers for collecting dust and particulates generated during metal cutting and machining processes (Photograph E-39). The area to the south of the building is used for outdoor storage of metal products, scrap metal, and equipment such as forklifts (Photograph E-40). The Scheu Steel facility also features a small office building to the southeast of the main fabrication building and a surrounding parking lot for clients and employees. Based on the available historical aerial photographs, the office building was constructed in or around 1985. Immediately to the west of the office building is a communications tower owned by Pegasus Tower Company, LLC (Figure 3).

Scheu Steel uses the approximately 2.5-acre area to the west of the warehouse for additional outdoor storage of steel products (Photograph E-41). Avocet observed nine empty 55-gallon drums in the northwest corner of this area (Photograph E-42). The drums were labeled for hydraulic oil, which is used in several of the machine tools in the Scheu Steel building. In addition to metal and empty drum storage, Avocet observed multiple stockpiles of material in the southern portion of this area. Scheu Steel stated that the stockpiled material is asphalt grindings from adjacent street work and that it is periodically used to repair erosion damage and fill in low spots where surface water might otherwise pond. The material is also spread on the unpaved roads at the property for dust suppression (Photograph E-43). Avocet personnel were informed by onsite personnel that the material was tested for contamination and "came back clean"; however, the analytical data were not available for review, nor was Scheu Steel able to provide any documentation related to the origin of the stockpiled material. Avocet estimates there are approximately 750 cubic yards of the asphalt grindings material stockpiled at the site.

4.2.7 ASTM E1527-13 Features

ASTM E1527-13 includes a list of potential environmental features, such as USTs, sumps, stained surfaces, and the like, that are to be addressed in a Phase I ESA for a commercial or

industrial property. The presence or absence of these features is summarized below with, where appropriate, a reference to the section in this report where they are addressed.

Potential Environmental Feature or Condition	Absent	Present	Discussion Section
Hazardous Substances and Petroleum Products in Connection with Identified Uses		✓	Liquid oxygen, hydraulic oil and other POLs, coolant, pesticides/herbicides, gasoline, Section 4.2
Storage Tanks		✓	AST for liquid oxygen, Section 4.2.6 Former USTs, Section 5.0
Odors	✓		
Pools of Liquid	✓		None other than ponded rainwater
Drums		✓	Some empty, some filled with waste oil and coolant, Section 4.2.6
Hazardous Substance and Petroleum Products Containers		✓	Hydraulic and other petroleum oil, coolant, pesticides/herbicides, gasoline, Section 4.2
Unidentified Substance Containers	✓		
Polychlorinated Biphenyls (PCBs)	✓		
Heating/Cooling	✓		
Stains or Corrosion	✓		*De minimis* at 8855 Baker and at Merchant Landscape?
Drains and Sumps	✓		
Pits, Ponds, or Lagoons	✓		
Stained Soil or Pavement		✓	Oil stains throughout the Merchant Landscape workshop and Scheu Steel warehouse, Section 4.2
Stressed Vegetation	✓		
Solid Waste	✓		
Wastewater	✓		
Wells	✓		
Septic Systems		✓	At least one active at Merchant Landscape. Homes on Baker Avenue originally featured septic systems, which may not have been removed. Other septic systems likely.

5.0 PREVIOUS INVESTIGATIONS

So far as Avocet has been able to determine, there have been no surveys for ACMs, LBP, and/or other potentially hazardous building materials at the site and subsurface environmental investigations have been limited to confirmation soil samples collected during the removal of the former USTs at 8855 Baker Avenue and 8830 Vineyard Avenue.

5.1 PATRINI SHOES USTS

Patrini Shoes operated seven 2,000-gallon USTs, six for MEK and one for MIBK, outside the southeast corner of the building at 8855 Baker Avenue, at the approximate location shown in Figure 3. Records available from SBCoFD indicate that all seven USTs were installed in 1980 and permanently closed by removal on February 13 and 14, 1990. Two of the USTs reportedly had not been in use prior to being removed. The USTs were all reportedly intact upon removal. With oversight from SBCoDEHS and/or SBCoFD, Groundwater Technology, Inc. (GTI) collected a total of 14 confirmation soil samples from the tank excavation, 2 from beneath each of the seven USTs, and had them analyzed for VOCs, including MEK and MIBK, using EPA Method 8240. None of the 14 samples contained detectable concentrations of MEK, MIBK, or any other VOCs (GTI, February 28, 1990); however, Avocet notes that the Reporting Limits (RLs) were somewhat elevated.

Although the results of the confirmation soil sample analyses were submitted to SBCoDEHS, it does not appear that SBCoDEHS or any other regulatory agency issued a closure or "no further action" (NFA) letter for the seven Patrini Shoe USTs. Certainly, Avocet did not find any such closure documentation in its review of SBCoDEHS or SBCoFD records (Section 2.9). That said, it was not necessarily "standard practice" for local agencies to issue NFA letters at that time unless such a letter was specifically requested. Avocet notes that the Patrini Shoes USTs do not feature on the GeoTracker website maintained by CalEPA. Avocet further notes that the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of VOCs in soil vapor was not addressed.

5.2 SCHEU STEEL USTS

Scheu Steel formerly operated two USTs, a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline, to the south of the building at 8830 Vineyard Avenue, at the approximate locations shown in Figure 3. It is not clear when the USTs were installed; however, records available from SBCoFD indicate that both USTs were permanently closed by removal on April 27, 1990 (SBCoDEHS, April 27, 1990). Water Control/Tank Protection, presumably the tank removal contractor, collected three confirmation soil samples from the tank excavations, two from beneath the larger diesel UST and one from beneath the smaller gasoline UST. The partial records available indicate that the two samples from beneath the diesel UST were to have been analyzed for total petroleum hydrocarbons (TPH) using EPA Method 418.1, and the single sample from beneath the gasoline UST was to have been analyzed for TPH as gasoline (TPH-g), aromatic VOCs using EPA Method 8020, and lead using EPA Method 7420. The results of the

aromatic VOC analysis (if conducted) were not available in SBCoDEHS files, but the results of the other analyses (Associated Laboratories, May 2, 1990) were as follows:

Scheu Steel UST Confirmation Soil Sample Results (milligrams per kilogram)			
Sample ID	**TPH** (EPA 418.1)	**Total Lead** (Method NS)	**Total Hydrocarbons** (CA DHS)
4,000-Gallon Diesel UST			
3' N	ND<10	- -	- -
3' S	ND<10	- -	- -
1,000-Gallon Gasoline UST			
3' Gas	- -	ND<5	ND<10

Notes: NS = method not specified
CA DHS = California Department of Health Services
ND = not detected at the Reporting Limit indicated
"- -" = sample not analyzed

Consistent with the Patrini Shoes USTs, although the results of the confirmation soil sample analyses were submitted to SBCoDEHS, it does not appear that SBCoDEHS or any other regulatory agency issued a closure or NFA letter for the two Scheu Steel USTs. As noted previously, however, it was not necessarily standard practice for local agencies to issue NFA letters at that time unless specifically requested. As with the Patrini Shoes USTs, the Scheu Steel USTs do not feature on the GeoTracker website maintained by CalEPA. Also as with the Patrini Shoes USTs, the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of fuel oxygenates in soil and fuel oxygenates and other fuel hydrocarbons in soil vapor were not addressed.

6.0 ADJOINING AND NEARBY PROPERTIES

This section summarizes a search by EDR of environmental databases and describes properties adjoining the subject site and selected nearby properties. The descriptions of adjoining and selected nearby properties are based on Avocet's observations from public rights-of-way, information included in EDR's report (Appendix G), and information available from the GeoTracker and EnviroStor websites maintained by CalEPA.

6.1 DATABASE LISTINGS

EDR's search encompassed over 90 databases maintained by local, state, and federal government agencies, including all of the databases specified in ASTM E1527-13, §8.2.1. The target property was defined for records search purposes by the addresses of the individual parcels, as follows:

APN	Address
0207-271-25	8855 Baker Avenue
0207-271-27	8729 East 9th Street
0207-271-39	8817 Baker Avenue
0207-271-40	8803 Baker Avenue
0207-271-89	8769 Baker Avenue
0207-271-93	8830 Vineyard Avenue
0207-271-94	8847 East 9th Street
0207-271-96	8810 Vineyard Avenue
0207-271-97	8705 & 8725 East 9th Street

EDR's February 19, 2019 Radius Map Report with GeoCheck®, which is included in Appendix G, identifies multiple database listings, summarized in Table 1, within ASTM-recommended search radii. In the interest of providing a concise review and making relevant information more accessible, the following discussion focuses on those database listings considered potentially relevant to the objectives of the subject Phase I ESA, specifically those pertaining to the subject site and to nearby properties with documented hazardous substance releases with the potential to have impacted the site. Other properties and database listings not considered indicative of a hazardous substance release, database listings for hydraulically downgradient properties, and database listings with "Completed-Case Closed" status have generally been screened out. It is noted in this regard that inclusion in the HAZNET or similar databases indicates that a facility generates hazardous waste, but the generator is following the proper manifest procedures. Similarly, the fact that USTs or ASTs are or were operated at a property and were registered with the state is not, in and of itself, of concern unless the tank(s) had leaked, in which case the property should be included in other databases.

6.2 TARGET PROPERTY LISTINGS

Eight of the ten addresses associated with the subject site are listed in one or more of the databases searched by EDR as follows:

Address	Company/Individual	Database	Comment
8847 9th St	Fernando A Rodriguez	HAZNET	Pertains to the disposal of 0.15 tons of waste oil and mixed oil in 2010.
		PEST LIC	Pertains to an active license to possess and use pesticides.
8729 9th St	Unnamed	CHMIRS	Report of damage to a sewer main with an excavator while completing storm drain installation. The incident resulted in a minor sewage release that was reportedly cleaned up.
8705 & 8725 9th St	24k Industrial Building	NPDES	Pertains to an NPDES permit for construction activities, with an active date between October 2015 and August 2016.
		CIWQS	Pertains to the regulation of discharges from a construction project.
	Summit Development Corporation	HAZNET	Pertains to the disposal of ACMs in 2016.
8817 Baker Ave	Rancho Cucamonga Property	HAZNET	Pertains to the disposal of ACMs in 2016.
8803 Baker Ave	Dennis Myskow	HAZNET	Pertains to the disposal of 0.608 tons of waste oil and mixed oil in 2010.
8830 Vineyard Ave	Scheu Steel Supply Company	FINDS	Pertains to the regulation of hazardous materials and wastes.
		HIST UST	Pertains to two former USTs at the site
		HAZNET	Pertains to the disposal of 0.2 tons of unspecified oil-containing waste in 2016
		San. Bern. Co. Permit.	Pertains to the regulation of hazardous materials and wastes generated at the site
		SWEEPS UST	Pertains to two former USTs at the site
		CA FID UST	Pertains to two former USTs at the site
8855 Baker Ave	Masco Contractor Services	San. Bern. Co. Permit.	Pertains to the regulation of hazardous materials and wastes generated at the site
	Columbia Ribbon Carbon Mfg Co	RCRA-SQG	Pertains to the regulation of hazardous materials and wastes generated at the site
		FINDS	Pertains to the regulation of hazardous materials and wastes generated at the site
		ECHO	Pertains to environmental compliance and enforcement history

In brief, the target property listings summarized above are consistent with the known history of the various parcels, and none suggest conditions or features beyond those documented elsewhere in this report.

6.3 Adjoining Properties to the North

The westernmost parcels of the subject site (8769 Baker Avenue and 8855 Baker Avenue) are bounded to the north by residential properties and a business complex (Figure 3). None of the residential properties are listed in any databases searched by EDR nor are they featured on the GeoTracker or EnviroStor websites. Only one business in the adjacent business complex, Kennametal at 8782 Lanyard Court, is listed in any of the databases searched by EDR. Specifically, Kennametal is listed in the San Bernardino County Permit database, indicating it is permitted by the SBCoFD Hazardous Materials Division to store hazardous materials and is

subject to the Emergency Planning and Community Right-to-Know Act, which requires a business using or storing hazardous materials in the workplace to provide information pertaining to said materials, such as material safety data sheets and inventory lists, to the local fire department or agency responsible for oversight. Avocet notes that inclusion in the San Bernardino County Permit database is not indicative of a hazardous substance release, and Avocet further notes that it appears that Kennametal no longer operates at 8782 Lanyard Court. Absent additional information, there is no indication that operations by Kennametal or any of the other businesses in the north-adjoining business park are likely to have impacted the subject site.

The easternmost parcels of the subject site (8705, 8725, 8729, and 8847 East 9th Street) are bounded to the north by East 9th Street, beyond which are residential properties and a series of small commercial buildings that appear to be occupied by a wholesale floral supplier, Roland's of California (aka Roland's Floral Supply, Inc.), at 8768 East 9th Street. None of the residential addresses or 8768 East 9th Street are listed in any of the databases searched by EDR, nor are they featured on the GeoTracker or EnviroStor websites. Absent additional information, there is no indication that operations by Roland's of California or any of the other businesses on the north side of East 9th Street are likely to have impacted the subject site.

Based on regional groundwater flow to the southwest, the properties on the intersection of Vineyard Avenue and East 9th Street are located directly upgradient of the subject site. The northwest corner of this intersection is occupied by the Vineyard West Mini Storage facility at 8646 Vineyard Avenue, and the northeast corner is occupied by Searing Industries, which operates a steel pipe and tube manufacturing facility. The southeast corner of the intersection is occupied by a new business complex with multiple tenants. Although the Searing Industries facility is listed in a few databases because it generates small quantities of hazardous waste, none of these properties appear in the GeoTracker or EnviroStor databases, and absent additional information, there is no indication that operations at any of them are likely to have impacted the subject site.

6.4 ADJOINING PROPERTIES TO THE SOUTH

The site is bounded to the south by a railroad track, across which are a series of nine automotive repair and maintenance shops along the north side of East 8th Street. These shops encompass 15 addresses (Table 1), all of which are listed in the San Bernardino County Permit database. Additionally, 8724 8th Street is listed in the RCRA-SQG database, which indicates that the business at that address generates generally less than 1,000 kilograms per month and that the wastes generated are being tracked by a regulatory agency. Three of the addresses (8560, 8580, and 8600 East 8th Street) are listed in the EDR Hist Auto database, which flags properties at which automobile repairs and related services are known or suspected to have occurred. This listing is consistent with the use of these properties for automotive repair businesses. However, none of the southern adjacent properties feature on the GeoTracker or EnviroStor websites or in any of the other databases maintained by local, state, and federal government agencies. Moreover, these south adjacent properties are all hydraulically downgradient of the subject site based on regional groundwater flow to the southwest.

A database listing for 1670 East 8th Street (on the south side of east 8th Street) is indicated to be Ontario Well #46. This well is not listed in the EDR summary of nearby water wells or public water systems and the address appears to be for a residential property, suggesting it may be erroneous. Moreover, Avocet could not discern the location of a well on the property from available aerial photographs. Regardless, groundwater occurs at around 250 feet bgs and there are no indications that releases of hazardous substances have occurred at the subject site that may have resulted in a downgradient well being impacted.

6.5 Adjoining Properties to the East and Northeast

The site is bounded to the east by the Cucamonga Creek drainage channel and, further south, by Vineyard Avenue. Beyond the drainage channel, on the southwest corner of Vineyard Avenue and East 9th Street, is a used car sales lot at 8730 Vineyard Avenue. Currently operated by Kiro Cars, the street address is listed in the San Bernardino County Permit database under Autohaus Motorsports, Inc. As previously discussed, however, inclusion in this database does not necessarily mean that a release of hazardous substances has occurred. Beyond Vineyard Avenue to the east of the site is a triangular area of undeveloped land. Absent additional information, there is no indication that operations to the east and northeast are likely to have impacted the subject site.

6.6 Adjoining Properties to the West

The site is bordered to the west by Baker Avenue and single-family homes. None of the properties to the west of the subject site are listed in the databases searched by EDR, nor are they featured on the GeoTracker or EnviroStor websites, which is consistent with the historical use of these properties for residential purposes. Absent additional information, there are no indications that activities at the properties to the west are likely to have impacted the subject site.

7.0 CONCLUSIONS

This section presents the conclusions of the Phase I ESA for the subject property in terms of sequentially numbered RECs, CRECs, HRECs, and OEFs.

7.1 RECOGNIZED ENVIRONMENTAL CONDITIONS (RECS)

ASTM (2013) defines RECs as:

> *". . . the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."*

Based on the subject Phase I ESA, Avocet has not identified any RECs at the site:

7.2 CONTROLLED RECS (CRECS)

ASTM (2013) defines CRECs as:

> *". . . resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."*

Based on the subject Phase I ESA, Avocet has not identified any CRECs at the site.

7.3 HISTORICAL RECS (HRECS)

ASTM (2013) defines HRECs 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."*

Based on the subject Phase I ESA, Avocet has identified two HRECs at the site, as follows:

- **HREC 1 – Patrini Shoes Former USTs.** Based on the limited information available, Patrini Shoes operated seven 2,000-gallon USTs, six for MEK and one

for MIBK, at 8855 Baker Avenue from 1980 through February 1990, at which time they were permanently closed by removal with oversight from SBCoDEHS and/or SBCoFD. The USTs appeared intact upon removal and none of the 14 confirmation soil samples, 2 from beneath each UST, contained detectable concentrations of MEK, MIBK, or any other VOCs, although the RLs were somewhat elevated. Although the results of the confirmation soil sample analyses were submitted to SBCoDEHS, it does not appear that an NFA letter was ever issued, although such letters were not always issued unless requested. As SBCoDEHS did not request any additional investigation, Avocet considers the former Patrini Shoes USTs an HREC rather than a REC; however, Avocet notes that the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of VOCs in soil vapor was not addressed.

- **HREC 2 – Scheu Steel Former USTs.** Based on the limited information available, Scheu Steel operated two USTs at 8830 Vineyard Avenue, a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline. It is not known when the USTs were installed, but they were permanently closed by removal, with oversight from SBCoFD, on April 27, 1990. Two confirmation soil samples from beneath the diesel UST were analyzed for TPH but none was detected. One confirmation soil sample from beneath the gasoline UST was analyzed for TPH-g and lead but none was detected. The confirmation soil sample from beneath the gasoline UST was also to have been analyzed for aromatic VOCs; however, Avocet has not been able to locate the results. As with the Patrini Shoes USTs, it does not appear that an NFA letter was ever issued for the two Scheu Steel USTs, but as SBCoDEHS did not request any additional investigation, Avocet considers them an HREC rather than a REC. Also as with the Patrini Shoes USTs, the available confirmation soil sampling data would not satisfy current UST closure requirements. For example, the possible presence of fuel oxygenates in soil and fuel oxygenates and other hydrocarbons in soil vapor were not addressed.

7.4 OTHER ENVIRONMENTAL FEATURES (OEFS)

OEFs are environmental conditions that do not meet the definition of a REC, CREC, or HREC but which warrant mention in the context of acquiring and redeveloping the site or a portion thereof. OEFs do not necessarily require any action to address their presence or condition but are identified for the sake of thoroughness and completeness. Based on the subject Phase I ESA, Avocet identified seven OEFs (sequentially numbered after the HRECs) at the site, as follows:

- **OEF 3 - Past Agricultural Land Use.** The site was used for agriculture from at least as far back as 1938 through the 1980s. Specifically, a majority of the site originally was planted with trees, assumed to have been citrus trees, and the southeastern part of the site was later replanted with what may have been grape vines. Pesticides were widely used throughout the United States for much of this

agricultural period; however, historical aerial photographs of the site do not show any ASTs that might have been used to store or mix pesticides onsite, nor do they show distressed vegetation such as might have resulted from pesticide overuse. If pesticides were used at the site and applied in accordance with the manufacturers' recommendations, they should not have significantly impacted near-surface soil in terms of the ongoing presence of residual pesticides and/or related degradation byproducts. Nevertheless, the possible presence of residual pesticides, including arsenic, in near-surface soil at the site is considered an OEF.

- **OEF 4 – Stockpiled Asphalt Grindings.** An estimated 750 cubic yards of asphalt grindings, reportedly from nearby roadwork, is stockpiled on the western portion of the Scheu Steel property at 8830 Vineyard Avenue. Scheu Steel reportedly uses the material on an as-needed basis to repair erosion damage and for dust suppression. Although Scheu Steel reportedly had a sample of the material analyzed to make sure it was not contaminated, it was unable to provide the results of the analyses or document the origin of the materials. Avocet notes that asphalt contains oil (TPH) and related organic compounds but would not normally be considered a hazardous waste. If it had to be transported offsite, for example because of unsuitable geotechnical properties, the stockpiled material would have to be properly characterized for waste profiling purposes.

- **OEF 5 – Green Waste.** Merchant Landscape currently stages green waste, including tree stumps, mulch, and trimmings from various offsite locations, on approximately 1.5 acres of the northern portion of its property at 8810 Vineyard Avenue. Trash and other debris are also scattered within the green waste piles. For geotechnical reasons, the green waste and embedded debris cannot be reused onsite and should be removed, preferably by Merchant Landscape, and either disposed or recycled offsite.

- **OEF 6 – POL and Pesticide Storage and Use, 8847 East 9th Street.** Merchant Landscape stores and uses POLs in its operations at 8847 East 9th Street and also stores and dispenses pesticides and herbicides. Merchant Landscape does not provide secondary containment for the stored materials, and stains on the concrete floor inside the building suggest that periodic, *de minimis* surface spills have occurred. There are no indications of larger or more significant spills and no stains were observed on the unpaved, exterior surfaces.

- **OEF 7 – POL Storage and Use, 8830 Vineyard Avenue.** Scheu Steel uses POLs, including cutting and hydraulic fluid, in its metal working operations at 8830 Vineyard Avenue. Staining on the concrete floor inside the main fabrication building suggests that periodic, *de minimis* surface spills have occurred. There are no indications of larger or more significant spills and no stains were observed on the unpaved, exterior surfaces.

- **OEF 8 – ACMs and LBP.** Most of the buildings at the site that predate the restrictions on using ACMs and LBP in construction have already been demolished and the associated debris removed. However, the single-family home at 8803 Baker Avenue, the radio station building at 8729 East 9th Street, the Merchant Landscape building at 8847 East 9th Street, the Ecoplast warehouse at 8855 Baker Avenue, and the Scheu Steel building at 8830 Vineyard Avenue all predate these restrictions and are still present. Avocet personnel did not observe any obvious hazardous conditions, such as damaged and friable ACMs, in these buildings, but recommends pre-demolition surveys and, if necessary, abatement for ACMs and other potentially hazardous building materials prior to general building demolition. It may also be prudent to sample some of the debris scattered throughout the site, particularly the short lengths of concrete pipe, for asbestos.

- **OEF 9 – Possible Historic Structure.** Avocet understands that the remaining residential structure at 8803 Baker Avenue, although in advanced disrepair, may be a historical structure, which could impose additional requirements related to, or preclude, its demolition.

7.5 VAPOR INTRUSION/VAPOR ENCROACHMENT

As part of the Phase I ESA, Avocet evaluated the potential presence of vapor intrusion conditions (VICs) and/or vapor encroachment conditions (VECs) at the subject site. A VIC can occur if VOCs are present in the vadose zone or in groundwater beneath a property at concentrations such that vapor could intrude into, and accumulate in, an overlying structure at concentrations hazardous to human health. Significant quantities of VOCs, specifically MEK and MIBK, were stored in USTs and used by Patrini Shoes, and Scheu Steel also stored and dispensed significant quantities of motor vehicle fuels. Although soil around the former Patrini Shoes and Scheu Steel USTs does not appear to have been impacted, the possible presence of VOCs in soil vapor was not addressed.

A VEC can occur if VOCs from an offsite source migrate beneath a property. Based on available information, none of the regional groundwater plumes in the vicinity underlie the subject site, nor are there any nearby sites with documented VOC releases that are likely to have impacted the subject site. As such, it appears unlikely a VEC exists at the subject site.

7.6 RECOMMENDATIONS

Based on the above, Avocet recommends a focused Phase II investigation at the site to address:

- The possible presence of residual pesticides, including arsenic, in near-surface soil at the site. This site-wide assessment should be conducted in accordance with current DTSC guidance.

- The possible presence of VOCs in soil and soil vapor in the vicinity of the former Patrini Shoes USTs at 8855 Baker Avenue. To address current UST closure

requirements, this assessment should include the collection and analysis of soil matrix samples from depths up to 40 feet bgs and the installation and sampling of nested soil vapor probes.

- The possible presence of fuel hydrocarbons, including fuel oxygenates and related VOCs, in soil and soil vapor in the vicinity of the former Scheu Steel USTs at 8830 Vineyard Avenue. To address current UST closure requirements, this assessment should include the collection and analysis of soil matrix samples from depths up to 40 feet bgs and the installation and sampling of nested soil vapor probes.

- The possible presence of POLs and/or pesticides in near-surface soil in the vicinity of the apparently *de minimis* spills, as indicated by stains on the concrete floors, at the Merchant Landscape and Scheu Steel facilities.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Philip Miller, P.E.
Principal

REGISTERED PROFESSIONAL ENGINEER
PHILIP MILLER
C 42600
CIVIL
STATE OF CALIFORNIA

Signed and sealed June 14, 2019

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Tables

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Table 1
EDR Database Listings
Vineyard Avenue and 9th Street
Rancho Cucamonga, California

Site Name	Address	Database	Distance (miles)	Direction	With Respect to Groundwater	Discussed Further
Fernando A Rodriguez	8847 9th St	HAZNET, PEST LIC	0.000	NE	TP	Yes
	8729 9th Street Cross Of Vineyard Ave.	CHMIRS	0.000	NNE	TP	Yes
24k Industrial Building Summit Development Corporation	8705 & 8725 9th Street	NPDES, CIWQS, HAZNET	0.000	N	TP	Yes
Rancho Cucamonga Property	8817 Baker Ave	HAZNET	0.000	W	TP	Yes
Dennis Myskow	8803 Baker Ave	HAZNET	0.000	W	TP	Yes
Scheu Steel Supply Company	8830 Vineyard Ave	HIST UST, CA FID UST, SWEEPS UST, FINDS, HAZNET, San Bern. Co. Permit, FINDS	0.000	E	TP	Yes
Masco Contractor Services Columbia Ribbon Carbon Mfg Co	8855 Baker Ave	San Bern. Co. Permit, RCRA-SQG	0.000	WSW	TP	Yes
Kennametal	8782 Lanyard Ct	San Bern. Co. Permit	0.018	NW	Upgradient	Yes
8th St Collision 8th Street Body Shop	8540 8th St	San Bern. Co. Permit	0.025	WSW	Downgradient	Yes
The Pit Stop Auto Service	8680 8th St	San Bern. Co. Permit	0.026	WSW	Downgradient	Yes
The Autoshop Howards Car Craft	8724 8th St	San Bern. Co. Permit, RCRA-SQG	0.026	SE	Downgradient	Yes
Traynor's Volvo	8600 8th St A	San Bern. Co. Permit, EDR Hist Auto	0.026	SW	Downgradient	Yes
A And A Auto Body	8760 8th St	San Bern. Co. Permit	0.027	ESE	Downgradient	Yes
Highland Auto, Air & Radiator Quality Transmission Earls Automotive Repair	8560 8th St Unit A	San Bern. Co. Permit, EDR Hist Auto	0.028	WSW	Downgradient	Yes
Performance Honda Service Prima Auto Repair	8580 8th St	EDR Hist Auto, San Bern. Co. Permit	0.028	WSW	Downgradient	Yes
Ruben's Auto Collision Center B & J's All Tune & Lube	8660 8th St	San Bern. Co. Permit	0.029	SW	Downgradient	Yes
Bertino Automotive Services	8880 8th St	San Bern. Co. Permit	0.031	ESE	Downgradient	Yes
Auto Tech Services	8808 8th St	San Bern. Co. Permit	0.038	ESE	Downgradient	Yes
Oshiro's Automotive	8764 8th St	San Bern. Co. Permit	0.038	SE	Downgradient	Yes
Reliable Smog & Auto Repair	8786 8th St	San Bern. Co. Permit	0.038	SE	Downgradient	Yes
Citywide Auto Repair	8820 8th St	San Bern. Co. Permit	0.038	ESE	Downgradient	Yes
Al's Garage	8822 8th St	San Bern. Co. Permit	0.038	ESE	Downgradient	Yes
Kb Complete Auto Repair	8846 8th St	San Bern. Co. Permit	0.039	ESE	Downgradient	Yes

AVOCET ENVIRONMENTAL, INC.

Table 1
EDR Database Listings
Vineyard Avenue and 9th Street
Rancho Cucamonga, California

Site Name	Address	Database	Distance (miles)	Direction	With Respect to Groundwater	Discussed Further
Autohaus Motorsports Inc	8730 Vineyard Ave	San Bern. Co. Permit	0.040	ENE	Upgradient	Yes
Ontario Well #46	1670 E 8th St	San Bern. Co. Permit	0.045	WSW	Downgradient	Yes
Ontario Seventh-day Adventist	1722 East 8th Street	HIST UST	0.045	SSW	Downgradient	No
Advanced Auto Tech Wilson & Bell Auto Service Dealer Alternative Solutions, Llc	8747 Vineyard Ave	San Bern. Co. Permit	0.059	ENE	Upgradient	No
Mobil Industrial Coating	1848 N Placer Ave	EDR Hist Auto	0.070	SE	Downgradient	No
Empire Cleaners	1859 N Vineyard Ave	EDR Hist Cleaner	0.107	ESE	Crossgradient	No
Peralez, Frank J	1829 N Baker	CA FID UST, SWEEPS UST	0.112	WSW	Downgradient	No
Imc Branch #17	8840 Flower Rd Ste 130	San Bern. Co. Permit	0.113	E	Upgradient	No
Avery Intl Venture Ctr	8989 Ninth St	RCRA-SQG	0.168	ENE	Upgradient	No
Armando Rodriguez Dba A Rodriguez Transp	1758 E Olive St	RCRA NonGen / NLR, HWT	0.182	S	Downgradient	No
Transcendia, Inc.	9000 9th St Ste 140	San Bern. Co. Permit	0.197	ENE	Upgradient	No
Searing Industries, Inc.	8901 Arrow Rte	RCRA-SQG, San Bern. Co. Permit,	0.216	NE	Upgradient	No
Earth Protection Services Inc	8747 Flower St	RCRA NonGen / NLR	0.227	ENE	Upgradient	No
Posadas Trucking	8607 Comet Street	HWT	0.235	NW	Crossgradient	No
M.s. Food Store	8514 Vineyard Ave	San Bern. Co. Permit, UST	0.238	NNE	Upgradient	No
6th Street Continuation High School	Vineyard Ave./7th Street	ENVIROSTOR	0.334	S	Crossgradient	No
Chaffey Stem High School	Nw Of Int. E. 6th St. & N. Vineyard Ave.	ENVIROSTOR	0.377	SSE	Crossgradient	No
Avery Intl	9292 Ninth St	LUST, HIST CORTESE, ENVIROSTOR	0.442	ENE	Upgradient	No
Jim's Texaco	8715 Grove	LUST, HIST CORTESE	0.484	W	Crossgradient	No
Upland Thrall Hall Usar	1284 E. Seventh Street	ENVIROSTOR	0.566	WSW	Crossgradient	No
Intermetro Industries	9393 Arrow Highway	ENVIROSTOR	0.660	ENE	Crossgradient	No
New Middle School No. 35	Sixth Street/amador Avenue	ENVIROSTOR	0.701	SW	Crossgradient	No
Hellman Elementary School	6th Street/hellman Avenue	ENVIROSTOR	0.793	SE	Crossgradient	No
Former Town Center Cleaners	9116 East Foothill Boulevard, Suite 102	ENVIROSTOR	0.910	NNE	Crossgradient	No
Western Moldings, Inc.	1111 East 8th Street	ENVIROSTOR	0.970	W	Crossgradient	No

Notes:
Gray shading indicates database listing is hydraulically downgradient or crossgradient and/or refers to a closed case.
Blue shading indicates database listing does not necessarily indicate a release or contamination.

Figures

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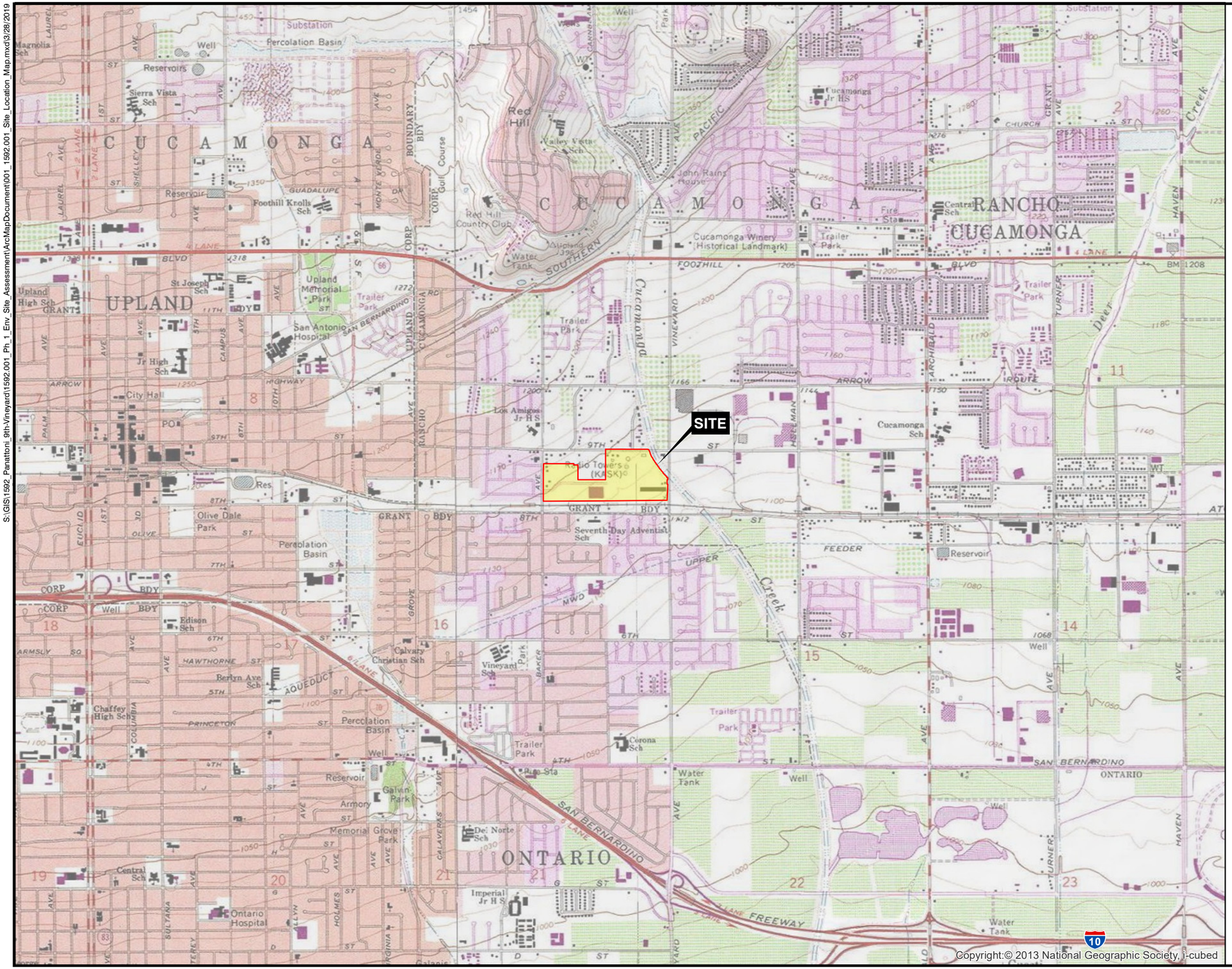
S:\GIS\1592_Panattoni_9th-Vineyard\1592.001_Ph_1_Env_Site_Assessment\ArcMapDocument\001_1592.001_Site_Location_Map.mxd\3/28/2019



VICINITY MAP

0 1,000 2,000 4,000 FEET

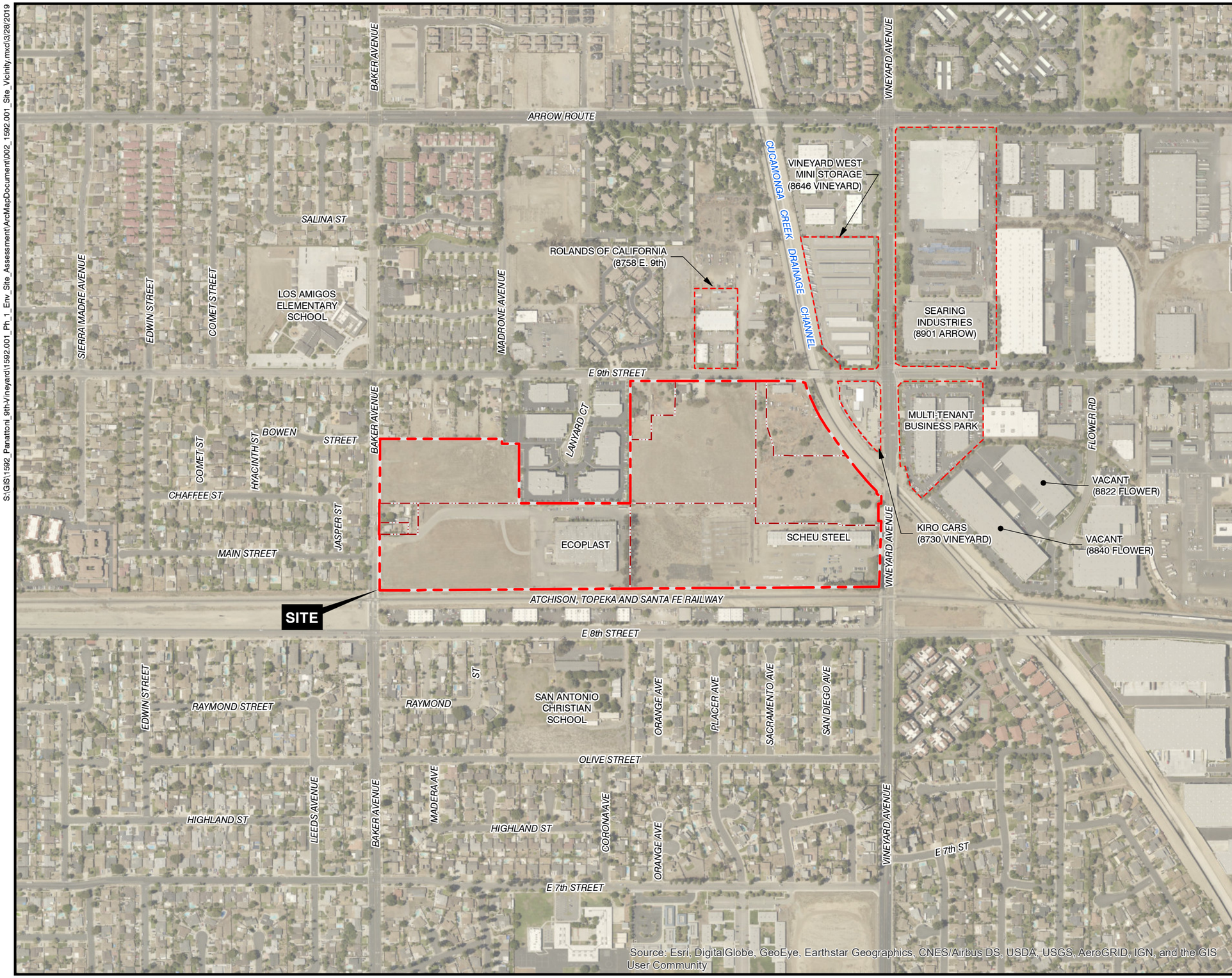
FIGURE 1

SITE LOCATION MAP

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1592_Panattoni_9thVineyard\1592.001_Ph_1_Env_Site_Assessment\ArcMapDocument\002_1592.001_Site_Vicinity.mxd\3/28/2019



N

EXPLANATION

SITE BOUNDARY

PARCEL BOUNDARY

0 500 1,000 Feet

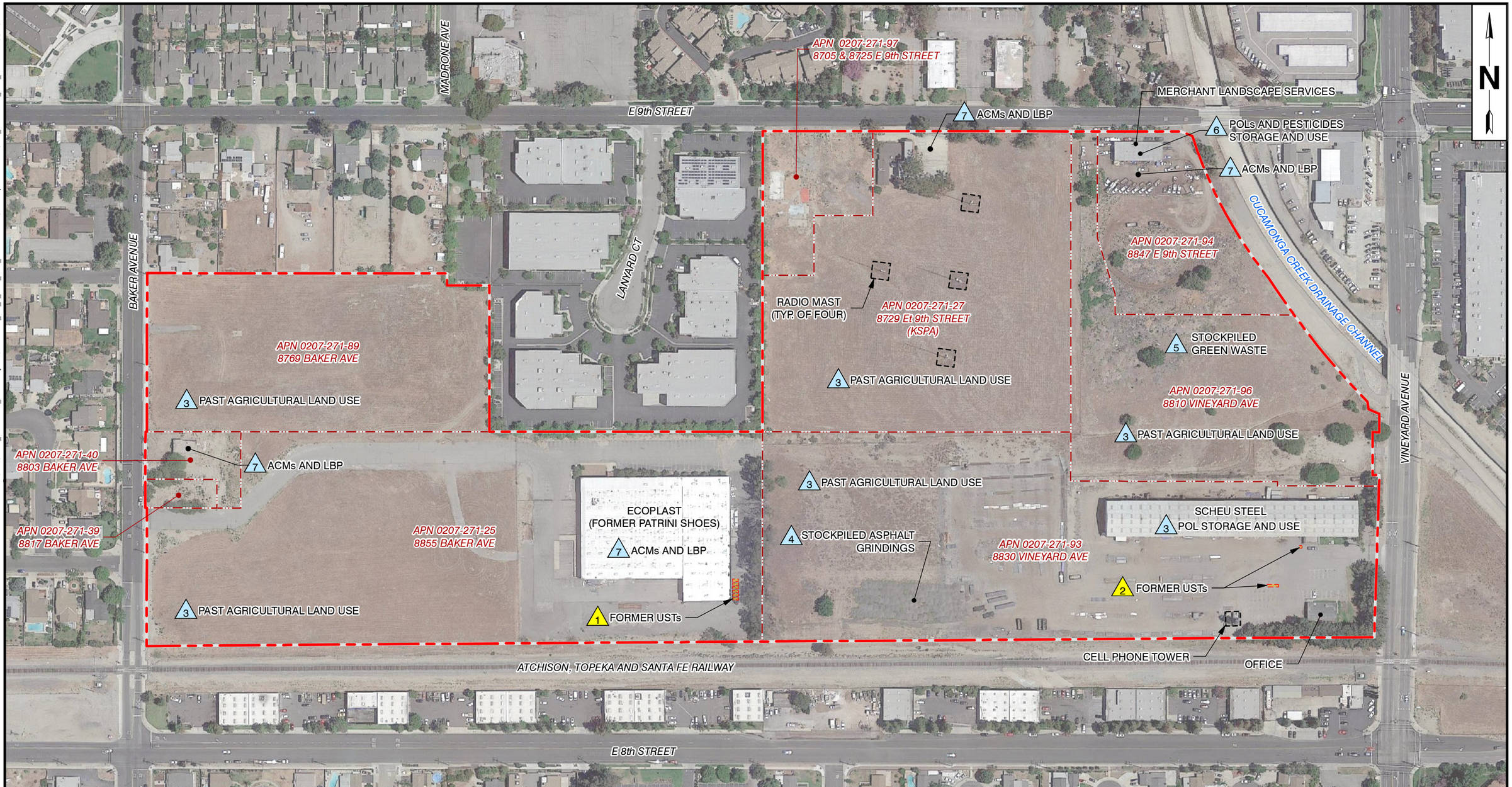
FIGURE 2

SITE AND VICINITY

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1592_Panattoni_9thVineyard\1592.001_Ph_1_Env_Site_Assessment\ArcMapDocument\003_1592.001_Site_Plan.mxd\3/29/2019



EXPLANATION

- SITE BOUNDARY
- PARCEL BOUNDARY
- FORMER UST (APPROXIMATE LOCATION)
- 1 HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION (hREC)
- 3 OTHER ENVIRONMENTAL FEATURE (OEF)

0 200 400 Feet

REFERENCE:
USGS AERIAL PHOTOGRAPH
DATED: JUNE 8, 2018

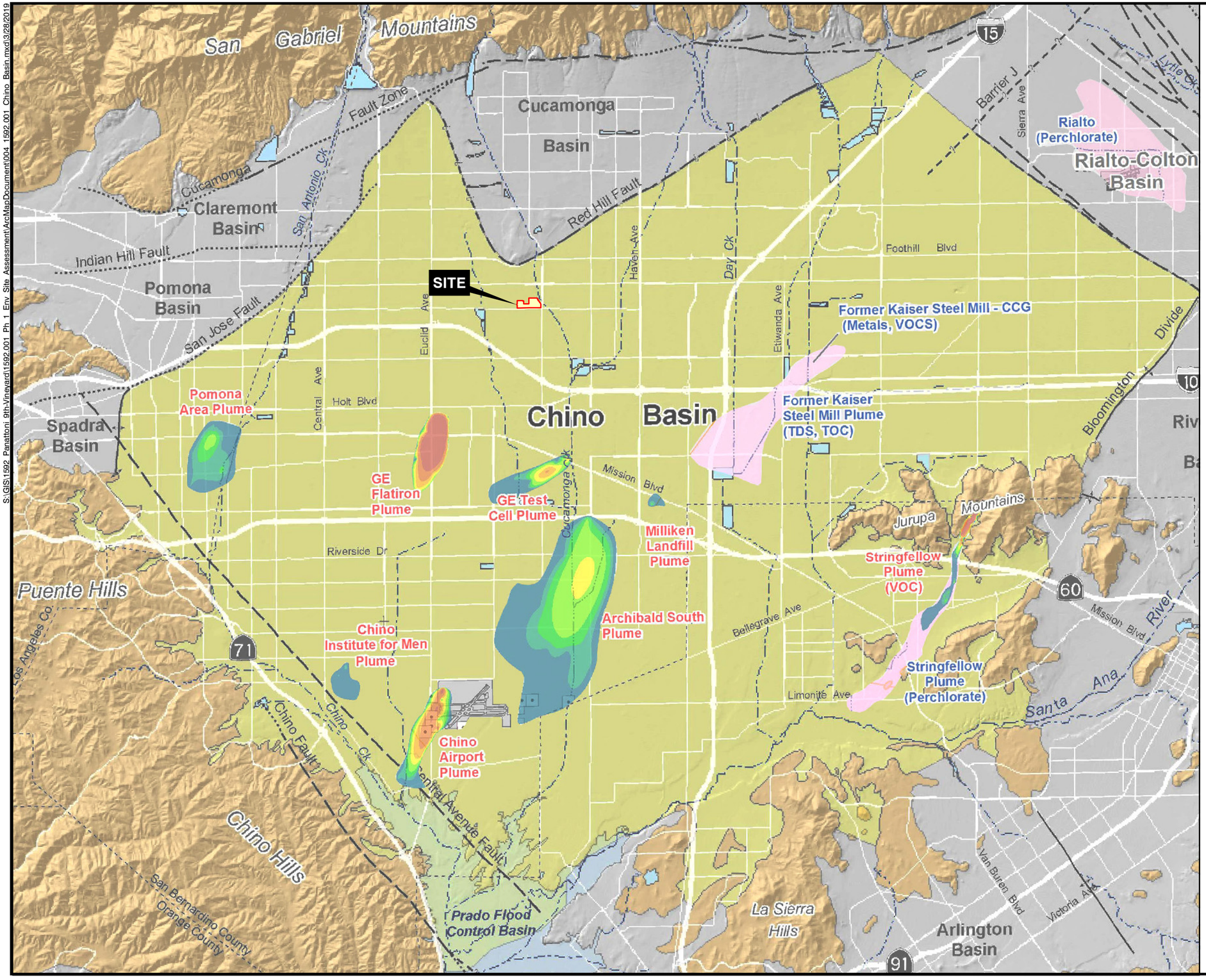
FIGURE 3

SITE PLAN

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1592_Panattoni_9th-Vineyard\1592.001_Ph_1_Env_Site_Assessment\ArcMapDocument\004_1592.001_Chino_Basin.mxd\3/28/2019



N

Main Features

Chino Basin

Geology

Water-Bearing Sediments

Quaternary Alluvium

Consolidated Bedrock

Undifferentiated Pre-Tertiary to Early Pleistocene Igneous, Metamorphic, and Sedimentary Rocks

Faults & Groundwater Divides

Location Certain
Location Approximate
Location Concealed
Location Uncertain
Groundwater Divide

Other Features

Flood Control and Conservation Basins

VOC Concentration (ug/L)

- > 0 and ≤ 5
- > 5 and ≤ 10
- > 10 and ≤ 20
- > 20 and ≤ 50
- > 50 and ≤ 100
- > 100 and ≤ 200
- > 200 and ≤ 500
- > 500

The VOC plumes shown on this map are generalized illustrations of the estimated spatial extent of TCE or PCE, based on maximum concentration measured over the five-year period of August 2007 to July 2012. The VOC plume illustrations were created with the Geostatistical Analyst extension in ESRI's ArcView 10.1 using an ordinary kriging interpolation model with model input parameter estimation and optimization performed by semivariogram analysis in Golden Software's Surfer 8.09. Interpretations of plume extent and boundary delineation were made based on measured concentrations and local groundwater flow patterns as predicted by the Chino Basin groundwater flow model.

Other plumes (labeled by name and dominant contaminant)

SOURCES:
1. WILDERMUTH ENVIRONMENTAL, INC. FIGURE 2-1, CHINO BASIN AND OTHER SURROUNDING GROUNDWATER BASINS. FILE: FIGURE 2-1.MXD. DATED: JUNE 16, 2003
2. WILDERMUTH ENVIRONMENTAL, INC. EXHIBIT 44, DELINEATION OF GROUNDWATER CONTAMINATION PLUMES AND POINT SOURCES OF CONCERN.

0 1 2 4 Miles

FIGURE 4

CHINO BASIN

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

Appendix A

EDR Historical Topo Map Report

AVOCET
ENVIRONMENTAL, INC.

Vineyard Avenue and 9th Street

Vineyard Avenue and 9th Street

Rancho Cucamonga, CA 91730

Inquiry Number: 5567027.4

February 19, 2019

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

02/19/19

Site Name:	Client Name:
Vineyard Avenue and 9th Stree	Avocet Environmental, Inc.
Vineyard Avenue and 9th Stree	1 Technology Drive Suite C515
Rancho Cucamonga, CA 9173	Irvine, CA 92618-0000
EDR Inquiry # 5567027.4	Contact: Jessica Satterlee

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Avocet Environmental, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	1592.001	**Latitude:**	34.09333 34° 5' 36" North
Project:	Vineyard Avenue and 9th Stree	**Longitude:**	-117.615461 -117° 36' 56" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	443225.34
		UTM Y Meters:	3772675.23
		Elevation:	1136.00' above sea level

Maps Provided:

1897	1954
1900	1966, 1967
1903	1973
1933	1976
1940	1981
1941, 1942	2012
1944	
1953, 1954	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1897 Source Sheets

Cucamonga
1897
15-minute, 62500

1900 Source Sheets

Cucamonga
1900
15-minute, 62500

1903 Source Sheets

Cucamonga
1903
15-minute, 62500

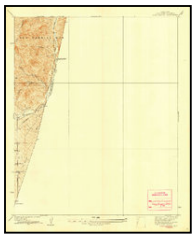
1933 Source Sheets

Ontario
1933
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1940 Source Sheets



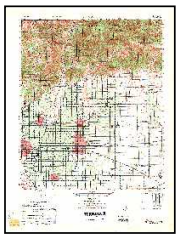
Evey Canyon
1940
7.5-minute, 20000

1941, 1942 Source Sheets

GUASTI VICINITY
1941
7.5-minute, 31680

Ontario and Vicinity
1942
7.5-minute, 31680

1944 Source Sheets



CUCAMONGA
1944
15-minute, 50000

1953, 1954 Source Sheets

Guasti
1953
7.5-minute, 24000
Aerial Photo Revised 1952

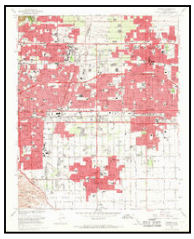
Ontario
1954
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1966, 1967 Source Sheets

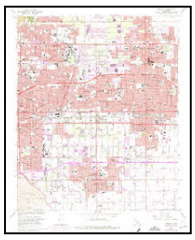
Guasti
1966
7.5-minute, 24000
Aerial Photo Revised 1966



Ontario
1967
7.5-minute, 24000
Aerial Photo Revised 1966

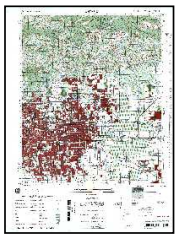
1973 Source Sheets

Guasti
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Ontario
1973
7.5-minute, 24000
Aerial Photo Revised 1973

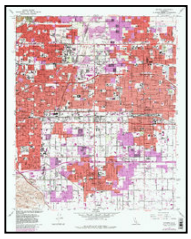
1976 Source Sheets



ONTARIO
1976
15-minute, 50000

1981 Source Sheets

Guasti
1981
7.5-minute, 24000
Aerial Photo Revised 1978



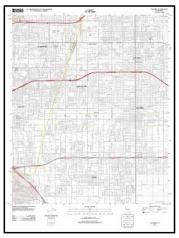
Ontario
1981
7.5-minute, 24000
Aerial Photo Revised 1978

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

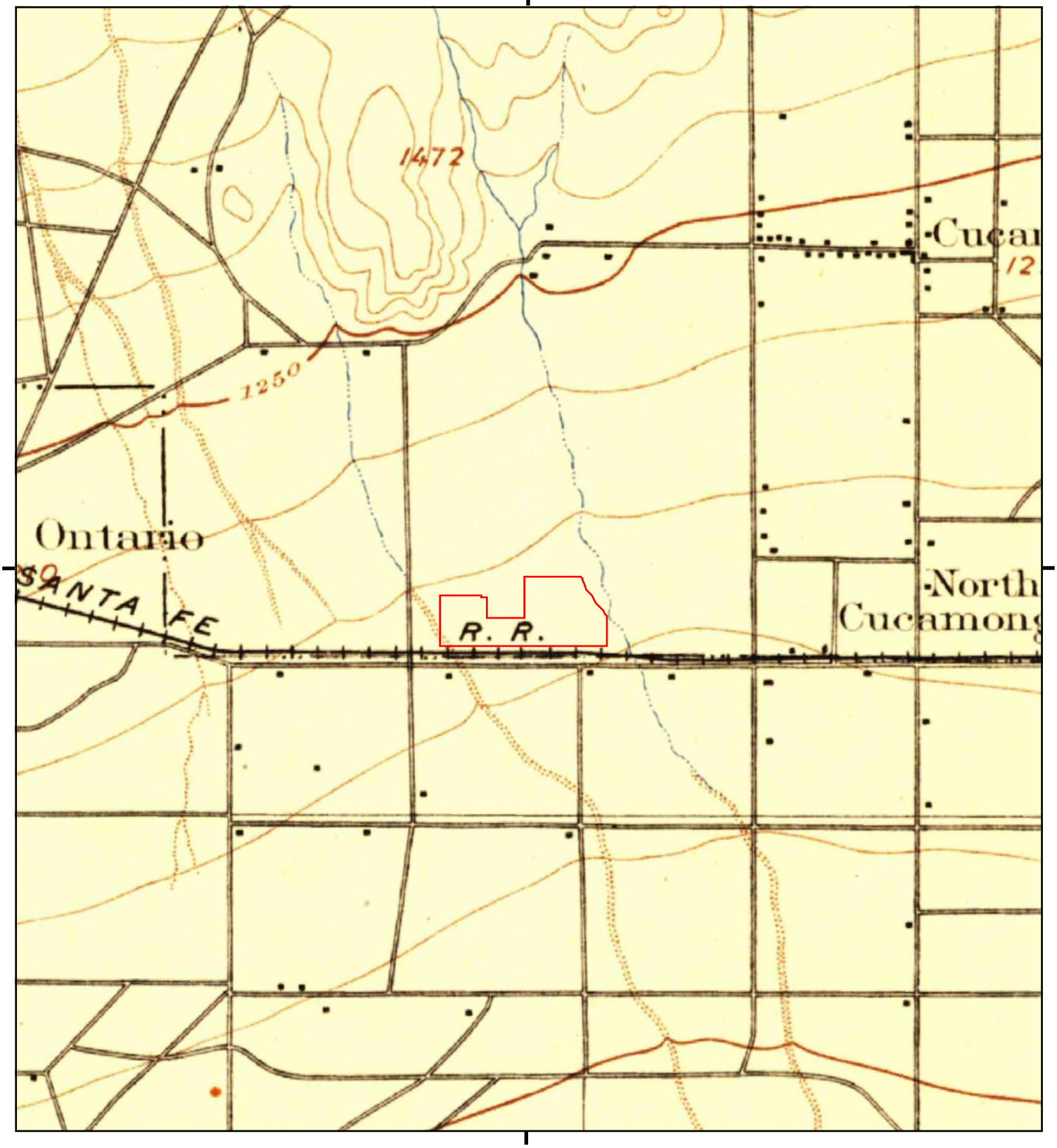
Guasti
2012
7.5-minute, 24000



Ontario
2012
7.5-minute, 24000

Historical Topo Map

1897



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

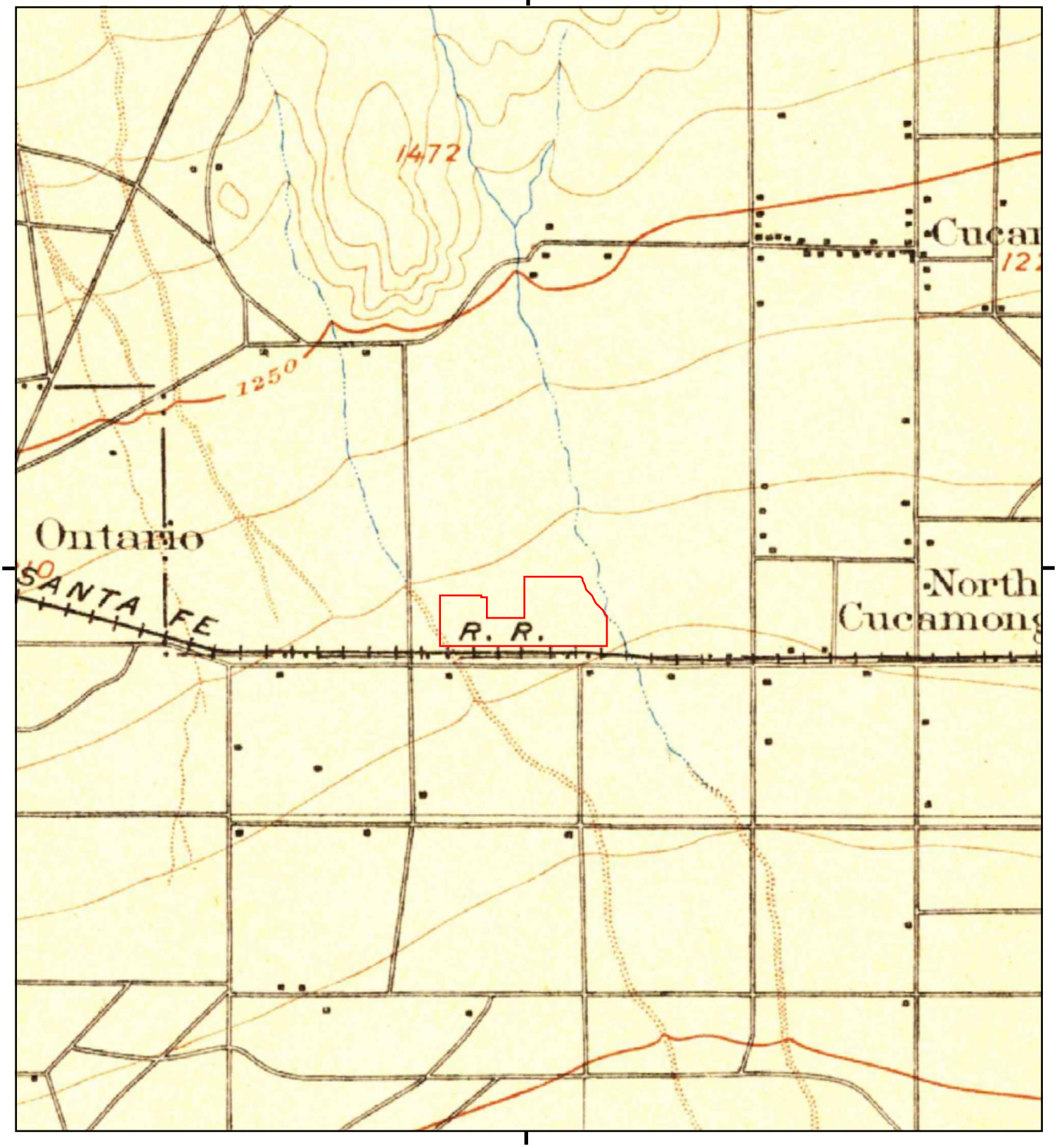
TP, Cucamonga, 1897, 15-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1900



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

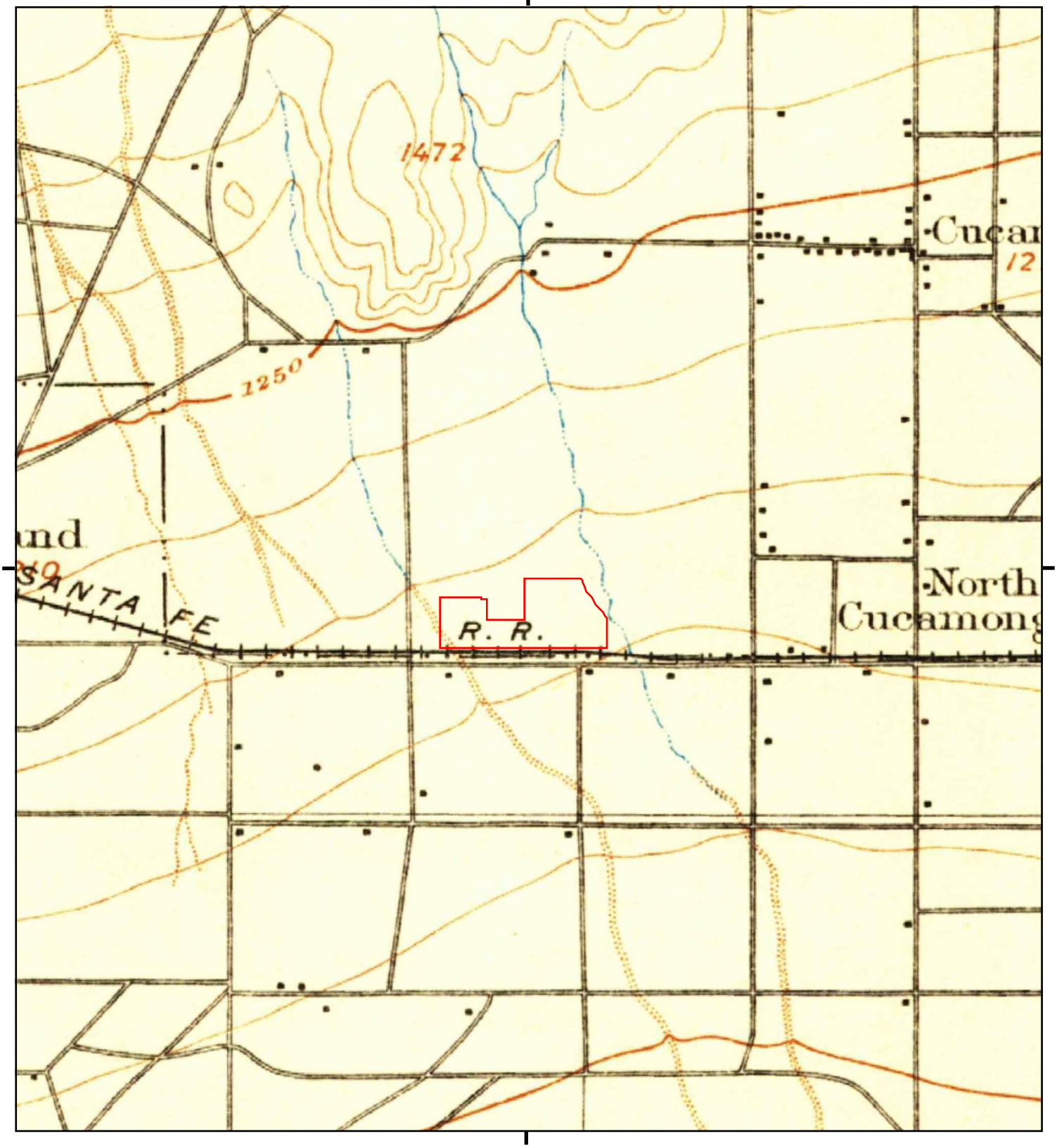
TP, Cucamonga, 1900, 15-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1903



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NW N NE
W E
SW S SE

TP, Cucamonga, 1903, 15-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

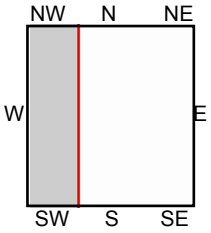
N

Historical Topo Map

1933

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



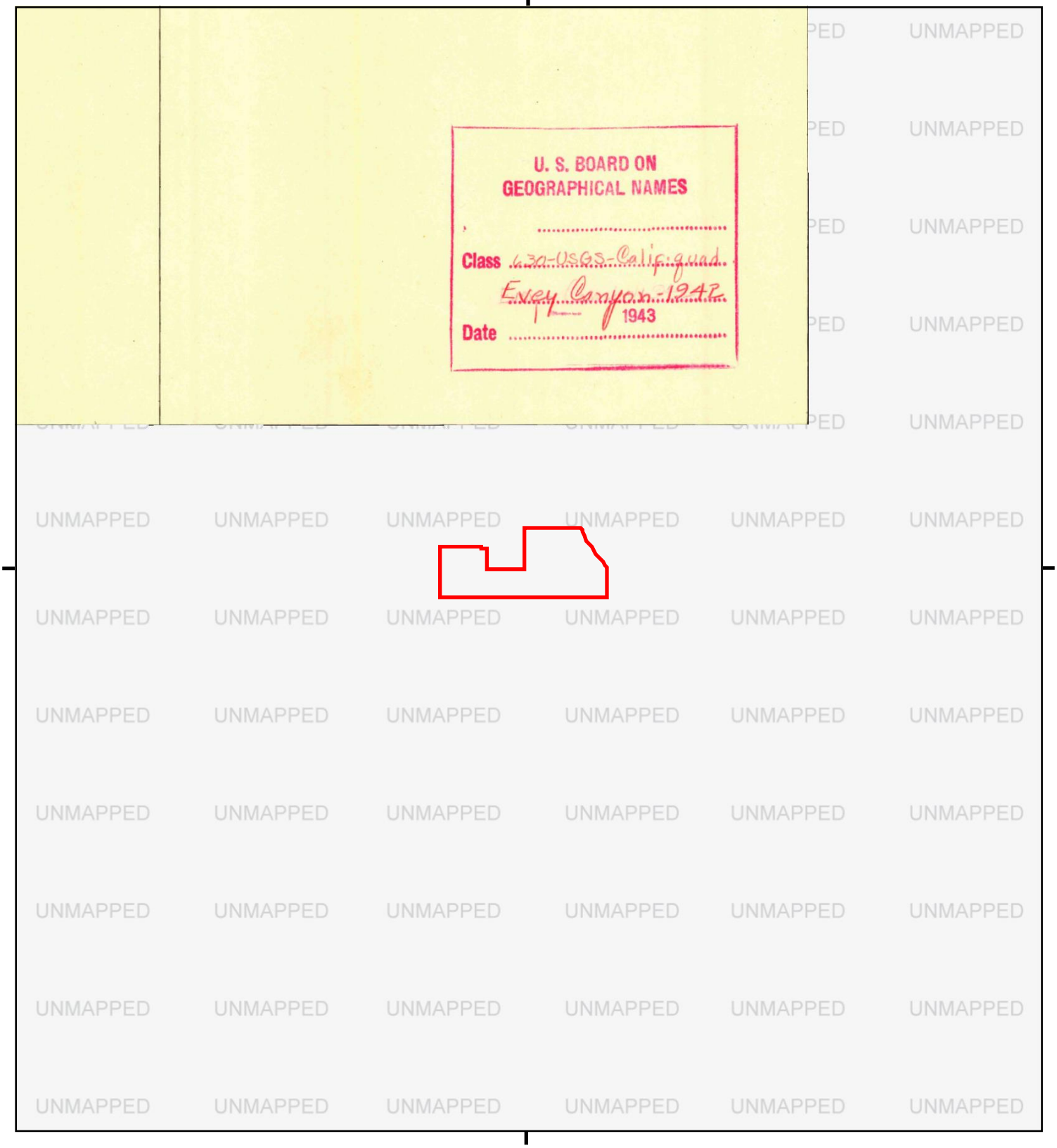
W, Ontario, 1933, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1940



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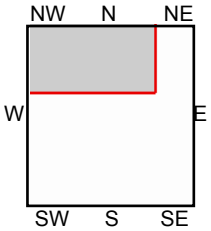


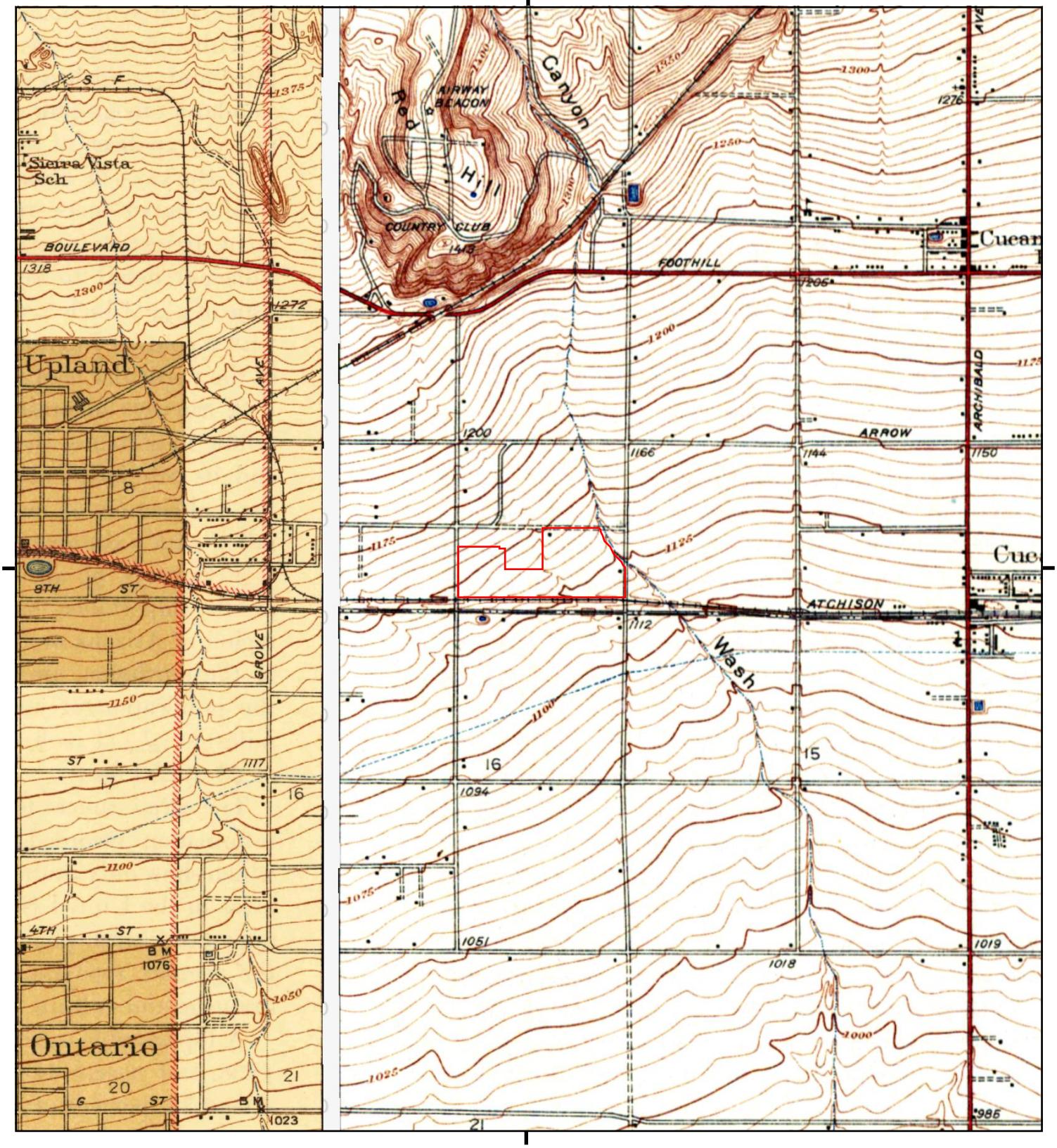
NW, Evey Canyon, 1940, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1941, 1942



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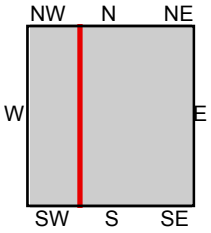


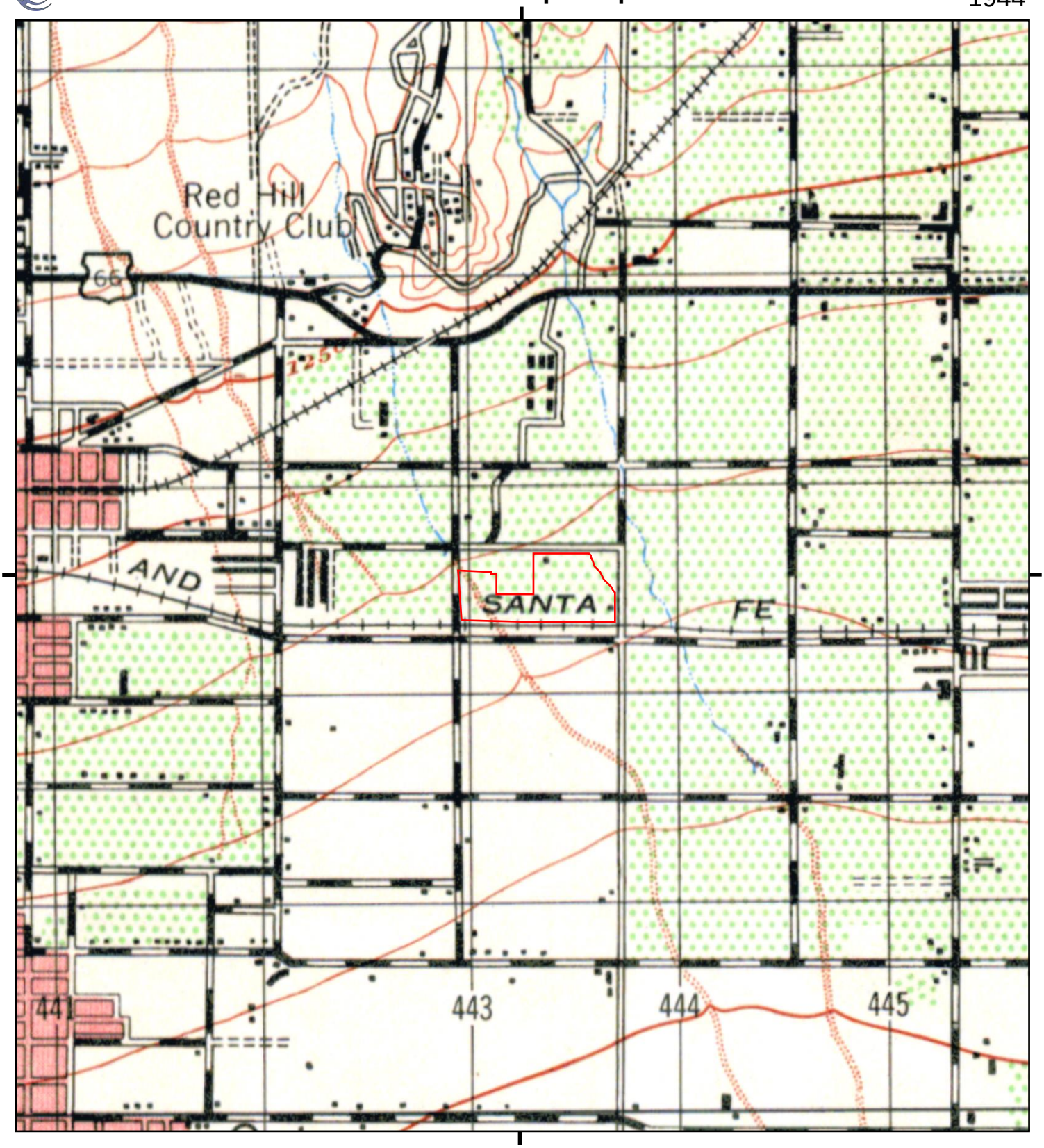
TP, GUASTI VICINITY, 1941, 7.5-minute
W, Ontario and Vicinity, 1942, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1944



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

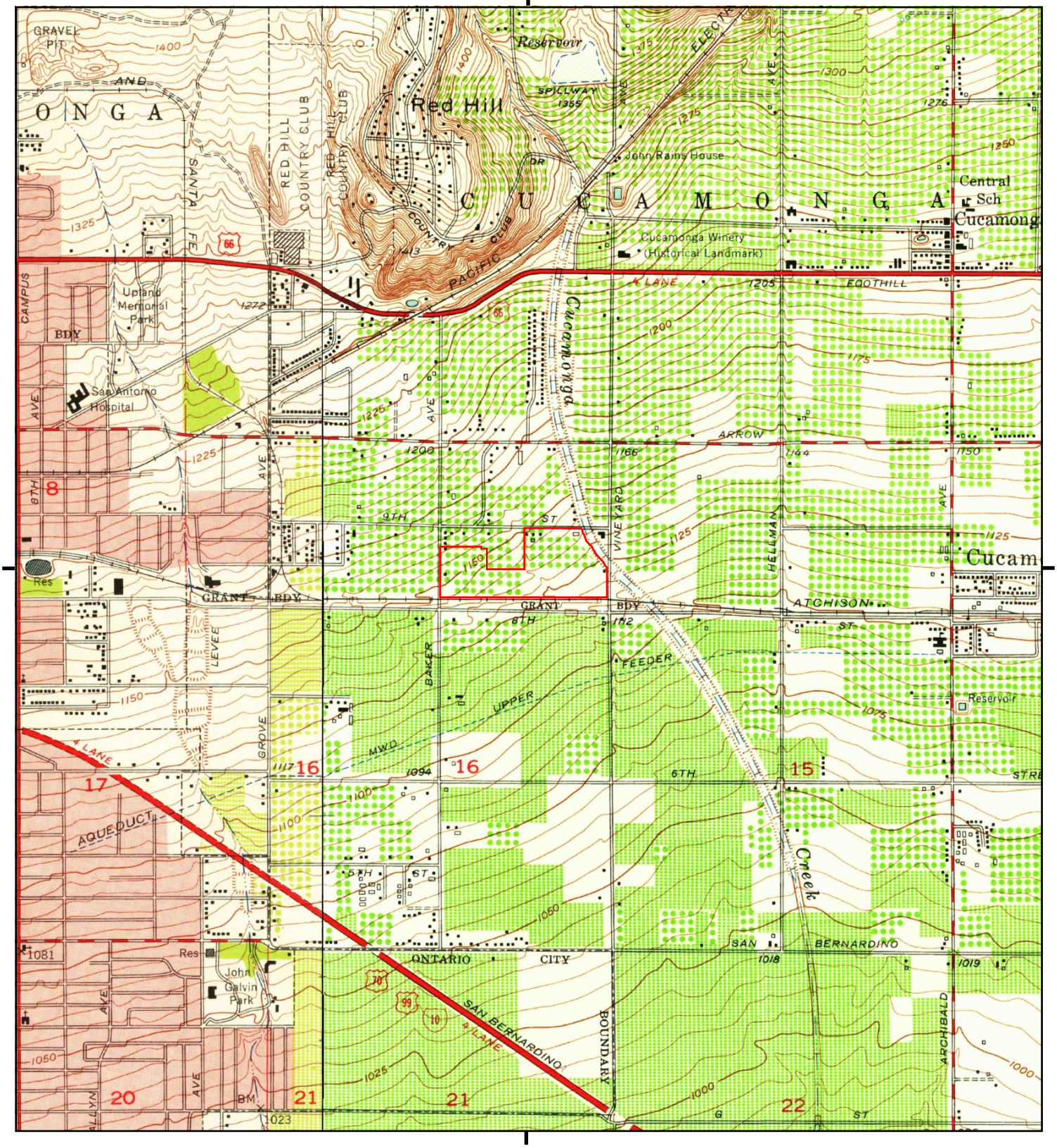
TP, CUCAMONGA, 1944, 15-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1953, 1954



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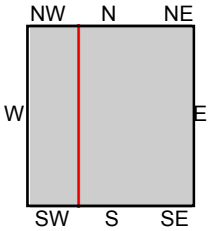


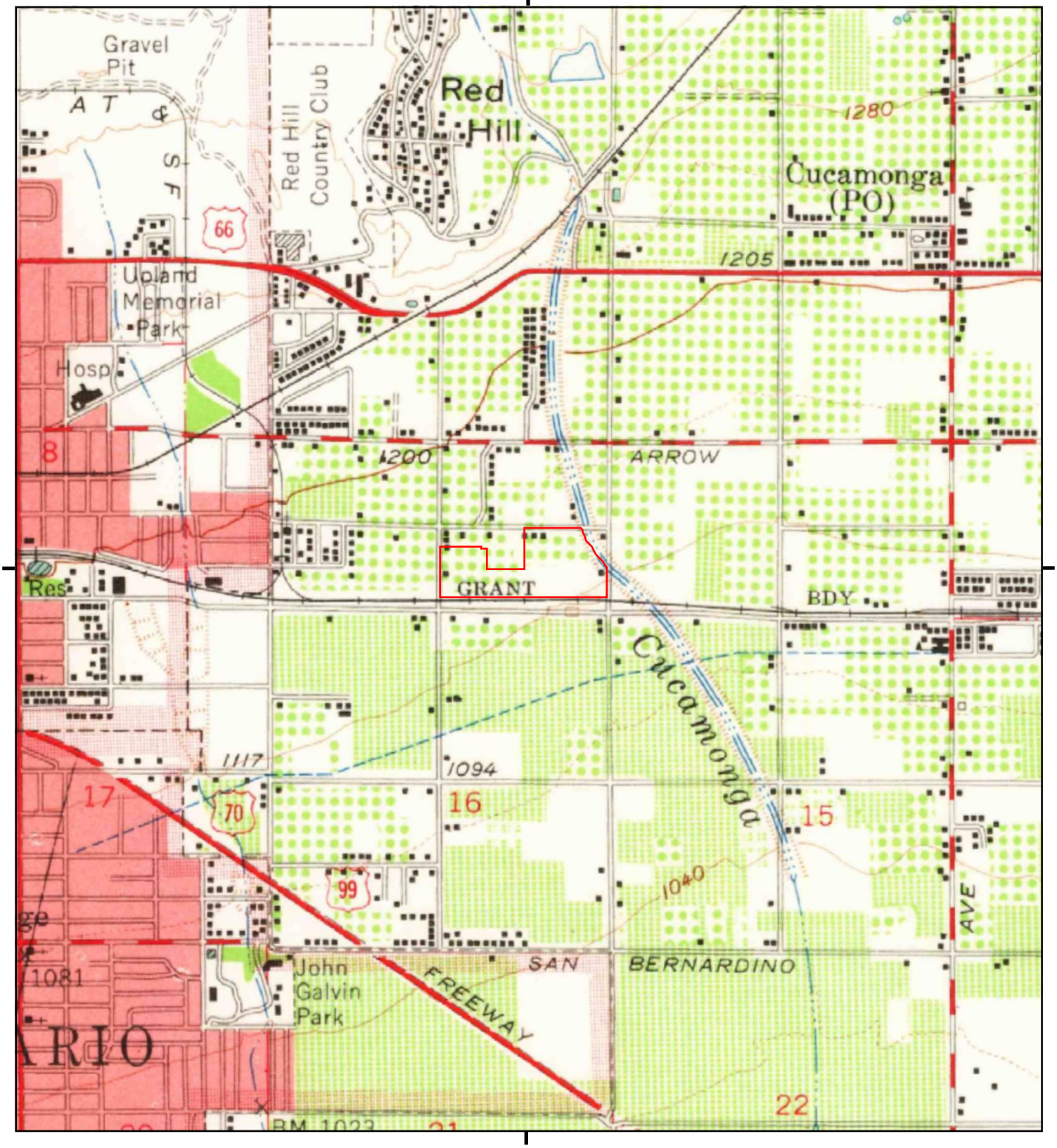
TP, Guasti, 1953, 7.5-minute
SW, Ontario, 1954, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

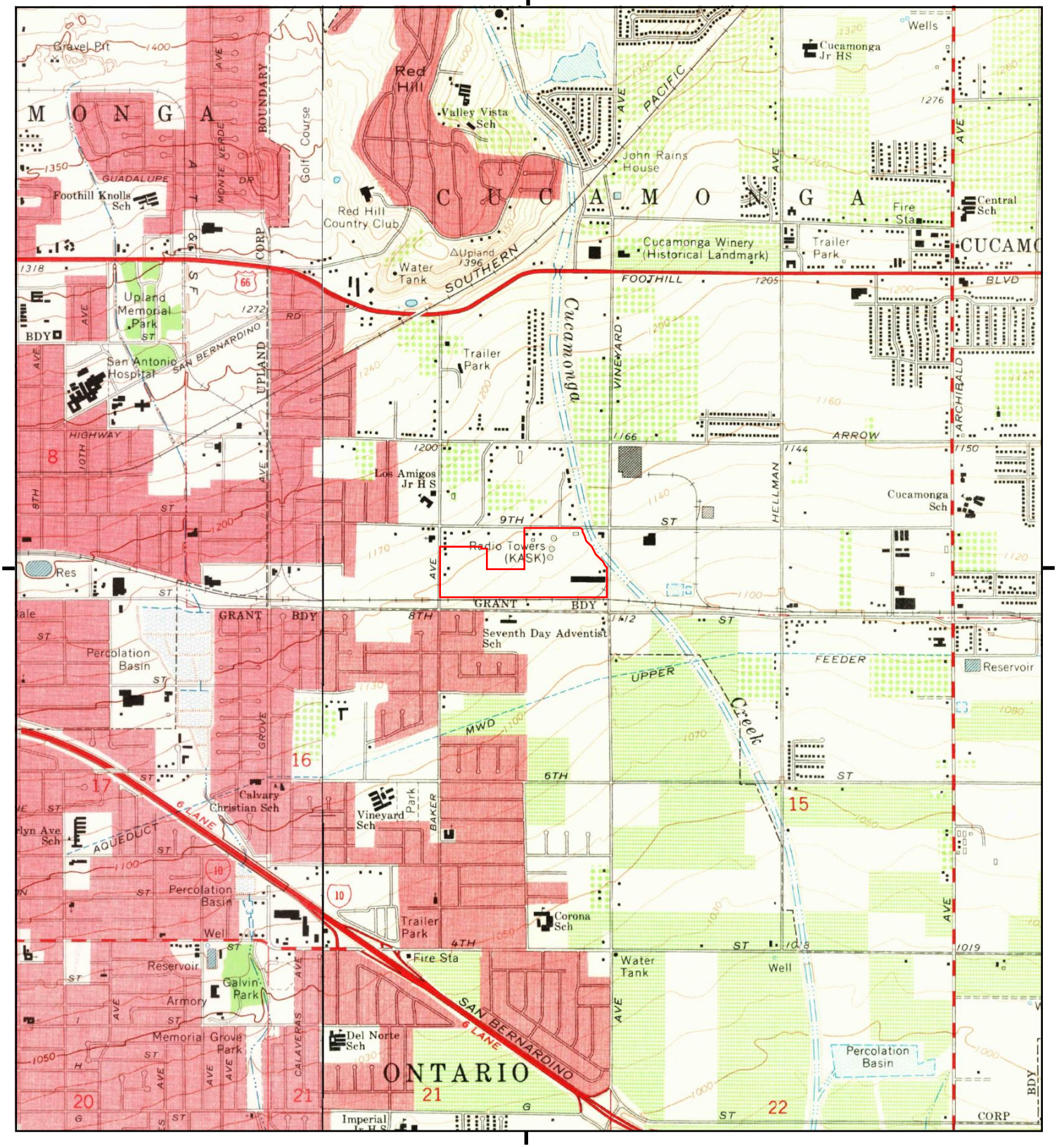
TP, Ontario, 1954, 15-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1966, 1967



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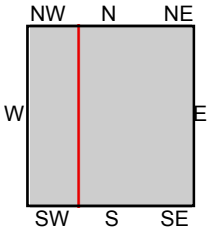


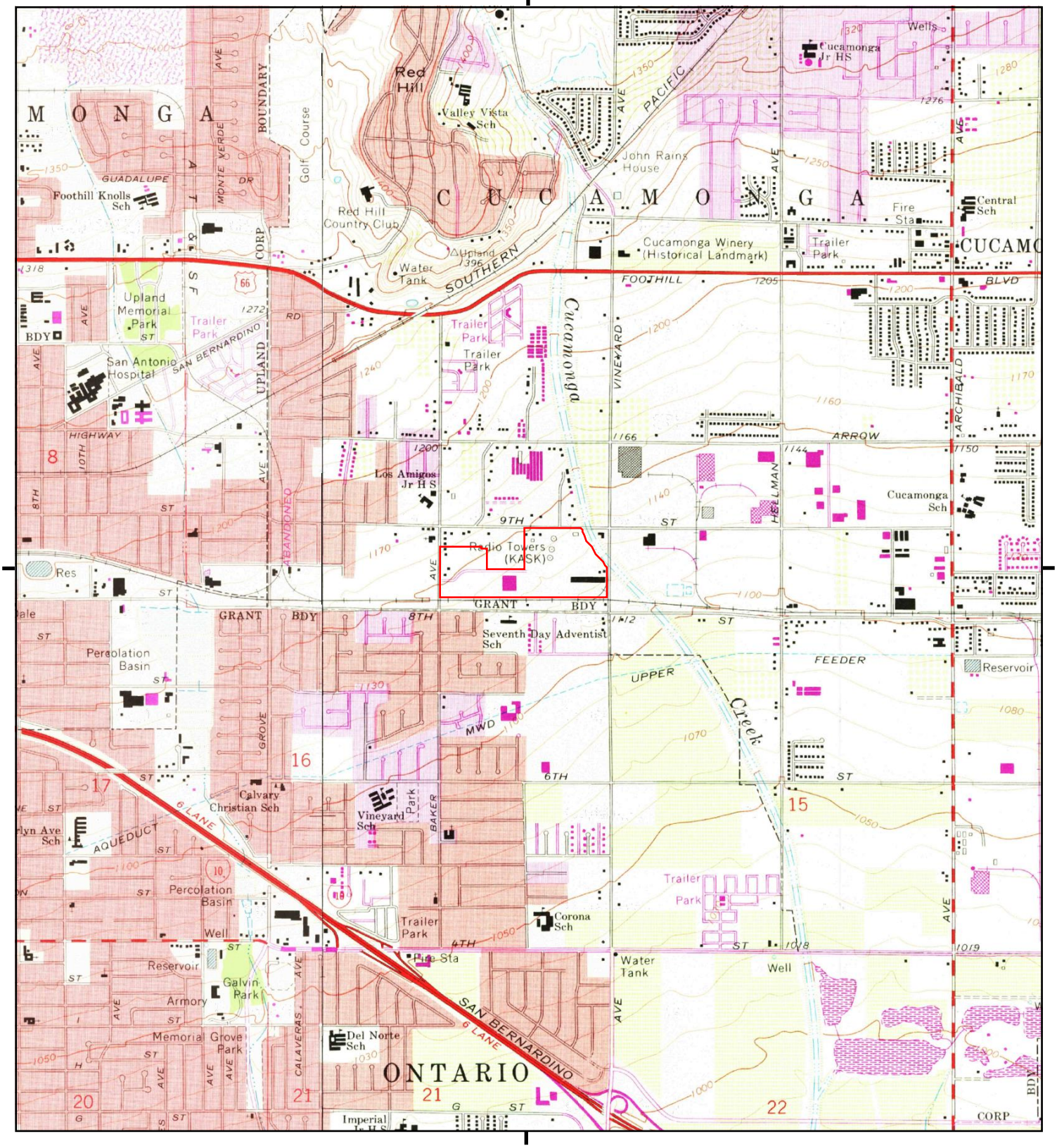
TP, Guasti, 1966, 7.5-minute
SW, Ontario, 1967, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1973



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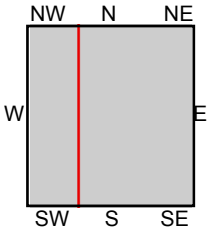


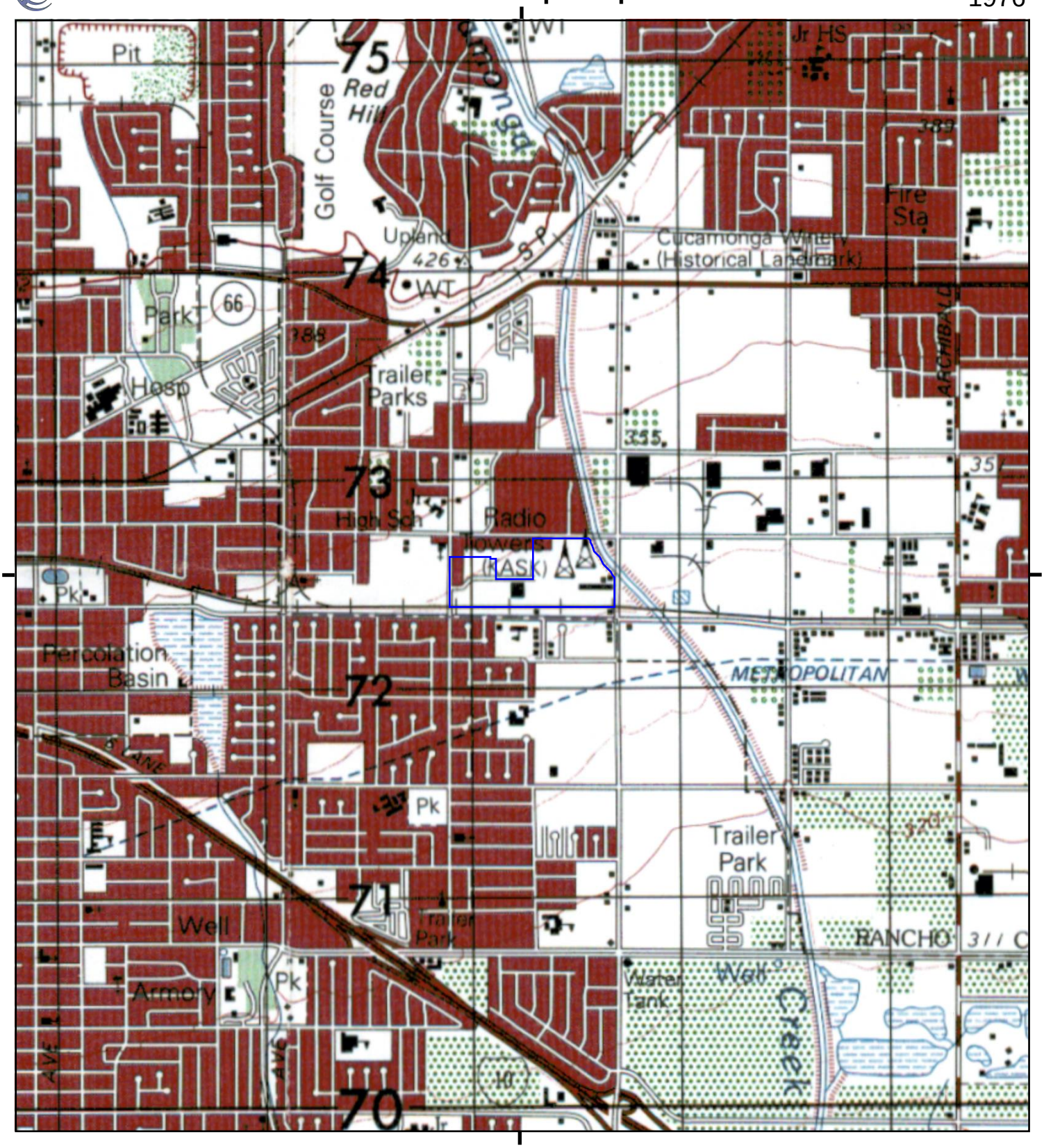
TP, Guasti, 1973, 7.5-minute
SW, Ontario, 1973, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1976



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

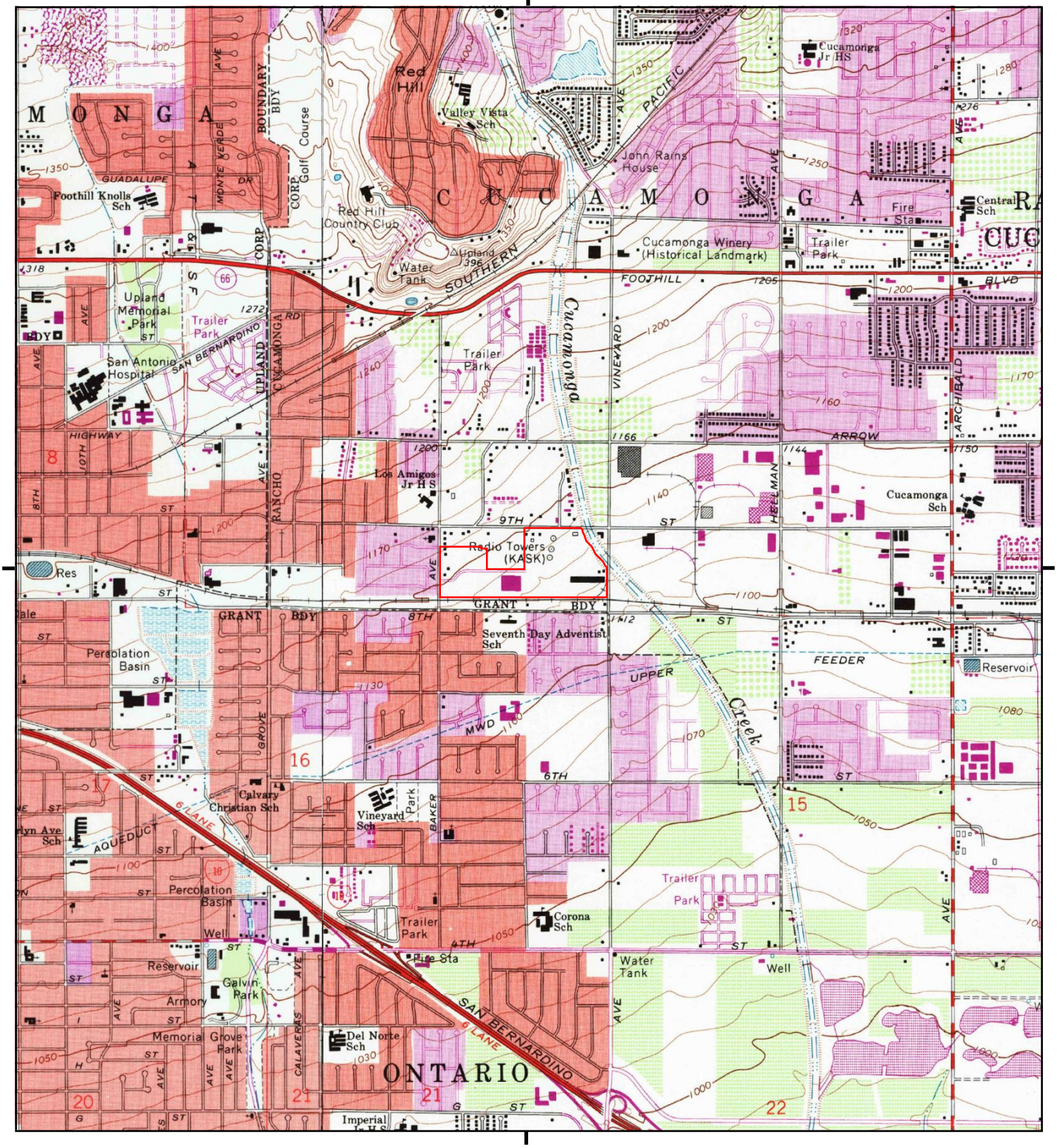
TP, ONTARIO, 1976, 15-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Historical Topo Map

1981



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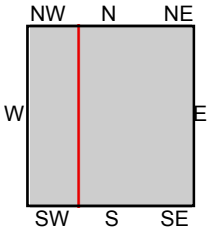
0 Miles 0.25 0.5 1 1.5



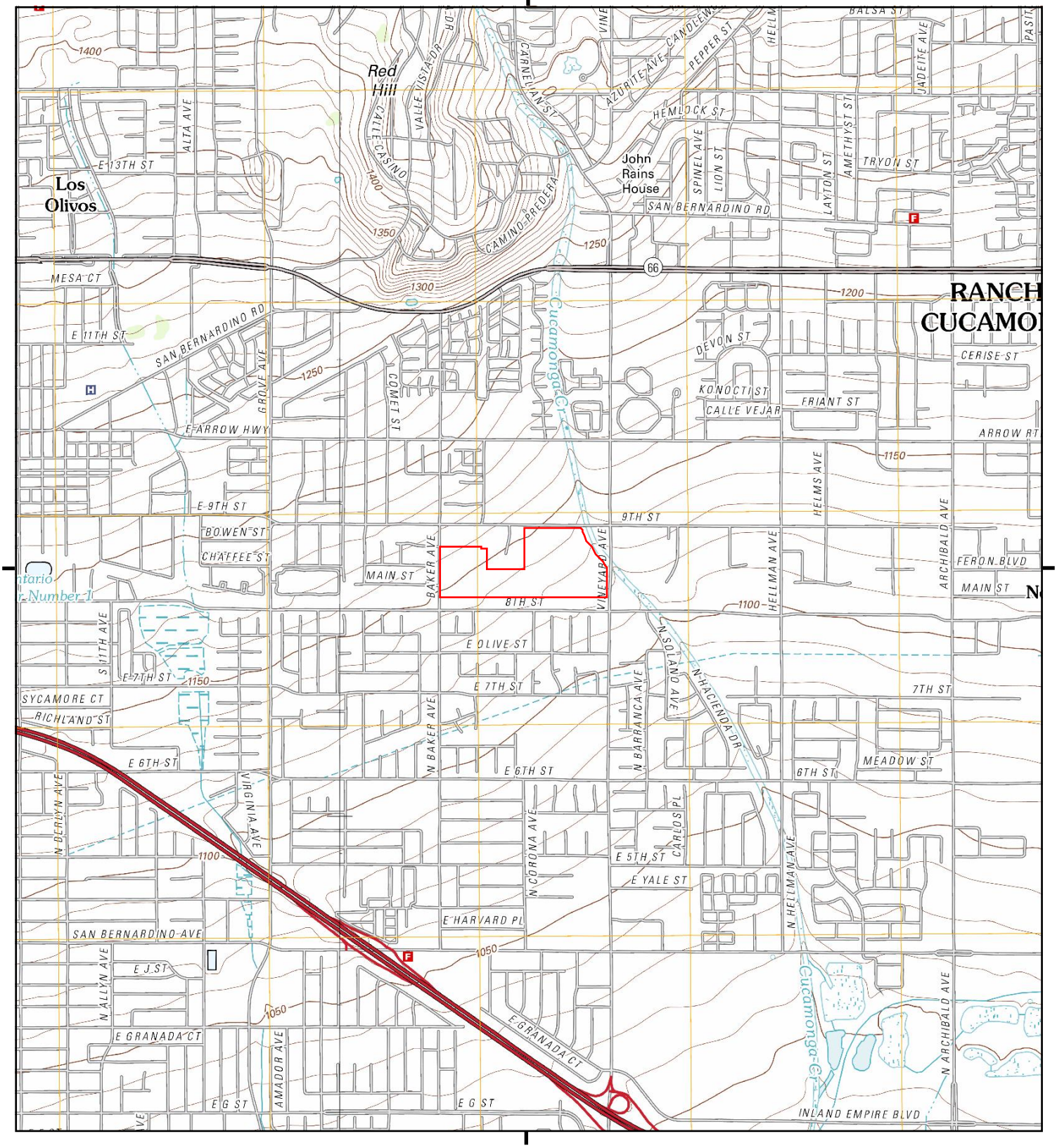
TP, Guasti, 1981, 7.5-minute
SW, Ontario, 1981, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

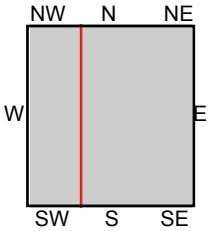
Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Guasti, 2012, 7.5-minute
SW, Ontario, 2012, 7.5-minute

SITE NAME: Vineyard Avenue and 9th Street
ADDRESS: Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730
CLIENT: Avocet Environmental, Inc.

N

Appendix B

EDR Aerial Photo Decade Package

AVOCET
ENVIRONMENTAL, INC.

Vineyard Avenue and 9th Street

Vineyard Avenue and 9th Street

Rancho Cucamonga, CA 91730

Inquiry Number: 5567027.8

February 20, 2019

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

02/20/19

Site Name:

Vineyard Avenue and 9th Stree
Vineyard Avenue and 9th Stree
Rancho Cucamonga, CA 9173
EDR Inquiry # 5567027.8

Client Name:

Avocet Environmental, Inc.
1 Technology Drive Suite C515
Irvine, CA 92618-0000
Contact: Jessica Satterlee

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
1938	1"=500'	Flight Date: May 27, 1938	USDA
1949	1"=500'	Flight Date: May 21, 1949	USDA
1953	1"=500'	Flight Date: February 02, 1953	USDA
1959	1"=500'	Flight Date: October 16, 1959	USDA
1966	1"=500'	Flight Date: April 16, 1966	USGS
1975	1"=500'	Flight Date: August 01, 1975	USGS
1985	1"=500'	Flight Date: July 28, 1985	USDA
1989	1"=500'	Flight Date: August 03, 1989	USDA
1990	1"=500'	Flight Date: August 29, 1990	USDA
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY #: 5567027.8

YEAR: 1938

= 500'

N

EDR

INQUIRY #: 5567027.8
YEAR: 1949
= 500'
N
EDR

INQUIRY #: 5567027.8

YEAR: 1953

= 500'

N

EDR

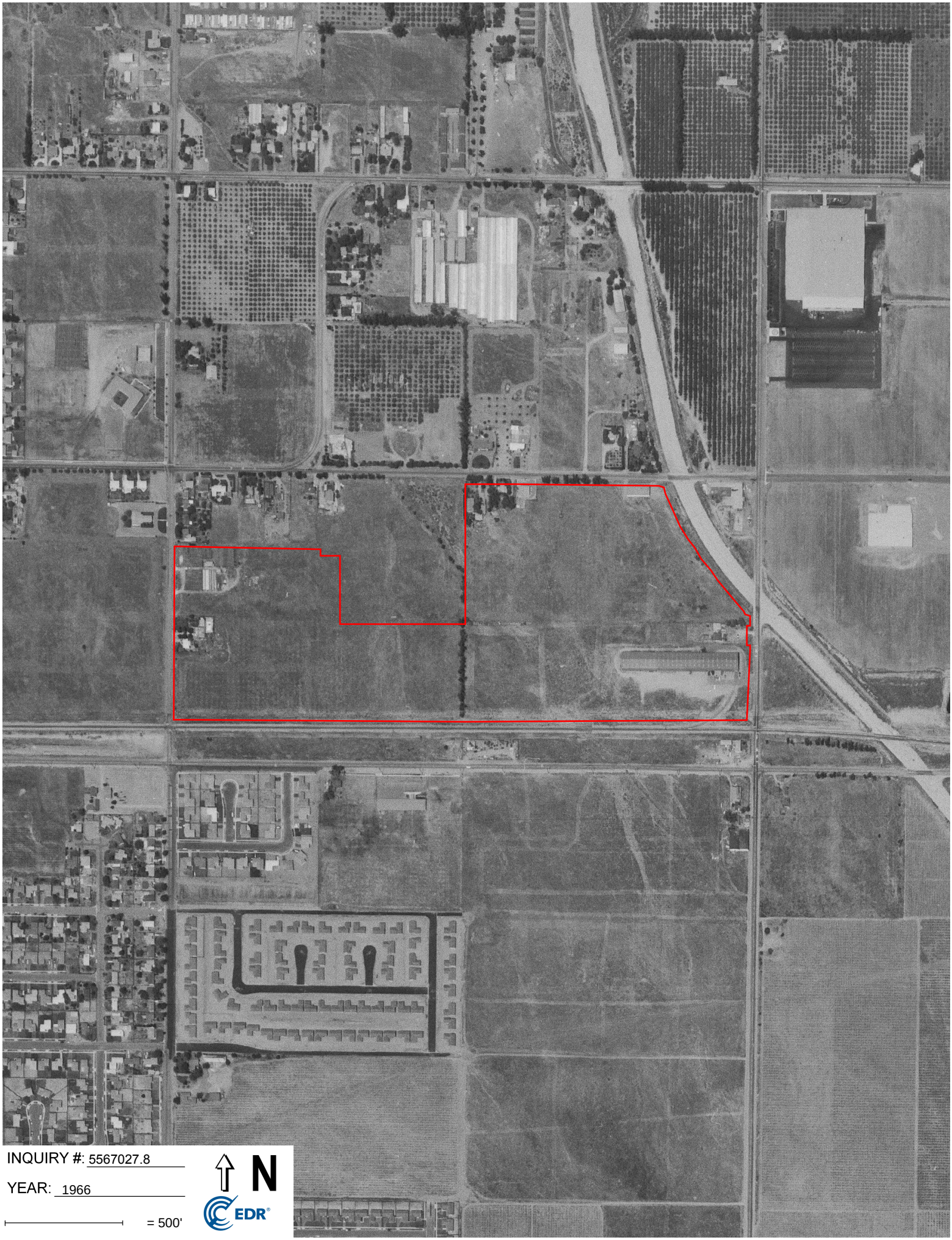
INQUIRY #: 5567027.8

YEAR: 1959

= 500'

N

EDR



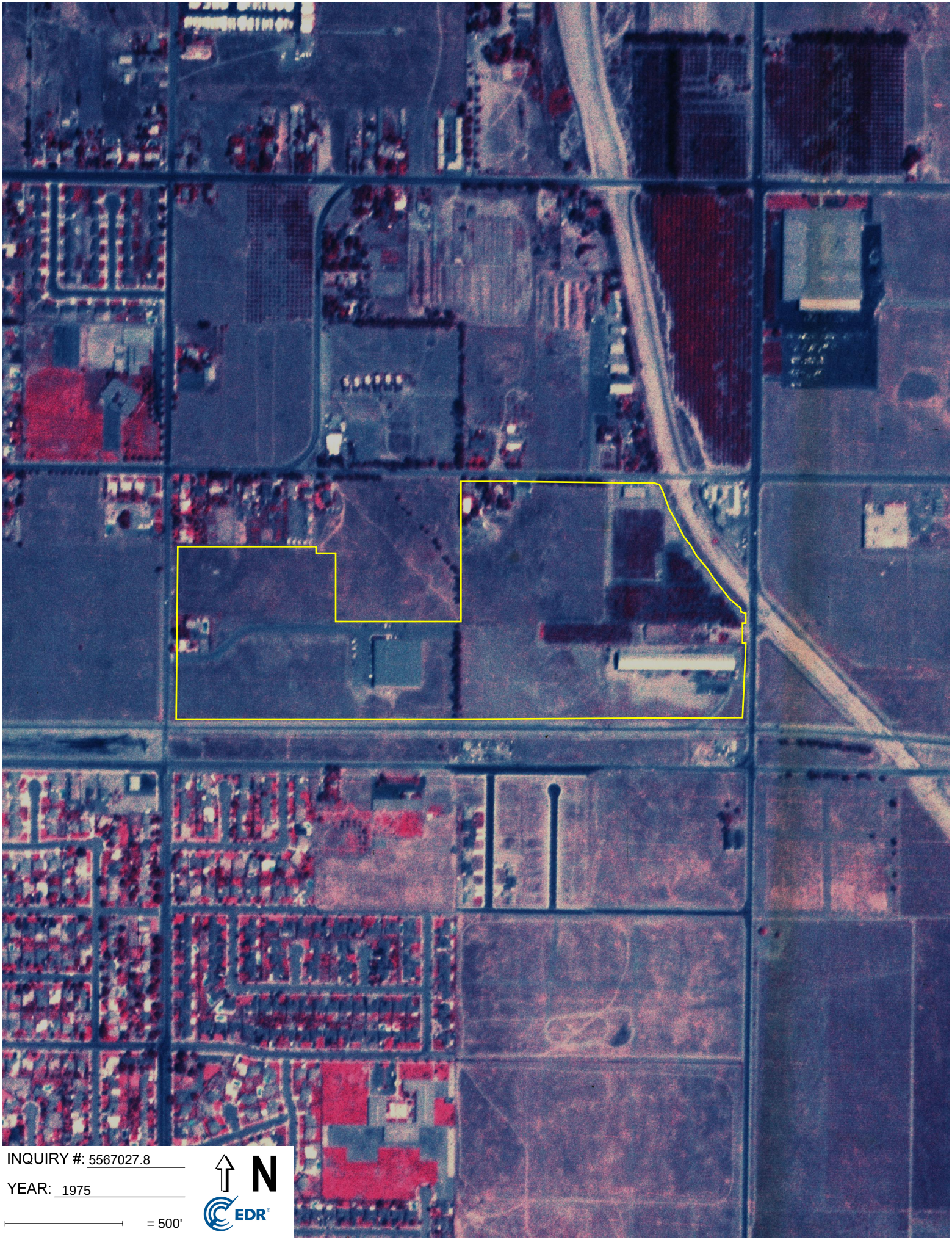
INQUIRY #: 5567027.8

YEAR: 1966

= 500'

N

EDR


INQUIRY #: 5567027.8
YEAR: 1975
= 500'
N
EDR

INQUIRY #: 5567027.8

YEAR: 1985

= 500'

N

EDR

INQUIRY #: 5567027.8

YEAR: 1989

= 500'

N

EDR

INQUIRY #: 5567027.8

YEAR: 1990

= 500'

N

EDR

INQUIRY #: 5567027.8

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 5567027.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 5567027.8

YEAR: 2009

= 500'

N

EDR

INQUIRY #: 5567027.8

YEAR: 2012

= 500'

N

EDR

INQUIRY #: 5567027.8

YEAR: 2016

= 500'

N

EDR

Appendix C

Certified Sanborn® Map Report

AVOCET
ENVIRONMENTAL, INC.

Vineyard Avenue and 9th Street

Vineyard Avenue and 9th Street

Rancho Cucamonga, CA 91730

Inquiry Number: 5567027.3

February 19, 2019

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

02/19/19

Site Name:	Client Name:
Vineyard Avenue and 9th Stree	Avocet Environmental, Inc.
Vineyard Avenue and 9th Stree	1 Technology Drive Suite C515
Rancho Cucamonga, CA 9173(	Irvine, CA 92618-0000
EDR Inquiry # 5567027.3	Contact: Jessica Satterlee

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Avocet Environmental, Inc. 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:

Certification # 0851-4170-8F64

PO # 1592.001

Project Vineyard Avenue and 9th Street

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 #: 0851-4170-8F64

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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Appendix D

EDR-City Directory Abstract

AVOCET
ENVIRONMENTAL, INC.

Vineyard Avenue and 9th Street
Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730

Inquiry Number: 5567027.5
February 19, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

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Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by infoUSA®

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2008	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2003	Haines & Co Publishers	-	X	X	-
	Haines & Co Publishers	X	X	X	-
2002	Cole Information Services	-	-	-	-
1996	GTE	-	-	-	-
1995	GTE Directories	-	X	X	-
	GTE Directories	X	X	X	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1990	GTE	X	X	X	-
1985	GTE	-	X	X	-
	GTE	X	X	X	-
1981	General Telephone Company of California	-	-	-	-
1980	GTE General Telephone Company of California	-	X	X	-
	GTE General Telephone Company of California	X	X	X	-
1975	GTE Directories	-	X	X	-
	GTE Directories	X	X	X	-
1970	General Telephone Company of California	-	-	X	-
	General Telephone Company of California	X	-	X	-
1965	GTE	-	-	-	-
1964	Luskey Brothers & Co	-	X	X	-
	Luskey Brothers & Co	X	X	X	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	General Telephone Company Publishers	-	X	X	-
	General Telephone Company Publishers	X	X	X	-
1956	General Telephone Company Publishers	-	X	X	-
	General Telephone Company Publishers	X	X	X	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Company Publishers	-	X	X	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
8705 9th street	Client Entered	X
8729 9th street	Client Entered	X
8725 9th street	Client Entered	X
8803 Baker Avenue	Client Entered	X
8817 Baker Avenue	Client Entered	X
8845 Baker Avenue	Client Entered	
8830 Vineyard Avenue	Client Entered	X
8810 Vineyard Avenue	Client Entered	X
8847 9th Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730

FINDINGS DETAIL

Target Property research detail.

9th street

8705 9th street

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2003	BOUCH Marlin	Haines & Co Publishers
1995	CASTELULINI WELDNG &FA	GTE Directories
1990	Castellini Felix	GTE
1985	87D 5 o CASTELLINI WELDNG&FAB	GTE
	CASTELLINI FELIX	GTE
1980	CASTELLINI FELIX	GTE General Telephone Company of California
	CASTELLINI WELDNG&FAB	GTE General Telephone Company of California
1970	a CASTELLINI WELDNG/FA	General Telephone Company of California
1960	Castellini F	General Telephone Company Publishers

8725 9th street

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2003	RICCI Lucy	Haines & Co Publishers
1970	RICCI L	General Telephone Company of California
1960	Ricci Lucy	General Telephone Company Publishers
1956	Ricci Lucy	General Telephone Company Publishers

8729 9th street

Year	Uses	Source
2008	AMER INTERNATIONAL HOMES	Haines Company, Inc.
	C R G TOP PRODUCERS TEAM	Haines Company, Inc.
	KSPA 1510 AM RADIO	Haines Company, Inc.
2003	BEST COMMUNICATIONS	Haines & Co Publishers
1995	CHAGAL COMMUNICATIONS	GTE Directories
	KNSE RADIO 1510 AM	GTE Directories

FINDINGS

Year	Uses	Source
1985	ALLIANCE OF LATINO	GTE
	CONTRERAS RICHARD	GTE
	IKINSE RADIO 1510 AM	GTE
	KNTF TRAFFICLFINANCL	GTE
1980	K NINTY THREE FVE FM	GTE General Telephone Company of California
	KINSE RADIO 1510 AM	GTE General Telephone Company of California
1970	OK S 0 M AM FM	General Telephone Company of California
1960	KASK AM FM RADIO Studio & Bus Ofcs	General Telephone Company Publishers

9th Street

8847 9th Street

Year	Uses	Source
2008	MERCHANT LANDSCAPE SERVICES	Haines Company, Inc.
2003	MERCHANT LANDSCAPE SERVICES	Haines & Co Publishers
1995	FUNCO	GTE Directories
1990	Fulwider L S	GTE
	unco	GTE
1985	FUNCO	GTE
1980	FUNCO	GTE General Telephone Company of California
1970	o FUNCO	General Telephone Company of California

Baker Avenue

8803 Baker Avenue

Year	Uses	Source
2008	MYSKOW Dennis	Haines Company, Inc.
2003	MYSKOW Dennis	Haines & Co Publishers
1970	LESCAULT CHARLES	General Telephone Company of California
1964	Carwell Jas	Luskey Brothers & Co
1960	Carwell Jas	General Telephone Company Publishers
1956	Carwell Jas	General Telephone Company Publishers

8817 Baker Avenue

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2003	MYSKOW Dorothy	Haines & Co Publishers
1985	KITCHEN DALE	GTE
1964	Smith Golda A	Luskey Brothers & Co
1960	France John	General Telephone Company Publishers

FINDINGS

8845 Baker Avenue

Year	Uses	Source

Vineyard Avenue

8810 Vineyard Avenue

Year	Uses	Source
1990	Galvan Adan	GTE
	Galvan Anita Ont	GTE
1980	VAN VORCE STEVE	GTE General Telephone Company of California
1975	Monte Mike	GTE Directories
1960	Velasquez Frances	General Telephone Company Publishers

8830 Vineyard Avenue

Year	Uses	Source
2008	SCHEU STEEL SPLY CO	Haines Company, Inc.
2003	SCHEU STEEL SPLY CO	Haines & Co Publishers
1995	SCHEU STEEL SUPL CO	GTE Directories
1990	No Charge Ask Opr For	GTE
	P Scherer Roger & Stephanie	GTE
	Scheu Steel Supply Co	GTE
1985	SCHEU STEEL SUPL CO	GTE
1980	SCHEU STEEL SUPL CO	GTE General Telephone Company of California
1975	Scheu Steel Supply Co	GTE Directories
1964	Scheu Steel Supply Co	Luskey Brothers & Co

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

8th St

8640 8th St

Year	Uses	Source
2014	RODAS AUTO REPAIR	EDR Digital Archive
	RODAS AUTO REPAIR	EDR Digital Archive
2010	RODAS AUTO REPAIR	EDR Digital Archive
	AUTO PROS PERFORMANCE	EDR Digital Archive
	RODAS AUTO REPAIR	EDR Digital Archive
	AUTO PROS PERFORMANCE	EDR Digital Archive

8660 8th St

Year	Uses	Source
2014	RUBENS AUTO COLLISION	EDR Digital Archive
	RUBENS AUTO COLLISION	EDR Digital Archive
2010	RUBENS AUTO COLLISION	EDR Digital Archive
	B & J ALL TUNE & LUBE INC	EDR Digital Archive
	B & J ALL TUNE & LUBE INC	EDR Digital Archive
	RUBENS AUTO COLLISION	EDR Digital Archive

8680 8th St

Year	Uses	Source
2014	SUKY AUTO REPAIR	EDR Digital Archive
	SUKY AUTO REPAIR	EDR Digital Archive
2010	SUKY AUTO REPAIR	EDR Digital Archive
	R&L AUTO REPAIR INC	EDR Digital Archive
	R&L AUTO REPAIR INC	EDR Digital Archive
	SUKY AUTO REPAIR	EDR Digital Archive

8724 8th St

Year	Uses	Source
2014	AUTOSHOP	EDR Digital Archive
	AUTOSHOP	EDR Digital Archive
2010	AUTOSHOP	EDR Digital Archive
	AUTOSHOP	EDR Digital Archive

FINDINGS

8760 8th St

Year	Uses	Source
2014	TEST ONLY SMOG	EDR Digital Archive
	TEST ONLY SMOG	EDR Digital Archive
2010	TEST ONLY SMOG	EDR Digital Archive
	TEST ONLY SMOG	EDR Digital Archive

8764 8th St

Year	Uses	Source
2014	P & C AUTO REPAIR	EDR Digital Archive
	P & C AUTO REPAIR	EDR Digital Archive
2010	P & C AUTO REPAIR	EDR Digital Archive
	P & C AUTO REPAIR	EDR Digital Archive

8TH ST E

1722 8TH ST E

Year	Uses	Source
2003	SEVENTH DAY ADVNTST	Haines & Co Publishers
	SANANTONIO JUNIOR ACADEMY	Haines & Co Publishers

E 8TH ST

1706 E 8TH ST

Year	Uses	Source
1985	HARRINGTON T R	GTE

1712 E 8TH ST

Year	Uses	Source
1985	BYRD CARL M	GTE

E 8th St

1722 E 8th St

Year	Uses	Source
2014	SOUTHEASTERN CALIFORNIA CONFER	EDR Digital Archive
	SOUTHEASTERN CALIFORNIA CONFER	EDR Digital Archive
2010	SOUTHEASTERN CALIFORNIA CONFER	EDR Digital Archive
	SOUTHEASTERN CALIFORNIA CONFER	EDR Digital Archive

FINDINGS

E 8TH ST

1722 E 8TH ST

Year	Uses	Source
2008	SANANTONIO JUNIOR ACADEMY	Haines Company, Inc.
	SEVENTH DAY ADVNTST CH SNNTNO	Haines Company, Inc.
1995	SAN ANTONIO JUNIOR	GTE Directories
1990	ONTARIO	GTE
	SEVENTH DAY ADVENTIST SCHOOL	GTE
1985	7TH DAY ADVENTST SCH	GTE
	STRAWBERRY PATCH KDS	GTE
1980	7TH DAY AOVENTST SCH 982 Z	GTE General Telephone Company of California
1975	SEVENTH DAY ADVENTIST SCHOOL ONTARIO	GTE Directories
1964	Seventh Day Adventist School	Luskey Brothers & Co

1801 E 8TH ST

Year	Uses	Source
1985	VALLEY VW HIGH SCHL	GTE

LANYARD CT

8762 LANYARD CT

Year	Uses	Source
2008	ARROW WOODS INC	Haines Company, Inc.

Lanyard Ct

8767 Lanyard Ct

Year	Uses	Source
2014	PHIL INTER PHARMA USA	EDR Digital Archive
	INLAND SPORTS CENTER INC	EDR Digital Archive
	PHIL INTER PHARMA USA	EDR Digital Archive
	INLAND SPORTS CENTER INC	EDR Digital Archive
2010	WOLHAUPTER CHARLES K	EDR Digital Archive
	RANCHO BASEBALL & SOFTBALL CTR	EDR Digital Archive
	WOLHAUPTER CHARLES K	EDR Digital Archive
	RANCHO BASEBALL & SOFTBALL CTR	EDR Digital Archive

FINDINGS

8777 Lanyard Ct

Year	Uses	Source
2014	MONTGOMERY HARDWARE CO	EDR Digital Archive
	MONTGOMERY HARDWARE CO	EDR Digital Archive
2010	MONTGOMERY HARDWARE CO	EDR Digital Archive
	MONTGOMERY HARDWARE CO	EDR Digital Archive
	MONTGOMERY HARDWARE CO	EDR Digital Archive
	MONTGOMERY HARDWARE CO	EDR Digital Archive

8782 Lanyard Ct

Year	Uses	Source
2014	KENNAMETAL INC	EDR Digital Archive
	SCHILLING GRAPHICS	EDR Digital Archive
	KENNAMETAL INC	EDR Digital Archive
	SCHILLING GRAPHICS	EDR Digital Archive

N ORANGE GROVE AVE

1866 N ORANGE GROVE AVE

Year	Uses	Source
1990	Kirschner S	GTE
	Nicholson Dennis H MD	GTE
	Moya D Ont	GTE
	Lanier Products Pma	GTE
	Kirschner S & L	GTE
	Johnson Jerome L MD	GTE
	Jablow Jay T MD Inc	GTE
	: Glynn S	GTE
	Glunt Victor W & Tobi Mntclr	GTE
	Glueckert C	GTE
	Gluckstein Daniel P MD	GTE
	Brown Kenneth S MD	GTE

1880 N ORANGE GROVE AVE

Year	Uses	Source
1990	Young Daniel RInc dntst	GTE
	Pomona	GTE
	Huntington Robert E Inc dntst	GTE
	From La Puente Telephones Call	GTE
1975	Young Daniel R Inc dntst	GTE Directories

FINDINGS

Year	Uses	Source
1975	Huntington Robert E Inc dntst	GTE Directories

SE ARROW HWY

6 SE ARROW HWY

Year	Uses	Source
1956	Loch Blanche M	General Telephone Company Publishers

W 8TH ST

1739 W 8TH ST

Year	Uses	Source
1951	Danner C	Los Angeles Directory Company Publishers

1743 W 8TH ST

Year	Uses	Source
1956	Waldman Marvin	General Telephone Company Publishers
	Forrest Pre I Kindergarten School	General Telephone Company Publishers
1951	Flocker J M	Los Angeles Directory Company Publishers
	Kleien 3 J	Los Angeles Directory Company Publishers

1763 W 8TH ST

Year	Uses	Source
1951	Magnusson A W	Los Angeles Directory Company Publishers

1783 W 8TH ST

Year	Uses	Source
1951	Schlegel Wm	Los Angeles Directory Company Publishers

7222805 W 8TH ST

Year	Uses	Source
1956	Mc Callum Charlotte A	General Telephone Company Publishers

544856104 W 8TH ST

Year	Uses	Source
1956	Brown L T	General Telephone Company Publishers

545555789 W 8TH ST

Year	Uses	Source
1956	Fischer M W	General Telephone Company Publishers

FINDINGS

W 9TH ST

17111 W 9TH ST

Year	Uses	Source
1956	Boyd John D Jr	General Telephone Company Publishers

80524462 W 9TH ST

Year	Uses	Source
1956	Donnan Dolly B Mrs	General Telephone Company Publishers

162024805 W 9TH ST

Year	Uses	Source
1956	Cismowski Robt	General Telephone Company Publishers

162725107 W 9TH ST

Year	Uses	Source
1956	Bohot G 0	General Telephone Company Publishers

170753355 W 9TH ST

Year	Uses	Source
1956	Bower Jas M	General Telephone Company Publishers

170956240 W 9TH ST

Year	Uses	Source
1956	Segesman R A	General Telephone Company Publishers

178051685 W 9TH ST

Year	Uses	Source
1956	Nelson Franklyn C Dr	General Telephone Company Publishers

182051550 W 9TH ST

Year	Uses	Source
1956	Cooper Clarence	General Telephone Company Publishers

185552248 W 9TH ST

Year	Uses	Source
1956	Squires Art	General Telephone Company Publishers

188051501 W 9TH ST

Year	Uses	Source
1956	Ehret Leonard	General Telephone Company Publishers

FINDINGS

188851396 W 9TH ST

Year	Uses	Source
1956	Hawkins Floyd R	General Telephone Company Publishers

188851773 W 9TH ST

Year	Uses	Source
1956	Lyons M L	General Telephone Company Publishers

W ARROW

1849 W ARROW

Year	Uses	Source
1990	Chapin John F	GTE
1960	Davidson Ray J	General Telephone Company Publishers
	Wulf Burdell L	General Telephone Company Publishers
1956	Davidson Ray J	General Telephone Company Publishers

W E ST

405 W E ST

Year	Uses	Source
1956	Menix G A	General Telephone Company Publishers

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
162024805 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
162725107 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1706 E 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
170753355 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
170956240 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
17111 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1712 E 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1722 8TH ST E	2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1722 E 8TH ST	2014, 2010, 2003, 2002, 1996, 1991, 1981, 1970, 1965, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1722 E 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1722 E 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1739 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1743 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1763 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
178051685 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1783 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1801 E 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
182051550 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1849 W ARROW	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
185552248 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1866 N ORANGE GROVE AVE	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1880 N ORANGE GROVE AVE	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
188051501 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
188851396 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
188851773 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
405 W E ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
544856104 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
545555789 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
6 SE ARROW HWY	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
7222805 W 8TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
80524462 W 9TH ST	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8640 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
8640 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8660 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8660 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8680 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8680 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8724 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8724 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8760 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8760 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8762 LANYARD CT	2014, 2010, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8764 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8764 8th St	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8767 Lanyard Ct	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8767 Lanyard Ct	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8777 Lanyard Ct	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8777 Lanyard Ct	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8782 Lanyard Ct	2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
8782 Lanyard Ct	2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

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
Vineyard Avenue and 9th Street	2014, 2010, 2002, 1996, 1991, 1981, 1965, 1961, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Appendix E

Site Photographs

AVOCET
ENVIRONMENTAL, INC.

E-1. Processed plastic stored inside the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-2. Boxes and super sacks of processed recycled plastic inside the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-3. Miscellaneous items stored in the southwestern corner of the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-4. One of two holes in floor of the Ecoplast building at 8855 Baker Avenue, possibly related to formerly installed equipment (03/01/2019).

E-5. Fluid leakage from bales of plastic bags inside the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-6. Looking east along the northern wall of the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-7. Looking south along the eastern wall of the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-8. Looking north along the western wall of the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-9. Looking east along the southern wall of the Ecoplast building at 8855 Baker Avenue (03/01/2019).

E-10. Abandoned, possibly historic residential building at 8803 Baker Avenue (03/01/2019).

E-11. Looking northeast at concrete debris in the former pool area behind the abandoned residence at 8803 Baker Avenue (03/01/2019).

E-12. Looking north along the western site boundary from the property at 8769 Baker Avenue (03/01/2019).

E-13. Looking northeast over building pads at 8705 East 9th Street at KSPA radio station building at 8729 East 9th Street (03/01/2019).

E-14. Broken concrete pipe debris at 8725 East 9th Street (03/01/2019).

E-15. Looking south at KSPA radio station building at 8729 East 9th Street (03/01/2019).

E-16. Looking southeast at four KSPA radio station masts at 8729 East 9th Street with Scheu Steel building in background right (03/01/2019).

E-17. Paint, tools, and cleaning supplies in the Merchant Landscape workshop at 8847 East 9th Street (03/01/2019).

E-18. Solid and liquid pesticides and herbicides in secure storage in the Merchant Landscape workshop at 8847 East 9th Street (03/01/2019).

E-19. Tires, work bench, and equipment in the Merchant Landscape workshop at 8847 East 9th Street (03/01/2019).

E-20. Landscaping equipment and gas cans in one of the client-specific storage areas in the Merchant Landscape workshop at 8847 East 9th Street (03/01/2019).

E-21. Lawn mowers in the Merchant Landscape workshop at 8847 East 9th Street (03/01/2019).

E-22. Oil change pans and 5-gallon pails of fresh and waste oil, with related staining on the concrete floor, in the Merchant Landscape workshop at 8847 East 9th Street (03/01/2019).

E-23. Equipment trailer and potted plants along the west side of the Merchant Landscape property at 8847 East 9th Street (03/01/2019).

E-24. Interior of one of the storage containers at in the Merchant Landscape property at 8847 East 9th Street (03/01/2019).

E-25. Equipment outside the south wall of the Merchant Landscape building at 8847 East 9th Street (03/01/2019).

E-26. Green waste storage area at 8810 Vineyard Avenue, south of the Merchant Landscape building (03/01/2019).

E-27. Looking northwest at concrete debris at 8810 Vineyard Avenue with KSPA radio station in background left and Merchant Landscape building in background right (03/01/2019).

E-28. Looking west at entrance to cleared residential property at 8810 Vineyard Avenue with Scheu Steel building at left (03/01/2019).

E-29. Metal band saw inside the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-30. Cincinnati shear machine inside the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-31. Flame cutting machine inside the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-32. Aerosol paint cans in flammables cabinet inside the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-33. Waste coolant, oil, and gasoline containers inside the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-34. Propane tank outside the southern wall of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-35. Tumbler in lean-to shed attached to the southern wall of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-36. Compressed gas cylinders and liquid oxygen AST outside the southwest corner of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-37. Storm drain inlet to the southwest of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-38. Stormwater diversion berm of broken and crushed concrete located north of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-39. Looking east at dust collection equipment on the north side of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-40. Looking southeast at Scheu Steel sheet metal storage area at 8830 Vineyard Avenue with Scheu Steel office building and cell phone tower in background (03/01/2019).

E-41. Sheet metal storage and truck parking area west of the Scheu Steel building at 8830 Vineyard Avenue (03/01/2019).

E-42. Empty, 55-gallon hydraulic oil drums at the Scheu Steel property at 8830 Vineyard Avenue (03/01/2019).

E-43. Looking northwest at asphalt grindings at the Scheu Steel property at 8830 Vineyard Avenue with Ecoplast building in background behind trees (03/01/2019).

Appendix F

ASTM 1527-13 User Questionnaire

AVOCET
ENVIRONMENTAL, INC.

PHASE I ENVIRONMENTAL SITE ASSESSMENT – ASTM 1527-13
USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments") the user should provide the following information (if available) to the environmental professional.

1) Title Review - Environmental cleanup liens that are filed or recorded against 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**

2) Activity and land use limitations 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 activity and use limitations (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**

3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). ***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

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 fair market value of the property?*** **YES**

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?

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 environmental professional to identify conditions indicative of releases or threatened releases of hazardous materials?***

(a.) Do you know the past uses of the property? **NO**

(b.) Do you know of specific chemicals that are present or once were present at the property? **NO**

(c.) Do you know of spills or other chemical releases that have taken place at the property? **NO**

(d.) Do you know of any environmental cleanups that have taken place at the property? **NO**

User's Initials __KGD_____

Property Name __9th and Vineyard _____

PHASE I ENVIRONMENTAL SITE ASSESSMENT – ASTM 1527-13
USER QUESTIONNAIRE

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). ***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

7) Proceedings Involving the Property Pursuant to ASTM E 1527-13 §10.9, ***As the user of this ESA do you know of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?***

NO

SIGNATURE

I have completed this *User Questionnaire* to the best of my actual knowledge only, and provided readily available information, if any, as stated in this document to the environmental professional as of the following date. The information contained in this document does not constitute a warranty or guarantee of any kind as to the accuracy of any third party information provided, and the undersigned disclaims any liability for the reliance on any such information by others.

Kristen L Dickey

_____ 2/18/19

SIGNATURE DATE

Kristen Dickey

_____

PRINT OR TYPE NAME

Southwest Corner 9th Street and Vineyard Avenue

_ _____

PROPERTY NAME

Rancho Cucamonga, CA

_____

LOCATION

Appendix G

EDR Radius Map™ Report with GeoCheck®

AVOCET
ENVIRONMENTAL, INC.

Vineyard Avenue and 9th Street
Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730

Inquiry Number: 5567027.2s
February 19, 2019

The EDR Radius Map™ Report with GeoCheck®

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

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

VINEYARD AVENUE AND 9TH STREET
RANCHO CUCAMONGA, CA 91730

COORDINATES

Latitude (North):	34.0933300 - 34˚ 5' 35.98''
Longitude (West):	117.6154610 - 117˚ 36' 55.65''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	443224.1
UTM Y (Meters):	3772480.5
Elevation:	1136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5620426 GUASTI, CA
Version Date:	2012
Southwest Map:	5619074 ONTARIO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
VINEYARD AVENUE AND 9TH STREET
RANCHO CUCAMONGA, CA 91730

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1		8729 9TH STREET CROS	CHMIRS	Higher	1 ft.
B2	24K INDUSTRIAL BUILD	8705 & 8725 9TH STRE	NPDES, CIWQS	Higher	1 ft.
A3		8729 NINTH STREET	CHMIRS	Higher	1 ft.
B4	SUMMIT DEVELOPMENT C	8705 9TH ST	HAZNET	Higher	1 ft.
C5	RANCHO CUCAMONGA PRO	8817 BAKER AVE	HAZNET	Higher	1 ft.
C6	DENNIS MYSKOW	8803 BAKER AVE	HAZNET	Higher	1 ft.
7	FERNANDO A RODRIGUEZ	8847 9TH ST	HAZNET, PEST LIC	Higher	1 ft.
D8	SCHEU STEEL SUPPLY C	8830 VINEYARD AVE	FINDS	Lower	1 ft.
D9	SCHEU STEEL SUPPLY C	8830 VINEYARD AVE	HIST UST, HAZNET, San Bern. Co. Permit	Lower	1 ft.
D10	SCHEU STEEL SUPPLY C	8830 VINEYARD AVE	SWEEPS UST, HIST UST, CA FID UST	Lower	1 ft.
11	KENNAMETAL	8782 LANYARD CT	San Bern. Co. Permit	Higher	94, 0.018, NW
E12	8TH ST COLLISION	8540 8TH ST	San Bern. Co. Permit	Higher	132, 0.025, WSW
E13	8TH STREET BODY SHOP	8540 8TH ST	San Bern. Co. Permit	Higher	132, 0.025, WSW
E14	MASCO CONTRACTOR SER	8855 BAKER AVE	San Bern. Co. Permit	Higher	137, 0.026, WSW
E15	COLUMBIA RIBBON CARB	8855 BAKER AVE	RCRA-SQG, FINDS, ECHO	Higher	137, 0.026, WSW
F16	THE PIT STOP AUTO SE	8680 8TH ST	San Bern. Co. Permit	Higher	137, 0.026, WSW
G17	THE AUTOSHOP	8724 8TH ST	San Bern. Co. Permit	Lower	139, 0.026, SE
G18	HOWARDS CAR CRAFT	8724 8TH ST	RCRA-SQG, FINDS, ECHO, EMI, HAZNET	Lower	139, 0.026, SE
H19	TRAYNOR'S VOLVO	8600 8TH ST A	San Bern. Co. Permit	Lower	139, 0.026, SW
H20	TRAYNORS VOLVO	8600 8TH ST	EDR Hist Auto	Lower	139, 0.026, SW
G21	A AND A AUTO BODY	8760 8TH ST	HAZNET, San Bern. Co. Permit	Lower	140, 0.027, ESE
E22	HIGHLAND AUTO, AIR &	8560 8TH ST UNIT A	San Bern. Co. Permit	Higher	149, 0.028, WSW
E23	QUALITY TRANSMISSION	8560 8TH ST STE B	San Bern. Co. Permit	Higher	149, 0.028, WSW
E24	EARLS AUTOMOTIVE REP	8560 8TH ST A	EDR Hist Auto	Higher	149, 0.028, WSW
E25	PERFORMANCE HONDA SE	8580 8TH ST STE A	EDR Hist Auto	Higher	150, 0.028, WSW
E26	PRIMA AUTO REPAIR	8580 8TH ST B	San Bern. Co. Permit	Higher	150, 0.028, WSW
E27	PRIMA AUTO REPAIR AN	8580 8TH ST A	San Bern. Co. Permit	Higher	150, 0.028, WSW
F28	RUBEN'S AUTO COLLISI	8660 8TH ST STE A	San Bern. Co. Permit	Lower	154, 0.029, SW
F29	B & J'S ALL TUNE & L	8660 8TH ST	San Bern. Co. Permit	Lower	154, 0.029, SW
I30	BERTINO AUTOMOTIVE S	8880 8TH ST	San Bern. Co. Permit	Lower	164, 0.031, ESE
J31	AUTO TECH SERVICES	8808 8TH ST	HAZNET, San Bern. Co. Permit	Lower	199, 0.038, ESE
G32	OSHIRO'S AUTOMOTIVE	8764 8TH ST	San Bern. Co. Permit	Lower	200, 0.038, SE
G33	RELIABLE SMOG & AUTO	8786 8TH ST	San Bern. Co. Permit	Lower	201, 0.038, SE
J34	CITYWIDE AUTO REPAIR	8820 8TH ST	San Bern. Co. Permit	Lower	201, 0.038, ESE
J35	AL'S GARAGE	8822 8TH ST	San Bern. Co. Permit	Lower	201, 0.038, ESE
I36	KB COMPLETE AUTO REP	8846 8TH ST	San Bern. Co. Permit	Lower	205, 0.039, ESE
K37	AUTOHAUS MOTORSPORTS	8730 VINEYARD AVE	San Bern. Co. Permit	Lower	211, 0.040, ENE
F38	ONTARIO WELL #46	1670 E 8TH ST	San Bern. Co. Permit	Higher	236, 0.045, WSW
H39	ONTARIO SEVENTH-DAY	1722 EAST 8TH STREET	HIST UST	Lower	240, 0.045, SSW

MAPPED SITES SUMMARY

Target Property Address:
VINEYARD AVENUE AND 9TH STREET
RANCHO CUCAMONGA, CA 91730

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K40	ADVANCED AUTO TECH	8747 VINEYARD AVE UN	San Bern. Co. Permit	Lower	310, 0.059, ENE
K41	WILSON & BELL AUTO S	8747 VINEYARD ST STE	San Bern. Co. Permit	Lower	310, 0.059, ENE
K42	DEALER ALTERNATIVE S	8747 VINEYARD AVE UN	San Bern. Co. Permit	Lower	310, 0.059, ENE
G43	MOBIL INDUSTRIAL COA	1848 N PLACER AVE	EDR Hist Auto	Lower	368, 0.070, SE
44	EMPIRE CLEANERS	1859 N VINEYARD AVE	EDR Hist Cleaner	Lower	564, 0.107, ESE
45	PERALEZ, FRANK J	1829 N BAKER	SWEEPS UST, CA FID UST	Higher	591, 0.112, WSW
46	IMC BRANCH #17	8840 FLOWER RD STE 1	HAZNET, San Bern. Co. Permit	Lower	597, 0.113, East
L47	AVERY INTL VENTURE C	8989 NINTH ST	RCRA-SQG	Lower	887, 0.168, ENE
M48	ARMANDO RODRIGUEZ DB	1758 E OLIVE ST	RCRA NonGen / NLR, PADS	Lower	959, 0.182, South
M49	A. RODRIGUEZ TRANSPO	1758 E. OLIVE ST.	HWT	Lower	959, 0.182, South
L50	TRANSCENDIA, INC.	9000 9TH ST STE 140	San Bern. Co. Permit	Lower	1040, 0.197, ENE
N51	SEARING INDUSTRIES	8901 ARROW RTE	RCRA-SQG, FINDS, ECHO	Higher	1139, 0.216, NE
N52	SEARING IND INC	8901 ARROW RTE	AST, EMI, NPDES, San Bern. Co. Permit, CIWQS	Higher	1139, 0.216, NE
53	EARTH PROTECTION SER	8747 FLOWER ST	RCRA NonGen / NLR	Lower	1201, 0.227, ENE
54	POSADAS TRUCKING	8607 COMET STREET	HWT	Higher	1242, 0.235, NW
O55	M.S. FOOD STORE	8514 VINEYARD AVE	CHMIRS, San Bern. Co. Permit	Higher	1254, 0.237, NNE
O56	M.S. FOOD STORE	8514 VINEYARD AVE	UST	Higher	1254, 0.237, NNE
57	6TH STREET CONTINUAT	VINEYARD AVE./7TH ST	ENVIROSTOR, SCH	Lower	1761, 0.334, South
58	CHAFFEY STEM HIGH SC	NW OF INTERSECTION O	ENVIROSTOR, SCH	Lower	1988, 0.377, SSE
P59	AVERY INTL	9292 NINTH ST	RCRA-SQG, LUST, SWEEPS UST, HIST UST, CA FID UST,...	Lower	2333, 0.442, ENE
P60	AVERY INTERNATIONAL-	9292 NINTH STREET	ENVIROSTOR, HIST UST	Lower	2333, 0.442, ENE
61	JIM'S TEXACO	8715 GROVE	LUST, HIST CORTESE	Higher	2557, 0.484, WNW
62	UPLAND THRALL HALL U	1284 E. SEVENTH STRE	ENVIROSTOR	Higher	2990, 0.566, WSW
63	INTERMETRO INDUSTRIE	9393 ARROW HIGHWAY	ENVIROSTOR, San Bern. Co. Permit	Higher	3487, 0.660, ENE
64	NEW MIDDLE SCHOOL NO	SIXTH STREET/AMADOR	ENVIROSTOR, SCH	Lower	3702, 0.701, SW
65	HELLMAN ELEMENTARY S	6TH STREET/HELLMAN A	ENVIROSTOR, SCH	Lower	4185, 0.793, SE
66	FORMER TOWN CENTER C	9116 EAST FOOTHILL B	ENVIROSTOR, VCP	Higher	4807, 0.910, NNE
67	WESTERN MOLDINGS, IN	1111 EAST 8TH STREET	ENVIROSTOR	Higher	5123, 0.970, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
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
SEMS ..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

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-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

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

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ..... Statewide SLIC Cases

State and tribal registered storage tank lists

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

State and tribal voluntary cleanup sites

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

State and tribal Brownfields sites

BROWNFIELDS ..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs

EXECUTIVE SUMMARY

CERS HAZ WASTE	CERS HAZ WASTE
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines

EXECUTIVE SUMMARY

ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CERS	CERS
WIP	Well Investigation Program Case List
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR 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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

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 03/01/2018 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLUMBIA RIBBON CARB EPA ID:: CAD057775785	***8855 BAKER AVE***	***WSW 0 - 1/8 (0.026 mi.)***	***E15***	***25***
SEARING INDUSTRIES EPA ID:: CAR000083261	***8901 ARROW RTE***	***NE 1/8 - 1/4 (0.216 mi.)***	***N51***	***51***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOWARDS CAR CRAFT EPA ID:: CAD982374480	***8724 8TH ST***	***SE 0 - 1/8 (0.026 mi.)***	***G18***	***28***
AVERY INTL VENTURE C EPA ID:: CAT080014004	8989 NINTH ST	ENE 1/8 - 1/4 (0.168 mi.)	L47	48

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 10/29/2018 has revealed that there are 9 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UPLAND THRALL HALL U Facility Id: 36970010 Status: * De-listed	1284 E. SEVENTH STRE	WSW 1/2 - 1 (0.566 mi.)	62	98
INTERMETRO INDUSTRIE Facility Id: 71002573 Status: Inactive - Needs Evaluation	***9393 ARROW HIGHWAY***	***ENE 1/2 - 1 (0.660 mi.)***	***63***	***99***
FORMER TOWN CENTER C	***9116 EAST FOOTHILL B***	***NNE 1/2 - 1 (0.910 mi.)***	***66***	***107***

Facility Id: 60002569 Status: Active				
WESTERN MOLDINGS, IN Facility Id: 36340063 Status: Active	1111 EAST 8TH STREET	W 1/2 - 1 (0.970 mi.)	67	111

Lower Elevation	Address	Direction / Distance	Map ID	Page
6TH STREET CONTINUAT Facility Id: 36010055 Status: No Further Action	***VINEYARD AVE./7TH ST***	***S 1/4 - 1/2 (0.334 mi.)***	***57***	***66***
CHAFFEY STEM HIGH SC Facility Id: 60002388 Status: No Further Action	***NW OF INTERSECTION O***	***SSE 1/4 - 1/2 (0.377 mi.)***	***58***	***69***
AVERY INTERNATIONAL- Facility Id: 71002437 Status: Inactive - Needs Evaluation	***9292 NINTH STREET***	***ENE 1/4 - 1/2 (0.442 mi.)***	***P60***	***94***
NEW MIDDLE SCHOOL NO Facility Id: 36070009 Status: No Further Action	***SIXTH STREET/AMADOR***	***SW 1/2 - 1 (0.701 mi.)***	***64***	***101***
HELLMAN ELEMENTARY S Facility Id: 36010033 Status: Inactive - Needs Evaluation	***6TH STREET/HELLMAN A***	***SE 1/2 - 1 (0.793 mi.)***	***65***	***104***

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JIM'S TEXACO Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100365 Global ID: T0607100365	***8715 GROVE***	***WNW 1/4 - 1/2 (0.484 mi.)***	***61***	***95***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AVERY INTL Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100288	***9292 NINTH ST***	***ENE 1/4 - 1/2 (0.442 mi.)***	***P59***	***72***

EXECUTIVE SUMMARY

Global ID: T0607100288

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, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
M.S. FOOD STORE	8514 VINEYARD AVE	NNE 1/8 - 1/4 (0.237 mi.)	O56	65
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 89019572 Facility Id: FA0004780				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SEARING IND INC	***8901 ARROW RTE***	***NE 1/8 - 1/4 (0.216 mi.)***	***N52***	***53***
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PERALEZ, FRANK J	***1829 N BAKER***	***WSW 0 - 1/8 (0.112 mi.)***	***45***	***45***
Status: A Tank Status: A Comp Number: 14777				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHEU STEEL SUPPLY C	***8830 VINEYARD AVE***	***0 - 1/8 (0.000 mi.)***	***D10***	***21***

Status: A
Comp Number: 43002

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 3 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHEU STEEL SUPPLY C	***8830 VINEYARD AVE***	***0 - 1/8 (0.000 mi.)***	***D9***	***20***
Facility Id: 00000043002				
SCHEU STEEL SUPPLY C	***8830 VINEYARD AVE***	***0 - 1/8 (0.000 mi.)***	***D10***	***21***
ONTARIO SEVENTH-DAY	1722 EAST 8TH STREET	SSW 0 - 1/8 (0.045 mi.)	H39	42
Facility Id: 00000013347				

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
PERALEZ, FRANK J	***1829 N BAKER***	***WSW 0 - 1/8 (0.112 mi.)***	***45***	***45***
Facility Id: 36008688				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHEU STEEL SUPPLY C	***8830 VINEYARD AVE***	***0 - 1/8 (0.000 mi.)***	***D10***	***21***
Facility Id: 36008995				
Status: A				

Records of Emergency Release Reports

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 04/06/2018 has revealed that there are 2 CHMIRS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	8729 9TH STREET CROS	0 - 1/8 (0.000 mi.)	A1	8
OES Incident Number: 6-4994				
Not reported	8729 NINTH STREET	0 - 1/8 (0.000 mi.)	A3	16
OES Incident Number: 6-5166				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARMANDO RODRIGUEZ DB EPA ID:: CAR000173518	***1758 E OLIVE ST***	***S 1/8 - 1/4 (0.182 mi.)***	***M48***	***49***
EARTH PROTECTION SER EPA ID:: CAR000016436	8747 FLOWER ST	ENE 1/8 - 1/4 (0.227 mi.)	53	62

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 11/15/2018 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHEU STEEL SUPPLY C Registry ID:: 110066072582	8830 VINEYARD AVE	0 - 1/8 (0.000 mi.)	D8	19

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2017 has revealed that there are 5 HAZNET sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUMMIT DEVELOPMENT C GEPAID: CAC002845427	8705 9TH ST	0 - 1/8 (0.000 mi.)	B4	17
RANCHO CUCAMONGA PRO GEPAID: CAC002876740	8817 BAKER AVE	0 - 1/8 (0.000 mi.)	C5	18
DENNIS MYSKOW	8803 BAKER AVE	0 - 1/8 (0.000 mi.)	C6	18

GEPAID: CAC002655449				
FERNANDO A RODRIGUEZ	***8847 9TH ST***	***0 - 1/8 (0.000 mi.)***	***7***	***19***
GEPAID: CAC002654987				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHEU STEEL SUPPLY C	***8830 VINEYARD AVE***	***0 - 1/8 (0.000 mi.)***	***D9***	***20***
GEPAID: CAL000377968				

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 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JIM'S TEXACO	***8715 GROVE***	***WNW 1/4 - 1/2 (0.484 mi.)***	***61***	***95***
Reg Id: 083602602T				

Lower Elevation	Address	Direction / Distance	Map ID	Page
AVERY INTL	***9292 NINTH ST***	***ENE 1/4 - 1/2 (0.442 mi.)***	***P59***	***72***
Reg Id: 083602318T				

HWT: 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.

A review of the HWT list, as provided by EDR, and dated 10/09/2018 has revealed that there are 2 HWT sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
POSADAS TRUCKING	8607 COMET STREET	NW 1/8 - 1/4 (0.235 mi.)	54	63
Reg Num: 5815				

Lower Elevation	Address	Direction / Distance	Map ID	Page
A. RODRIGUEZ TRANSPO	1758 E. OLIVE ST.	S 1/8 - 1/4 (0.182 mi.)	M49	51
Reg Num: 5400				

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 11/12/2018 has revealed that there is 1 NPDES site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
24K INDUSTRIAL BUILD	***8705 & 8725 9TH STRE***	***0 - 1/8 (0.000 mi.)***	***B2***	***9***

Facility Status: Terminated

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 11/28/2018 has revealed that there are 31 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KENNAMETAL Facility Status: INACTIVE Facility Id: FA0011520	8782 LANYARD CT	NW 0 - 1/8 (0.018 mi.)	11	23
8TH ST COLLISION Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Id: FA0014250	8540 8TH ST	WSW 0 - 1/8 (0.025 mi.)	E12	24
8TH STREET BODY SHOP Facility Status: INACTIVE Facility Id: FA0007434	8540 8TH ST	WSW 0 - 1/8 (0.025 mi.)	E13	24
MASCO CONTRACTOR SER Facility Status: INACTIVE Facility Id: FA0010454 Facility Id: FA0006065	8855 BAKER AVE	WSW 0 - 1/8 (0.026 mi.)	E14	24
THE PIT STOP AUTO SE Facility Status: INACTIVE Facility Id: FA0006669	8680 8TH ST	WSW 0 - 1/8 (0.026 mi.)	F16	27
HIGHLAND AUTO, AIR & Facility Status: INACTIVE Facility Id: FA0011700 Facility Id: FA0002840	8560 8TH ST UNIT A	WSW 0 - 1/8 (0.028 mi.)	E22	32
QUALITY TRANSMISSION Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Status: INACTIVE Facility Id: FA0014477	8560 8TH ST STE B	WSW 0 - 1/8 (0.028 mi.)	E23	33
PRIMA AUTO REPAIR Facility Status: INACTIVE Facility Id: FA0005419	8580 8TH ST B	WSW 0 - 1/8 (0.028 mi.)	E26	35
PRIMA AUTO REPAIR AN Facility Status: INACTIVE Facility Id: FA0011448 Facility Id: FA0005287	8580 8TH ST A	WSW 0 - 1/8 (0.028 mi.)	E27	35
ONTARIO WELL #46 Facility Status: ACTIVE Facility Id: FA0012442	1670 E 8TH ST	WSW 0 - 1/8 (0.045 mi.)	F38	42
SEARING IND INC Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0006090	***8901 ARROW RTE***	***NE 1/8 - 1/4 (0.216 mi.)***	***N52***	***53***
M.S. FOOD STORE	***8514 VINEYARD AVE***	***NNE 1/8 - 1/4 (0.237 mi.)***	***O55***	***63***

Facility Status: ACTIVE
Facility Id: FA0004780

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHEU STEEL SUPPLY C Facility Status: ACTIVE Facility Id: FA0006066	***8830 VINEYARD AVE***	***0 - 1/8 (0.000 mi.)***	***D9***	***20***
THE AUTOSHOP Facility Status: ACTIVE Facility Id: FA0006650	8724 8TH ST	SE 0 - 1/8 (0.026 mi.)	G17	27
TRAYNOR'S VOLVO Facility Status: ACTIVE Facility Id: FA0006784	8600 8TH ST A	SW 0 - 1/8 (0.026 mi.)	H19	30
A AND A AUTO BODY Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Id: FA0015453	***8760 8TH ST***	***ESE 0 - 1/8 (0.027 mi.)***	***G21***	***31***
RUBEN'S AUTO COLLISI Facility Status: ACTIVE Facility Id: FA0014564	8660 8TH ST STE A	SW 0 - 1/8 (0.029 mi.)	F28	36
B & J'S ALL TUNE & L Facility Status: INACTIVE Facility Id: FA0001290 Facility Id: FA0004281	8660 8TH ST	SW 0 - 1/8 (0.029 mi.)	F29	36
BERTINO AUTOMOTIVE S Facility Status: ACTIVE Facility Id: FA0001431	8880 8TH ST	ESE 0 - 1/8 (0.031 mi.)	I30	37
AUTO TECH SERVICES Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0018136 Facility Id: FA0016181	***8808 8TH ST***	***ESE 0 - 1/8 (0.038 mi.)***	***J31***	***37***
OSHIRO'S AUTOMOTIVE Facility Status: INACTIVE Facility Id: FA0007864	8764 8TH ST	SE 0 - 1/8 (0.038 mi.)	G32	38
RELIABLE SMOG & AUTO Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0005664	8786 8TH ST	SE 0 - 1/8 (0.038 mi.)	G33	39
CITYWIDE AUTO REPAIR Facility Status: ACTIVE Facility Id: FA0017916	8820 8TH ST	ESE 0 - 1/8 (0.038 mi.)	J34	39
AL'S GARAGE Facility Status: INACTIVE Facility Id: FA0015488 Facility Id: FA0001592	8822 8TH ST	ESE 0 - 1/8 (0.038 mi.)	J35	39
KB COMPLETE AUTO REP Facility Status: ACTIVE Facility Status: INACTIVE	8846 8TH ST	ESE 0 - 1/8 (0.039 mi.)	I36	40

Facility Id: FA0013621 Facility Id: FA0007314				
AUTOHAUS MOTORSPORTS Facility Status: INACTIVE Facility Status: ACTIVE Facility Id: FA0013087 Facility Id: FA0016189 Facility Id: FA0003229	8730 VINEYARD AVE	ENE 0 - 1/8 (0.040 mi.)	K37	41
ADVANCED AUTO TECH Facility Status: ACTIVE Facility Id: FA0012784	8747 VINEYARD AVE UN	ENE 0 - 1/8 (0.059 mi.)	K40	42
WILSON & BELL AUTO S Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013619 Facility Id: FA0012786	8747 VINEYARD ST STE	ENE 0 - 1/8 (0.059 mi.)	K41	43
DEALER ALTERNATIVE S Facility Status: ACTIVE Facility Id: FA0012785	8747 VINEYARD AVE UN	ENE 0 - 1/8 (0.059 mi.)	K42	44
IMC BRANCH #17 Facility Status: ACTIVE Facility Id: FA0016221	***8840 FLOWER RD STE 1***	***E 0 - 1/8 (0.113 mi.)***	***46***	***46***
TRANSCENDIA, INC. Facility Status: ACTIVE Facility Id: FA0017350	9000 9TH ST STE 140	ENE 1/8 - 1/4 (0.197 mi.)	L50	51

PEST LIC: A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

A review of the PEST LIC list, as provided by EDR, and dated 12/03/2018 has revealed that there is 1 PEST LIC site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FERNANDO A RODRIGUEZ	***8847 9TH ST***	***0 - 1/8 (0.000 mi.)***	***7***	***19***

CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

A review of the CIWQS list, as provided by EDR, and dated 12/03/2018 has revealed that there is 1 CIWQS site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
24K INDUSTRIAL BUILD	***8705 & 8725 9TH STRE***	***0 - 1/8 (0.000 mi.)***	***B2***	***9***

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: 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 Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EARLS AUTOMOTIVE REP	8560 8TH ST A	WSW 0 - 1/8 (0.028 mi.)	E24	33
PERFORMANCE HONDA SE	8580 8TH ST STE A	WSW 0 - 1/8 (0.028 mi.)	E25	34

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRAYNORS VOLVO	8600 8TH ST	SW 0 - 1/8 (0.026 mi.)	H20	31
MOBIL INDUSTRIAL COA	1848 N PLACER AVE	SE 0 - 1/8 (0.070 mi.)	G43	44

EDR Hist Cleaner: 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 Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

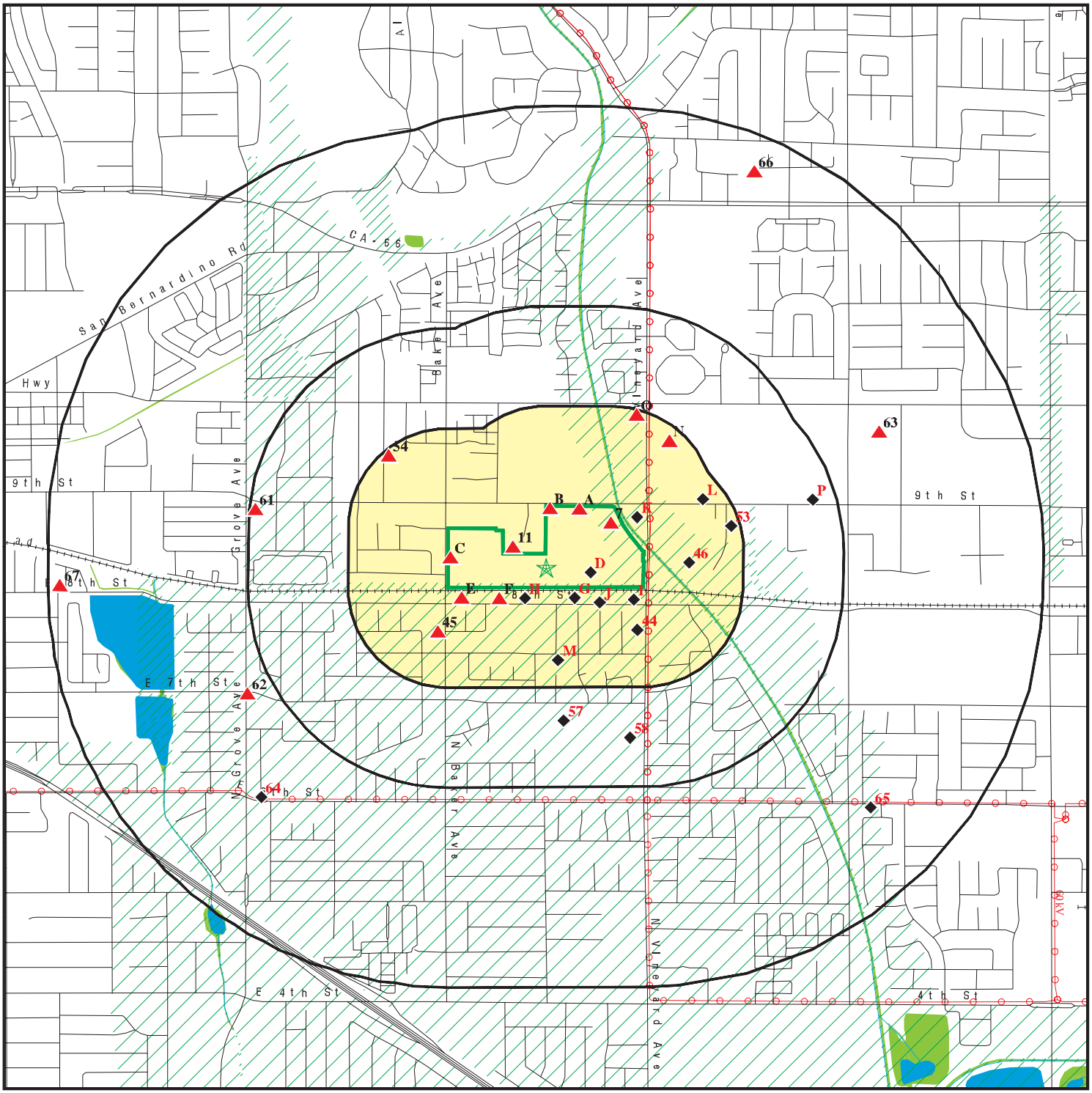
Lower Elevation	Address	Direction / Distance	Map ID	Page
EMPIRE CLEANERS	1859 N VINEYARD AVE	ESE 0 - 1/8 (0.107 mi.)	44	44

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
9TH STREET INDUSTRIAL	CIWQS
UPLAND LAUNDRY & CLEANERS	DRYCLEANERS, EMI

OVERVIEW MAP - 5567027.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Vineyard Avenue and 9th Street	CLIENT: Avocet Environmental, Inc.
ADDRESS: Vineyard Avenue and 9th Street Rancho Cucamonga CA 91730	CONTACT: Jessica Satterlee
LAT/LONG: 34.09333 / 117.615461	INQUIRY #: 5567027.2s DATE: February 19, 2019 11:03 pm

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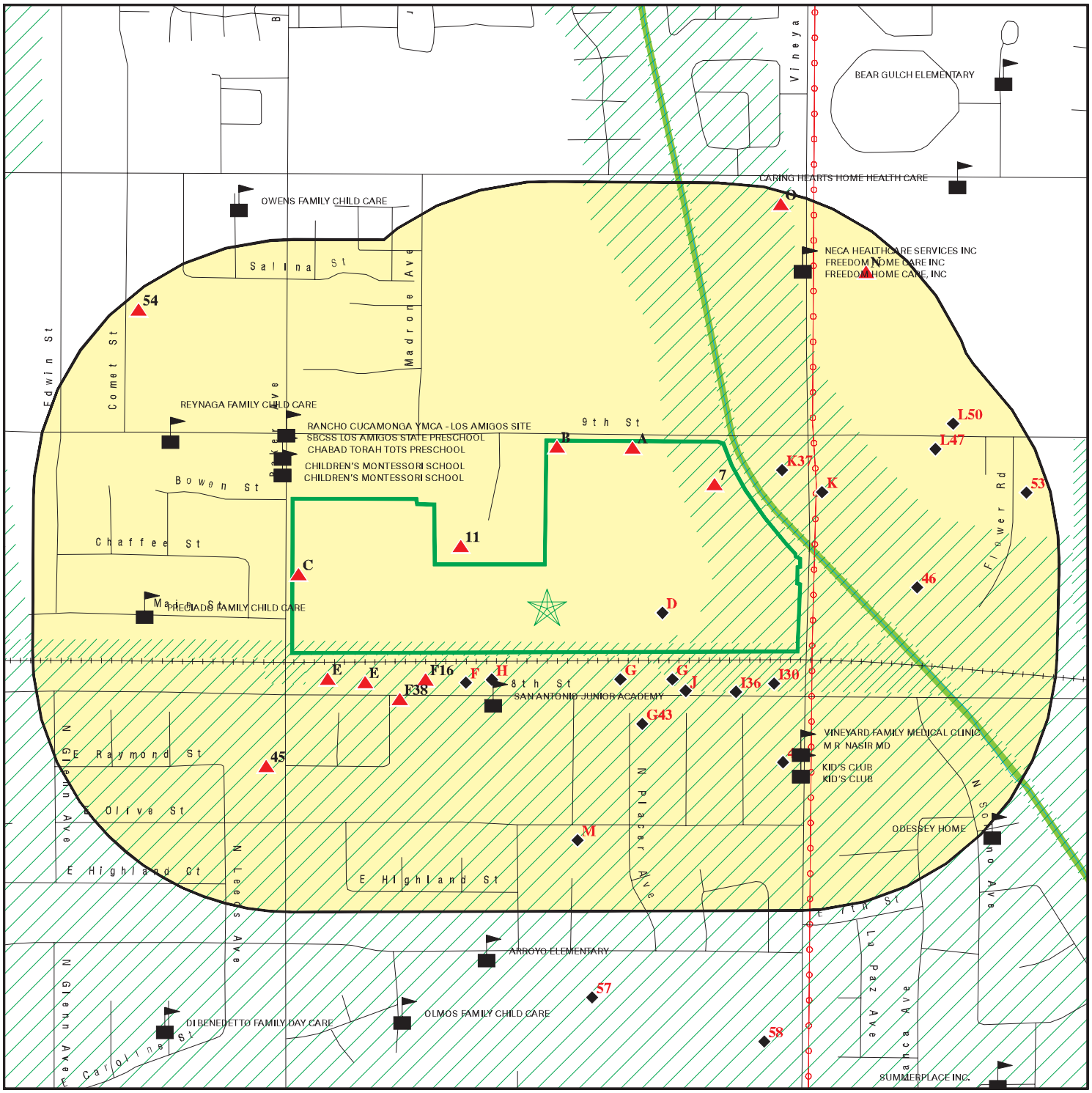
DETAIL MAP - 5567027.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Vineyard Avenue and 9th Street	CLIENT: Avocet Environmental, Inc.
ADDRESS: Vineyard Avenue and 9th Street Rancho Cucamonga CA 91730	CONTACT: Jessica Satterlee
LAT/LONG: 34.09333 / 117.615461	INQUIRY #: 5567027.2s
	DATE: February 19, 2019 11:05 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
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	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	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		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	2	NR	NR	NR	4
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	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	3	6	NR	9
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	1	NR	NR	NR	1
INDIAN 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
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		2	0	NR	NR	NR	2
HIST UST	0.250		3	0	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		2	0	NR	NR	NR	2
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		2	NR	NR	NR	NR	2
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		1	NR	NR	NR	NR	1
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		5	NR	NR	NR	NR	5
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	2	NR	NR	NR	2
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		1	NR	NR	NR	NR	1
San Bern. Co. Permit	0.250		28	3	NR	NR	NR	31
PEST LIC	0.001		1	NR	NR	NR	NR	1
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		1	NR	NR	NR	NR	1
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	53	11	7	6	0	77

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CHMIRS** **S109040975**
N/A

< 1/8
1 ft.

8729 9TH STREET CROSS OF VINEYARD AVE.
RANCHO CUCAMONGA, CA 91708

Site 1 of 2 in cluster A

Relative:
Higher

Actual:
1146 ft.

CHMIRS:

OES Incident Number:	6-4994
OES notification:	08/21/2006
OES Date:	Not reported
OES Time:	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:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Cucamonga Valley Water District, City of Rancho Cucamonga
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Cucamonga Valley Water District
Incident Date:	8/21/2006 12:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Road
E Date:	Not reported
Substance:	sewage
Gallons:	2500
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported

(Continued) **S109040975**

Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#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:	Contractor doing storm drain install for the city / took out the sewer main with an excavator / backhoe. They plugged the sewer main , which flooded out a business.When they unplugged it, all the sewage was contained in the sewage trench pit. Clean uup is in progress per the caller.

B2 **24K INDUSTRIAL BUILDING** **NPDES** **S118397626**
8705 & 8725 9TH STREET **CIWQS** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
1 ft.

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
1150 ft.

NPDES:

Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	465597
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C374376
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/23/2015
Termination Date Of Regulatory Measure:	08/10/2016
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	450 Newport Center Drive Suite 625
Discharge Name:	Summit Development Corporation
Discharge City:	Newport Beach
Discharge State:	California
Discharge Zip:	92660
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0

24K INDUSTRIAL BUILDING (Continued) **S118397626**

Region:	8
Regulatory Measure ID:	465597
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C374376
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/23/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/10/2016
Discharge Name:	Summit Development Corporation
Discharge Address:	450 Newport Center Drive Suite 625
Discharge City:	Newport Beach
Discharge State:	California
Discharge Zip:	92660
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

24K INDUSTRIAL BUILDING (Continued) **S118397626**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	465597
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 36C374376
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/10/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	10/15/2015
Processed Date:	10/23/2015
Status:	Terminated
Status Date:	09/29/2016
Place Size:	1.25
Place Size Unit:	Acres
Contact:	Bryan Bentrott
Contact Title:	LRP
Contact Phone:	949-655-8228
Contact Phone Ext:	Not reported
Contact Email:	donna@sumdevco.com
Operator Name:	Summit Development Corporation
Operator Address:	450 Newport Center Drive Suite 625
Operator City:	Newport Beach
Operator State:	California
Operator Zip:	92660
Operator Contact:	Bryan Bentrott
Operator Contact Title:	LRP
Operator Contact Phone:	949-655-8228
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	donna@sumdevco.com
Operator Type:	Private Business

24K INDUSTRIAL BUILDING (Continued) **S118397626**

Developer:	Summit Development Corporation
Developer Address:	450 Newport Center Drive Suite 625
Developer City:	Newport Beach
Developer State:	California
Developer Zip:	92660
Developer Contact:	Bryan Bentrott
Developer Contact Title:	LRP
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Cucamonga Creek, Mill Creek, Chino Creek, Prado Dam, Santa Ana River, Pacific Ocean
Certifier:	Bryan Bentrott
Certifier Title:	Principal
Certification Date:	15-OCT-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C374376
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated

24K INDUSTRIAL BUILDING (Continued) **S118397626**

Status Date:	09/29/2016
Operator Name:	Summit Development Corporation
Operator Address:	450 Newport Center Drive Suite 625
Operator City:	Newport Beach
Operator State:	California
Operator Zip:	92660

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	465597
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C374376
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/23/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/10/2016
Discharge Name:	Summit Development Corporation
Discharge Address:	450 Newport Center Drive Suite 625
Discharge City:	Newport Beach
Discharge State:	California
Discharge Zip:	92660
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported

24K INDUSTRIAL BUILDING (Continued) **S118397626**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	465597
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 36C374376
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/10/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	10/15/2015
Processed Date:	10/23/2015
Status:	Terminated
Status Date:	09/29/2016
Place Size:	1.25
Place Size Unit:	Acres
Contact:	Bryan Bentrott
Contact Title:	LRP
Contact Phone:	949-655-8228
Contact Phone Ext:	Not reported
Contact Email:	donna@sumdevco.com
Operator Name:	Summit Development Corporation

24K INDUSTRIAL BUILDING (Continued) **S118397626**

Operator Address:	450 Newport Center Drive Suite 625
Operator City:	Newport Beach
Operator State:	California
Operator Zip:	92660
Operator Contact:	Bryan Bentrott
Operator Contact Title:	LRP
Operator Contact Phone:	949-655-8228
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	donna@sumdevco.com
Operator Type:	Private Business
Developer:	Summit Development Corporation
Developer Address:	450 Newport Center Drive Suite 625
Developer City:	Newport Beach
Developer State:	California
Developer Zip:	92660
Developer Contact:	Bryan Bentrott
Developer Contact Title:	LRP
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Cucamonga Creek, Mill Creek, Chino Creek, Prado Dam, Santa Ana River, Pacific Ocean
Certifier:	Bryan Bentrott
Certifier Title:	Principal
Certification Date:	15-OCT-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Summit Development Corporation
Agency Address:	450 Newport Center Drive Suite 625, Newport Beach, CA 92660
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ

24K INDUSTRIAL BUILDING (Continued) **S118397626**

WDID:	8 36C374376
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/23/2015
Termination Date:	08/10/2016
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09528
Longitude:	-117.61516

A3 **CHMIRS** **S109040976**
N/A

< 1/8
1 ft.

8729 NINTH STREET
RANCHO CUCAMONGA, CA 91708

Site 2 of 2 in cluster A

Relative:
Higher

Actual:
1146 ft.

CHMIRS:

OES Incident Number:	6-5166
OES notification:	08/29/2006
OES Date:	Not reported
OES Time:	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:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported

(Continued) **S109040976**

Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Cucamonga Valley Water District
Incident Date:	8/28/2006 12:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Road
E Date:	Not reported
Substance:	Sewage
Gallons:	3000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#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:	Contractor installing storm drain for City, trench failed and took out the sewer main. All of the release was contained in the trench.

B4 **SUMMIT DEVELOPMENT CORPORATION** **HAZNET** **S120989355**
8705 9TH ST **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
1 ft.

Site 2 of 2 in cluster B

Relative: Higher
Actual: 1153 ft.

HAZNET:

envid:	S120989355
Year:	2016
GEPAID:	CAC002845427
Contact:	DONNA SHIN
Telephone:	9496558228
Mailing Name:	Not reported
Mailing Address:	450 NEWPORT CENTER DR STE 625
Mailing City,St,Zip:	NEWPORT BEACH, CA 926607649
Gen County:	San Bernardino
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	1.38
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

C5 **RANCHO CUCAMONGA PROPERTY** **HAZNET** **S121009337**
8817 BAKER AVE **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
1 ft.

Site 1 of 2 in cluster C

Relative:
Higher

Actual:
1155 ft.

HAZNET:

envid:	S121009337
Year:	2016
GEPAID:	CAC002876740
Contact:	DAWN KHANOYAN
Telephone:	9099828933
Mailing Name:	Not reported
Mailing Address:	PO BOX 250
Mailing City,St,Zip:	UPLAND, CA 91785
Gen County:	San Bernardino
TSD EPA ID:	AZC950823111
TSD County:	99
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	1.15
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

C6 **DENNIS MYSKOW** **HAZNET** **S113461429**
8803 BAKER AVE **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
1 ft.

Site 2 of 2 in cluster C

Relative:
Higher

Actual:
1156 ft.

HAZNET:

envid:	S113461429
Year:	2010
GEPAID:	CAC002655449
Contact:	DENNIS MYSKOW
Telephone:	9099356687
Mailing Name:	Not reported
Mailing Address:	8803 BAKER AVE
Mailing City,St,Zip:	RANCHO CUCAMONGA, CA 91730
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.608
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

7 **FERNANDO A RODRIGUEZ** **HAZNET** **S113461161**
8847 9TH ST **PEST LIC** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
1 ft.

Relative:
Higher

Actual:
1136 ft.

HAZNET:

envid:	S113461161
Year:	2010
GEPAID:	CAC002654987
Contact:	NERIANE RODRIGQUZ
Telephone:	8006454881
Mailing Name:	Not reported
Mailing Address:	1639 E EDINGER AVE STE C
Mailing City,St,Zip:	SANTA ANA, CA 92705
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.15
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

PEST LIC:

Facility Type:	QAL
Categories:	B
License No:	135467
Issued or Renewed Date:	01/01/2018
Expiration Date:	12/31/2019

D8 **SCHEU STEEL SUPPLY COMPANY** **FINDS** **1023314205**
8830 VINEYARD AVE **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
1 ft.

Site 1 of 3 in cluster D

Relative:
Lower

Actual:
1129 ft.

FINDS:

Registry ID: 110066072582

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

D9 **SCHEU STEEL SUPPLY COMPANY** **HIST UST** **U001569303**
8830 VINEYARD AVE **HAZNET** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730** **San Bern. Co. Permit**
1 ft.

Site 2 of 3 in cluster D

Relative:
Lower

Actual:
1129 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000043002
Facility Type:	Other
Other Type:	STEEL SERVICE CENTER
Contact Name:	DONALD E. PONDER, WHSE. OPERAT
Telephone:	7149821325
Owner Name:	SCHEU STEEL SUPPLY COMPANY
Owner Address:	8830 VINEYARD AVE.
Owner City,St,Zip:	CUCAMONGA, CA 91730
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	12
Leak Detection:	Stock Inventor

HAZNET:

envid:	U001569303
Year:	2016
GEPAID:	CAL000377968
Contact:	JASON LEWALLEN
Telephone:	9099821325
Mailing Name:	Not reported
Mailing Address:	PO BOX 250
Mailing City,St,Zip:	UPLAND, CA 917850000
Gen County:	San Bernardino
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino
envid:	U001569303

SCHEU STEEL SUPPLY COMPANY (Continued) **U001569303**

Year:	2013
GEPAID:	CAL000377968
Contact:	Daniel Quinonez
Telephone:	9099821325
Mailing Name:	Not reported
Mailing Address:	PO Box 250
Mailing City,St,Zip:	Upland, CA 917850000
Gen County:	San Bernardino
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.417
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0006066
Owner:	SCHEU Corp
Permit Number:	PT0006003
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	08/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0006066
Owner:	SCHEU Corp
Permit Number:	PT0025497
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	08/31/2019

D10 **SCHEU STEEL SUPPLY COMPANY** **SWEEPS UST** **S101618872**
8830 VINEYARD AVE **HIST UST** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730** **CA FID UST**
1 ft.

Site 3 of 3 in cluster D

Relative:
Lower

Actual:
1129 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	43002
Number:	Not reported
Board Of Equalization:	44-021025
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043002-000001
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL

SCHEU STEEL SUPPLY COMPANY (Continued) **S101618872**

Number Of Tanks: 2

Status: Not reported
Comp Number: 43002
Number: Not reported
Board Of Equalization: 44-021025
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043002-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 43002
Number: 1
Board Of Equalization: 44-021025
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 0002A5F4
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A5F4.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported

SCHEU STEEL SUPPLY COMPANY (Continued) **S101618872**

Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	36008995
Regulated By:	UTNKA
Regulated ID:	00043002
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	8830 VINEYARD AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	RANCHO CUCAMONGA 91730
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

11
NW
< 1/8
0.018 mi.
94 ft.

KENNAMETAL **San Bern. Co. Permit** **S109427966**
8782 LANYARD CT **N/A**
RANCHO CUCAMONGA, CA 91730

Relative:
Higher

Actual:
1148 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0011520
Owner:	KENNAMETAL
Permit Number:	PT0021667
Permit Category:	HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	04/30/2011

Region:	SAN BERNARDINO
Facility ID:	FA0011520
Owner:	KENNAMETAL
Permit Number:	PT0021665
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	04/30/2011

Region:	SAN BERNARDINO
Facility ID:	FA0011520
Owner:	KENNAMETAL
Permit Number:	PT0021666
Permit Category:	CE ANNUAL FEE
Facility Status:	INACTIVE
Expiration Date:	04/30/2010

E12 WSW < 1/8 0.025 mi. 132 ft. — **8TH ST COLLISION** — **San Bern. Co. Permit** — **S111456409** / **N/A**

8540 8TH ST
RANCHO CUCAMONGA, CA 91730

Site 1 of 10 in cluster E

Relative: Higher
Actual: 1143 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0014250
Owner:	REYES, JESUS
Permit Number:	PT0025041
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	03/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0014250
Owner:	REYES, JESUS
Permit Number:	PT0025040
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	FEE EXEMPT
Expiration Date:	03/31/2013

E13 WSW < 1/8 0.025 mi. 132 ft. — **8TH STREET BODY SHOP** — **San Bern. Co. Permit** — **S104772647** / **N/A**

8540 8TH ST
RANCHO CUCAMONGA, CA 91730

Site 2 of 10 in cluster E

Relative: Higher
Actual: 1143 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0007434
Owner:	JASSO, AZALEA
Permit Number:	PT0006317
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	11/30/2009

Region:	SAN BERNARDINO
Facility ID:	FA0007434
Owner:	JASSO, AZALEA
Permit Number:	PT0006318
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2009

E14 WSW < 1/8 0.026 mi. 137 ft. — **MASCO CONTRACTOR SERVICES** — **San Bern. Co. Permit** — **S103675104** / **N/A**

8855 BAKER AVE
RANCHO CUCAMONGA, CA 91730

Site 3 of 10 in cluster E

Relative: Higher
Actual: 1143 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0010454
Owner:	MASCO CONTRACTOR SERVICES
Permit Number:	PT0017769
Permit Category:	HAZMAT HANDLER 11-25 EMPLOYEES

MASCO CONTRACTOR SERVICES (Continued) **S103675104**

Facility Status: INACTIVE
Expiration Date: 05/31/2013

Region: SAN BERNARDINO
Facility ID: FA0006065
Owner: SCHEU, LELAND C.
Permit Number: PT0008112
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2004

Region: SAN BERNARDINO
Facility ID: FA0006065
Owner: SCHEU, LELAND C.
Permit Number: PT0008113
Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 11/30/2004

E15
WSW
< 1/8
0.026 mi.
137 ft.

COLUMBIA RIBBON CARBON MFG CO **RCRA-SQG** **1000425966**
8855 BAKER AVE **FINDS** **CAD057775785**
CUCAMONGA, CA 91730 **ECHO**

Site 4 of 10 in cluster E

Relative:
Higher

Actual:
1143 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: COLUMBIA RIBBON CARBON MFG CO
Facility address: 8855 BAKER AVE
CUCAMONGA, CA 91730
EPA ID: CAD057775785
Mailing address: PO BOX 787
CUCAMONGA, CA 91730
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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: ED B. ORY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

COLUMBIA RIBBON CARBON MFG CO (Continued) **1000425966**

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
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
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

Historical Generators:
Date form received by agency: 08/18/1980
Site name: COLUMBIA RIBBON CARBON MFG CO
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002651372

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

COLUMBIA RIBBON CARBON MFG CO (Continued) **1000425966**

ECHO:
Envid: 1000425966
Registry ID: 110002651372
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002651372

F16
WSW
< 1/8
0.026 mi.
137 ft.

THE PIT STOP AUTO SERVICE
8680 8TH ST
RANCHO CUCAMONGA, CA 91730

San Bern. Co. Permit **S106911141**
N/A

Site 1 of 4 in cluster F

Relative:
Higher

Actual:
1138 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0006669
Owner: REY GOCO
Permit Number: PT0000195
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 12/31/2002

Region: SAN BERNARDINO
Facility ID: FA0006669
Owner: REY GOCO
Permit Number: PT0000197
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 12/31/2002

G17
SE
< 1/8
0.026 mi.
139 ft.

THE AUTOSHOP
8724 8TH ST
RANCHO CUCAMONGA, CA 91730

San Bern. Co. Permit **S104771036**
N/A

Site 1 of 6 in cluster G

Relative:
Lower

Actual:
1124 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0006650
Owner: DAVIS, ALAN
Permit Number: PT0009653
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2019

Region: SAN BERNARDINO
Facility ID: FA0006650
Owner: DAVIS, ALAN
Permit Number: PT0009651
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2019

G18	**HOWARDS CAR CRAFT**	**RCRA-SQG**	**1000155216**
SE	**8724 8TH ST**	**FINDS**	**CAD982374480**
< 1/8	**RANCHO CUCAMONGA, CA 91730**	**ECHO**	
0.026 mi.		**EMI**	
139 ft.	**Site 2 of 6 in cluster G**	**HAZNET**	

Relative:
Lower

Actual:
1124 ft.

RCRA-SQG:

Date form received by agency:	04/03/1988
Facility name:	HOWARDS CAR CRAFT
Facility address:	8724 8TH ST RANCHO CUCAMONGA, CA 91730
EPA ID:	CAD982374480
Mailing address:	8724 EIGHTH STREET RANCHO CACAMONGA, CA 91730
Contact:	ENVIRONMENTAL MANAGER
Contact address:	8724 EIGHTH ST RANCHO CUCAMONGA, CA 91730
Contact country:	US
Contact telephone:	714-982-3433
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:	JOHN HOWARD
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
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
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
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

HOWARDS CAR CRAFT (Continued) **1000155216**

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: 110002803654

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000155216
Registry ID: 110002803654
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002803654

EMI:
Year: 1987
County Code: 36
Air Basin: SC
Facility ID: 56994
Air District Name: SC
SIC Code: 9999
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 and Smllr Tons/Yr: 0

Year: 1990
County Code: 36

HOWARDS CAR CRAFT (Continued) **1000155216**

Air Basin:	SC
Facility ID:	56994
Air District Name:	SC
SIC Code:	7538
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:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

envid:	1000155216
Year:	1995
GEPAID:	CAD982374480
Contact:	HOWARDS CAR CRAFT
Telephone:	7149823433
Mailing Name:	Not reported
Mailing Address:	8724 8TH ST
Mailing City,St,Zip:	RANCHO CUCAMONGA, CA 917304303
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Recycler
Tons:	1.6263
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

H19 **TRAYNOR'S VOLVO** **San Bern. Co. Permit** **S104771350**
SW **8600 8TH ST A** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
0.026 mi.
139 ft. **Site 1 of 3 in cluster H**

Relative:
Lower

Actual:
1132 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0006784
Owner:	Tim Traynor
Permit Number:	PT0006274
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	11/30/2019

Region:	SAN BERNARDINO
Facility ID:	FA0006784
Owner:	Tim Traynor
Permit Number:	PT0006275
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	11/30/2019

H20 SW < 1/8 0.026 mi. 139 ft. | **TRAYNORS VOLVO** | **EDR Hist Auto** | **1020621139** | **N/A**

8600 8TH ST
RANCHO CUCAMONGA, CA 91730

Site 2 of 3 in cluster H

Relative: Lower

Actual: 1132 ft.

EDR Hist Auto

Year:	Name:	Type:
1993	GC TRANSMISSIONS	Automotive Transmission Repair Shops
1994	GC TRANSMISSIONS	Automotive Transmission Repair Shops
1995	TRAYNORS VOLVO	General Automotive Repair Shops
1995	GC TRANSMISSIONS	Automotive Transmission Repair Shops
1996	TRAYNORS VOLVO	General Automotive Repair Shops
1997	TRAYNORS VOLVO	General Automotive Repair Shops
1998	TRAYNORS VOLVO	General Automotive Repair Shops
1999	TRAYNORS VOLVO	General Automotive Repair Shops
2000	TRAYNORS VOLVO	General Automotive Repair Shops
2001	TRAYNORS VOLVO	General Automotive Repair Shops
2002	TRAYNORS VOLVO	General Automotive Repair Shops
2003	TRAYNORS VOLVO	General Automotive Repair Shops
2004	TRAYNORS VOLVO	General Automotive Repair Shops
2005	TRAYNORS VOLVO	General Automotive Repair Shops
2006	TRAYNORS VOLVO	General Automotive Repair Shops
2007	TRAYNORS VOLVO	General Automotive Repair Shops
2008	TRAYNORS VOLVO	General Automotive Repair Shops
2009	TRAYNORS VOLVO	General Automotive Repair Shops
2010	TRAYNORS VOLVO	General Automotive Repair Shops
2011	TRAYNORS VOLVO	General Automotive Repair Shops
2013	TRAYNORS VOLVO	General Automotive Repair Shops

G21 ESE < 1/8 0.027 mi. 140 ft. | **A AND A AUTO BODY** | **HAZNET** | **S113087229** | **San Bern. Co. Permit** | **N/A**

8760 8TH ST
RANCHO CUCAMONGA, CA 91730

Site 3 of 6 in cluster G

Relative: Lower

Actual: 1122 ft.

HAZNET:

envid:	S113087229
Year:	1997
GEPAID:	CAL000162960
Contact:	A AND A AUTO BODY
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	8760 8TH ST
Mailing City,St,Zip:	RANCHO CUCAMONGA, CA 917304303
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Transfer Station
Tons:	.4585
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0015453

A AND A AUTO BODY (Continued) **S113087229**

Owner: Akrm Ibrahim
Permit Number: PT0033912
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 05/31/2019

Region: SAN BERNARDINO
Facility ID: FA0015453
Owner: Akrm Ibrahim
Permit Number: PT0037105
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: FEE EXEMPT
Expiration Date: 05/31/2017

E22
WSW
< 1/8
0.028 mi.
149 ft.

HIGHLAND AUTO, AIR & RADIATOR **San Bern. Co. Permit** **S104765948**
8560 8TH ST UNIT A **N/A**
RANCHO CUCAMONGA, CA 91730

Site 5 of 10 in cluster E

Relative:
Higher

Actual:
1141 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0011700
Owner: GEORGE "RON" ANTHONY
Permit Number: PT0020279
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 08/31/2018

Region: SAN BERNARDINO
Facility ID: FA0011700
Owner: GEORGE "RON" ANTHONY
Permit Number: PT0020280
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 08/31/2013

Region: SAN BERNARDINO
Facility ID: FA0002840
Owner: SMITH, JOSEPH E.
Permit Number: PT0004912
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2008

Region: SAN BERNARDINO
Facility ID: FA0002840
Owner: SMITH, JOSEPH E.
Permit Number: PT0004913
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2008

E23 WSW < 1/8 0.028 mi. 149 ft. | **QUALITY TRANSMISSION** | **San Bern. Co. Permit** | **S111082111**
8560 8TH ST STE B | **N/A**
RANCHO CUCAMONGA, CA 91730

Site 6 of 10 in cluster E

Relative: Higher

Actual: 1141 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0014477
Owner:	COBOS, GUSTAVO
Permit Number:	PT0025378
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	04/30/2019

Region:	SAN BERNARDINO
Facility ID:	FA0014477
Owner:	COBOS, GUSTAVO
Permit Number:	PT0025377
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	FEE EXEMPT
Expiration Date:	04/30/2015

Region:	SAN BERNARDINO
Facility ID:	FA0014477
Owner:	COBOS, GUSTAVO
Permit Number:	PT0034484
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	INACTIVE
Expiration Date:	04/30/2015

E24 WSW < 1/8 0.028 mi. 149 ft. | **EARLS AUTOMOTIVE REPAIR** | **EDR Hist Auto** | **1021237270**
8560 8TH ST A | **N/A**
RANCHO CUCAMONGA, CA 91730

Site 7 of 10 in cluster E

Relative: Higher

Actual: 1141 ft.

EDR Hist Auto

Year:	Name:	Type:
1991	ONE STOP AUTO BODY	General Automotive Repair Shops
1991	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1992	ONE STOP AUTO BODY	General Automotive Repair Shops
1992	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1993	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1994	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1995	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1996	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1996	PRIMA AUTO REPAIR	General Automotive Repair Shops
1997	PRIMA AUTO REPAIR	General Automotive Repair Shops
1997	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1998	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1998	PRIMA AUTO REPAIR	General Automotive Repair Shops
1999	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
1999	PRIMA AUTO REPAIR	General Automotive Repair Shops
2000	PRIMA AUTO REPAIR	General Automotive Repair Shops
2000	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2001	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2001	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2001	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops

EARLS AUTOMOTIVE REPAIR (Continued) **1021237270**

2001	PRIMA AUTO REPAIR	General Automotive Repair Shops
2002	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2002	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2003	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2003	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2004	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2004	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2005	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2005	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2006	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2006	QUALITY TRANSMISSION & AUTO RE	Automotive Transmission Repair Shops
2007	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2007	EARLS AUTOMOTIVE REPAIR	General Automotive Repair Shops
2008	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops
2008	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2009	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2009	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops
2010	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops
2010	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2011	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops
2011	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2012	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops
2012	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2013	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2013	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops
2014	QUALITY TRANSM & AUTO REPR	Automotive Transmission Repair Shops
2014	HIGHLAND AUTOMOTIVE INC	General Automotive Repair Shops

E25 **PERFORMANCE HONDA SERVICE** **EDR Hist Auto** **1020508983**
WSW **8580 8TH ST STE A** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
0.028 mi.
150 ft. **Site 8 of 10 in cluster E**

Relative: EDR Hist Auto
Higher

Actual:
1141 ft.

Year:	Name:	Type:
1993	PATRICIAS &S&M	General Automotive Repair Shops
1994	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
1995	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
1996	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
1997	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
1998	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
1999	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
2000	PERFORMANCE HONDA SERVICE	General Automotive Repair Shops
2002	PRIMA AUTO REPAIR	General Automotive Repair Shops
2003	PRIMA AUTO REPAIR	General Automotive Repair Shops
2004	PRIMA AUTO REPAIR	General Automotive Repair Shops
2005	PRIMA AUTO REPAIR	General Automotive Repair Shops
2006	PRIMA AUTO REPAIR	General Automotive Repair Shops
2007	PRIMA AUTO REPAIR	General Automotive Repair Shops
2009	DEAPO AUTO CARE	General Automotive Repair Shops
2011	AUTO PROS PERFORMANCE	General Automotive Repair Shops
2012	EMPIRE TRANSMISSION	Automotive Transmission Repair Shops
2012	AUTO PROS PERFORMANCE	General Automotive Repair Shops
2013	AUTO PROS PERFORMANCE	General Automotive Repair Shops
2013	EMPIRE TRANSMISSION	Automotive Transmission Repair Shops
2014	AUTO PROS PERFORMANCE	General Automotive Repair Shops

PERFORMANCE HONDA SERVICE (Continued) **1020508983**

2014 EMPIRE TRANSMISSION Automotive Transmission Repair Shops

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E26
WSW
< 1/8
0.028 mi.
150 ft.

PRIMA AUTO REPAIR
8580 8TH ST B
RANCHO CUCAMONGA, CA 91730

San Bern. Co. Permit **S106112238**
N/A

Site 9 of 10 in cluster E

Relative:
Higher

Actual:
1141 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0005419
Owner:	VEBY MOGI
Permit Number:	PT0000196
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	12/31/2008

Region:	SAN BERNARDINO
Facility ID:	FA0005419
Owner:	VEBY MOGI
Permit Number:	PT0000194
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	12/31/2008

E27
WSW
< 1/8
0.028 mi.
150 ft.

PRIMA AUTO REPAIR AND SERVICE
8580 8TH ST A
RANCHO CUCAMONGA, CA 91730

San Bern. Co. Permit **S106911028**
N/A

Site 10 of 10 in cluster E

Relative:
Higher

Actual:
1141 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0011448
Owner:	OSORIO, JOSE
Permit Number:	PT0019828
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	03/31/2008

Region:	SAN BERNARDINO
Facility ID:	FA0011448
Owner:	OSORIO, JOSE
Permit Number:	PT0019827
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	03/31/2008

Region:	SAN BERNARDINO
Facility ID:	FA0005287
Owner:	ELIPIDIO FREGOSO
Permit Number:	PT0009853
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	12/31/2002

PRIMA AUTO REPAIR AND SERVICE (Continued) **S106911028**

Region: SAN BERNARDINO
Facility ID: FA0005287
Owner: ELIPIDIO FREGOSO
Permit Number: PT0000193
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 12/31/2002

F28
SW
< 1/8
0.029 mi.
154 ft.

RUBEN'S AUTO COLLISION CENTER **San Bern. Co. Permit** **S110373787**
8660 8TH ST STE A **N/A**
RANCHO CUCAMONGA, CA 91730

Site 2 of 4 in cluster F

Relative:
Lower

Actual:
1133 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0014564
Owner: RODRIGUEZ, RUBEN
Permit Number: PT0025434
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2019

Region: SAN BERNARDINO
Facility ID: FA0014564
Owner: RODRIGUEZ, RUBEN
Permit Number: PT0025433
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2019

F29
SW
< 1/8
0.029 mi.
154 ft.

B & J'S ALL TUNE & LUBE **San Bern. Co. Permit** **S104767608**
8660 8TH ST **N/A**
RANCHO CUCAMONGA, CA 91730

Site 3 of 4 in cluster F

Relative:
Lower

Actual:
1133 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0001290
Owner: ELLIOTT, MARTY
Permit Number: PT0010105
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2005

Region: SAN BERNARDINO
Facility ID: FA0001290
Owner: ELLIOTT, MARTY
Permit Number: PT0010104
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2005

Region: SAN BERNARDINO
Facility ID: FA0004281

B & J'S ALL TUNE & LUBE (Continued) **S104767608**

Owner: JEFFREY, KERRY
Permit Number: PT0000395
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2003

I30
ESE
< 1/8
0.031 mi.
164 ft.

BERTINO AUTOMOTIVE SERVICES
8880 8TH ST
RANCHO CUCAMONGA, CA 91730

San Bern. Co. Permit **S104764257**
N/A

Site 1 of 2 in cluster I

Relative:
Lower

Actual:
1119 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0001431
Owner: BERTINO, CHARLES
Permit Number: PT0007726
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 10/31/2019

Region: SAN BERNARDINO
Facility ID: FA0001431
Owner: BERTINO, CHARLES
Permit Number: PT0007727
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2019

J31
ESE
< 1/8
0.038 mi.
199 ft.

AUTO TECH SERVICES
8808 8TH ST
RANCHO CUCAMONGA, CA 91730

HAZNET **S113123367**
San Bern. Co. Permit **N/A**

Site 1 of 3 in cluster J

Relative:
Lower

Actual:
1123 ft.

HAZNET:
envid: S113123367
Year: 2008
GEPAID: CAL000262509
Contact: JOSE MIRANDA
Telephone: 9099461898
Mailing Name: Not reported
Mailing Address: 8808 8TH ST
Mailing City,St,Zip: RANCHO CUCAMONGA, CA 917304304
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.564
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

AUTO TECH SERVICES (Continued) **S113123367**

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0018136
Owner: TRAN, WILLIAM
Permit Number: PT0039221
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 01/31/2020

Region: SAN BERNARDINO
Facility ID: FA0018136
Owner: TRAN, WILLIAM
Permit Number: PT0039220
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 01/31/2020

Region: SAN BERNARDINO
Facility ID: FA0016181
Owner: Mission Collision And Motoring, LLC
Permit Number: PT0034939
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 08/31/2019

Region: SAN BERNARDINO
Facility ID: FA0016181
Owner: Mission Collision And Motoring, LLC
Permit Number: PT0037484
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 08/31/2017

G32 **OSHIRO'S AUTOMOTIVE** **San Bern. Co. Permit** **S105974370**
SE **8764 8TH ST** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
0.038 mi.
200 ft. **Site 4 of 6 in cluster G**

Relative:
Lower

Actual:
1122 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0007864
Owner: OSHIRO, YUKI B.
Permit Number: PT0013732
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2004

Region: SAN BERNARDINO
Facility ID: FA0007864
Owner: OSHIRO, YUKI B.
Permit Number: PT0013731
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2004

G33 SE < 1/8 0.038 mi. 201 ft. — **RELIABLE SMOG & AUTO REPAIR**, **8786 8TH ST**, **RANCHO CUCAMONGA, CA 91730** — **San Bern. Co. Permit** — **S104905435** / **N/A**

Site 5 of 6 in cluster G

Relative: Lower
Actual: 1122 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0005664
Owner:	BOTROS, ALBERT A.
Permit Number:	PT0009852
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	12/31/2018

Region:	SAN BERNARDINO
Facility ID:	FA0005664
Owner:	BOTROS, ALBERT A.
Permit Number:	PT0009855
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	12/31/2013

J34 ESE < 1/8 0.038 mi. 201 ft. — **CITYWIDE AUTO REPAIR**, **8820 8TH ST**, **RANCHO CUCAMONGA, CA 91730** — **San Bern. Co. Permit** — **S122499464** / **N/A**

Site 2 of 3 in cluster J

Relative: Lower
Actual: 1122 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0017916
Owner:	ASHRAF JAARA
Permit Number:	PT0038699
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0017916
Owner:	ASHRAF JAARA
Permit Number:	PT0038698
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

J35 ESE < 1/8 0.038 mi. 201 ft. — **AL'S GARAGE**, **8822 8TH ST**, **RANCHO CUCAMONGA, CA 91730** — **San Bern. Co. Permit** — **S104764414** / **N/A**

Site 3 of 3 in cluster J

Relative: Lower
Actual: 1122 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0015488
Owner:	DEL RIO, JESUS E.
Permit Number:	PT0037094
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS

AL'S GARAGE (Continued) **S104764414**

Facility Status: INACTIVE
Expiration Date: 08/31/2018

Region: SAN BERNARDINO
Facility ID: FA0015488
Owner: DEL RIO, JESUS E.
Permit Number: PT0033994
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2018

Region: SAN BERNARDINO
Facility ID: FA0001592
Owner: BTC AUTO REPAIR
Permit Number: PT0004928
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 11/30/2013

Region: SAN BERNARDINO
Facility ID: FA0001592
Owner: BTC AUTO REPAIR
Permit Number: PT0004929
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2013

I36 **KB COMPLETE AUTO REPAIR** **San Bern. Co. Permit** **S104772393**
ESE **8846 8TH ST** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91730**
0.039 mi.
205 ft. **Site 2 of 2 in cluster I**

Relative:
Lower

Actual:
1119 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0013621
Owner: JUMANA GULAMHUSSEIN
Permit Number: PT0023903
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2019

Region: SAN BERNARDINO
Facility ID: FA0013621
Owner: JUMANA GULAMHUSSEIN
Permit Number: PT0023904
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2019

Region: SAN BERNARDINO
Facility ID: FA0007314
Owner: WILSON, ROSS
Permit Number: PT0004930
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2011

KB COMPLETE AUTO REPAIR (Continued) **S104772393**

Region: SAN BERNARDINO
Facility ID: FA0007314
Owner: WILSON, ROSS
Permit Number: PT0004931
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2011

K37 **AUTOHAUS MOTORSPORTS INC** **San Bern. Co. Permit** **S105698080**
ENE **8730 VINEYARD AVE** **N/A**
< 1/8 **ADELANTO, CA 91730**
0.040 mi.
211 ft. **Site 1 of 4 in cluster K**

Relative:
Lower

Actual:
1134 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0013087
Owner: AUTOHAUS MOTORSPORTS INC
Permit Number: PT0023004
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2011

Region: SAN BERNARDINO
Facility ID: FA0013087
Owner: AUTOHAUS MOTORSPORTS INC
Permit Number: PT0023005
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2011

Region: SAN BERNARDINO
Facility ID: FA0016189
Owner: kiro pacfic
Permit Number: PT0034950
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 08/31/2019

Region: SAN BERNARDINO
Facility ID: FA0016189
Owner: kiro pacfic
Permit Number: PT0034951
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 08/31/2019

Region: SAN BERNARDINO
Facility ID: FA0003229
Owner: REYNOSO, GEORGE
Permit Number: PT0010025
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2009

F38 WSW < 1/8 0.045 mi. 236 ft. | **ONTARIO WELL #46**
1670 E 8TH ST
ONTARIO, CA 91764
Site 4 of 4 in cluster F | **San Bern. Co. Permit** | **S121309814**
N/A

Relative: Higher
Actual: 1137 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0012442
Owner:	City of Ontario
Permit Number:	PT0021924
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	11/30/2019

H39 SSW < 1/8 0.045 mi. 240 ft. | **ONTARIO SEVENTH-DAY ADVENTIST**
1722 EAST 8TH STREET
ONTARIO, CA 91764
Site 3 of 3 in cluster H | **HIST UST** | **U001570245**
N/A

Relative: Lower
Actual: 1130 ft.

HIST UST:

File Number:	0002A67C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A67C.pdf
Region:	STATE
Facility ID:	00000013347
Facility Type:	Other
Other Type:	SCHOOL
Contact Name:	DORIS WOLTER
Telephone:	7149822301
Owner Name:	SOUTHEASTERN CALIFORNIA ASSOCI
Owner Address:	11330 PIERCE STREET
Owner City,St,Zip:	ONTARIO, CA 91764
Total Tanks:	0001
Tank Num:	001
Container Num:	0000000001
Year Installed:	1963
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

K40 ENE < 1/8 0.059 mi. 310 ft. | **ADVANCED AUTO TECH**
8747 VINEYARD AVE UNIT 160
RANCHO CUCAMONGA, CA 91730
Site 2 of 4 in cluster K | **San Bern. Co. Permit** | **S109849381**
N/A

Relative: Lower
Actual: 1132 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0012784
Owner:	RAMIREZ, BENNY
Permit Number:	PT0022334
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS

ADVANCED AUTO TECH (Continued) **S109849381**

Facility Status: ACTIVE
Expiration Date: 10/31/2019

Region: SAN BERNARDINO
Facility ID: FA0012784
Owner: RAMIREZ, BENNY
Permit Number: PT0022335
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2019

K41
ENE
< 1/8
0.059 mi.
310 ft.

WILSON & BELL AUTO SERVICE
8747 VINEYARD ST STE 110
RANCHO CUCAMONGA, CA 91730

San Bern. Co. Permit **S109849383**
N/A

Site 3 of 4 in cluster K

Relative:
Lower

Actual:
1132 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0013619
Owner: WILSON, ROSS
Permit Number: PT0023898
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2019

Region: SAN BERNARDINO
Facility ID: FA0013619
Owner: WILSON, ROSS
Permit Number: PT0023899
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2019

Region: SAN BERNARDINO
Facility ID: FA0012786
Owner: HADDAD, YAZ
Permit Number: PT0022338
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 10/31/2010

Region: SAN BERNARDINO
Facility ID: FA0012786
Owner: HADDAD, YAZ
Permit Number: PT0022339
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 10/31/2010

K42 ENE < 1/8 0.059 mi. 310 ft. — **DEALER ALTERNATIVE SOLUTIONS, LLC**, **8747 VINEYARD AVE UNIT 180**, **RANCHO CUCAMONGA, CA 91730** — **San Bern. Co. Permit** — **S109849382** / **N/A**

Site 4 of 4 in cluster K

Relative: Lower
Actual: 1132 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0012785
Owner:	MENDEZ, ROBERT
Permit Number:	PT0022336
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0012785
Owner:	MENDEZ, ROBERT
Permit Number:	PT0022337
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	10/31/2019

G43 SE < 1/8 0.070 mi. 368 ft. — **MOBIL INDUSTRIAL COATING**, **1848 N PLACER AVE**, **ONTARIO, CA 91764** — **EDR Hist Auto** — **1021877328** / **N/A**

Site 6 of 6 in cluster G

Relative: Lower
Actual: 1119 ft.

EDR Hist Auto

Year:	Name:	Type:
2011	MOBIL INDUSTRIAL COATING	Gasoline Service Stations, NEC
2012	MOBIL INDUSTRIAL COATING	Gasoline Service Stations, NEC
2013	MOBIL INDUSTRIAL COATING	Gasoline Service Stations, NEC
2014	MOBIL INDUSTRIAL COATING	Gasoline Service Stations, NEC

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44 ESE < 1/8 0.107 mi. 564 ft. — **EMPIRE CLEANERS**, **1859 N VINEYARD AVE**, **ONTARIO, CA 91764** — **EDR Hist Cleaner** — **1019982166** / **N/A**

Relative: Lower
Actual: 1110 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2000	EMPIRE CLEANERS	Drycleaning Plants, Except Rugs

45 WSW < 1/8 0.112 mi. 591 ft. | **PERALEZ, FRANK J**
1829 N BAKER
ONTARIO, CA 91764 | **SWEEPS UST**
CA FID UST | **S101591700**
N/A

Relative: Higher

Actual: 1136 ft.

SWEEPS UST:

Status:	Active
Comp Number:	14777
Number:	2
Board Of Equalization:	44-020577
Referral Date:	09-04-91
Action Date:	09-04-91
Created Date:	09-14-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-014777-000001
Tank Status:	A
Capacity:	1
Active Date:	09-14-88
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	2

Status:	Active
Comp Number:	14777
Number:	2
Board Of Equalization:	44-020577
Referral Date:	09-04-91
Action Date:	09-04-91
Created Date:	09-14-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-014777-000002
Tank Status:	A
Capacity:	1
Active Date:	09-14-88
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	36008688
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	1074 CARBON CANYON RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	ONTARIO 91764
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

46 East < 1/8 0.113 mi. 597 ft. | **IMC BRANCH #17**
8840 FLOWER RD STE 130
RANCHO CUCAMONGA, CA 91730 | **HAZNET**
San Bern. Co. Permit | **S113467751**
N/A

Relative: Lower

Actual: 1119 ft.

HAZNET:

envid:	S113467751
Year:	2017
GEPAID:	CAL000408649
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	123 S FRONT ST DEPT 8190
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	San Bernardino
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Alkaline solution without metals pH >= 12.5
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.011
Cat Decode:	Alkaline solution without metals pH >= 12.5
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino

envid:	S113467751
Year:	2017
GEPAID:	CAL000408649
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	123 S FRONT ST DEPT 8190
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	San Bernardino
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.015
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Bernardino

envid:	S113467751
Year:	2017
GEPAID:	CAL000408649
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	123 S FRONT ST DEPT 8190
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	San Bernardino
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Waste Category:	Other organic solids

IMC BRANCH #17 (Continued) **S113467751**

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: S113467751
Year: 2016
GEPAID: CAL000408649
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST DEPT 8190
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: San Bernardino
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Alkaline solution without metals pH >= 12.5
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0005
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

envid: S113467751
Year: 2016
GEPAID: CAL000349690
Contact: RANDY MARSH
Telephone: 9099873334
Mailing Name: Not reported
Mailing Address: 15015 LANCASTER HWY
Mailing City,St,Zip: CHARLOTTE, NC 282772010
Gen County: San Bernardino
TSD EPA ID: NED981723513
TSD County: 99
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.05
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0016221
Owner: Interamerican Motor, LLC.
Permit Number: PT0035034
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2019

IMC BRANCH #17 (Continued) **S113467751**

Region: SAN BERNARDINO
Facility ID: FA0016221
Owner: Interamerican Motor, LLC.
Permit Number: PT0035033
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2019

L47 **AVERY INTL VENTURE CTR** **RCRA-SQG** **1000372364**
ENE **8989 NINTH ST** **CAT080014004**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.168 mi.
887 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
1134 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: AVERY INTL VENTURE CTR
Facility address: 8989 NINTH ST
RANCHO CUCAMONGA, CA 91730
EPA ID: CAT080014004
Mailing address: 8989 NINTH STREET
RANCHO CUCAMONGA, CA 91730
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AVERY INTERNATIONAL
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported

AVERY INTL VENTURE CTR (Continued) **1000372364**

Owner/operator extension: Not reported
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: 12/10/1980
Site name: AVERY INTL VENTURE CTR
Classification: Large Quantity Generator

Violation Status: No violations found

M48
South
1/8-1/4
0.182 mi.
959 ft.

ARMANDO RODRIGUEZ DBA A RODRIGUEZ TRANSP **RCRA NonGen / NLR** **1009398340**
1758 E OLIVE ST **PADS** **CAR000173518**
ONTARIO, CA 91764

Site 1 of 2 in cluster M

Relative:
Lower

Actual:
1112 ft.

RCRA NonGen / NLR:
Date form received by agency: 06/16/2006
Facility name: ARMANDO RODRIGUEZ DBA A RODRIGUEZ TRANSP
Facility address: 1758 E OLIVE ST
ONTARIO, CA 91764
EPA ID: CAR000173518
Contact: ARMANDO RODRIGUEZ
Contact address: 1758 E OLIVE ST
ONTARIO, CA 91764
Contact country: US
Contact telephone: 909-985-3653
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ARMANDO RODRIGUEZ DBA A RODRIGUEZ TRANSP
Owner/operator address: 1758 E OLIVE ST
ONTARIO, CA 91764
Owner/operator country: US

ARMANDO RODRIGUEZ DBA A RODRIGUEZ TRANSP (Continued) **1009398340**

Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/19/2005
Owner/Op end date:	Not reported

Owner/operator name:	ARMANDO RODRIGUEZ DBA A RODRIGUEZ TRANSP
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/19/2005
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:	Yes
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:	05/02/2006
Site name:	ARMANDO RODRIGUEZ
Classification:	Not a generator, verified
Violation Status:	No violations found

PADS:

EPAID:	CAR000173518
Facility name:	A. RODRIGUEZ TRANSPORTATION
Facility Address:	1758 EAST OLIVE STREET
	ONTARIO, CA 91764
Facility country:	US
Generator:	No
Storer:	No
Transporter:	Yes
Disposer:	No
Research facility:	No

ARMANDO RODRIGUEZ DBA A RODRIGUEZ TRANSP (Continued) **1009398340**

Smelter: No
Facility owner name: ARMANDO RODRIGUEZ
Contact title: Not reported
Contact name: ARMANDO RODRIGUEZ
Contact tel: 909-985-3653
Contact extension: Not reported
Contact Email: Not reported
Mailing address: 1758 EAST OLIVE STREET
ONTARIO, CA 91764
Mailing country: US
Cert. date: 09/25/2006

M49
South
1/8-1/4
0.182 mi.
959 ft.

A. RODRIGUEZ TRANSPORTATION **HWT** **S118559028**
1758 E. OLIVE ST. **N/A**
ONTARIO, CA 91764

Site 2 of 2 in cluster M

Relative:
Lower

Actual:
1112 ft.

HWT:
Reg Num: 5400
Expiration Date: 12/31/2018

L50
ENE
1/8-1/4
0.197 mi.
1040 ft.

TRANSCENDIA, INC. **San Bern. Co. Permit** **S120765505**
9000 9TH ST STE 140 **N/A**
RANCHO CUCAMONGA, CA 91730

Site 2 of 2 in cluster L

Relative:
Lower

Actual:
1135 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0017350
Owner: TRANSCENDIA TOPCO HOLDING, INC.
Permit Number: PT0037035
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 02/28/2019

N51
NE
1/8-1/4
0.216 mi.
1139 ft.

SEARING INDUSTRIES **RCRA-SQG** **1004676284**
8901 ARROW RTE **FINDS** **CAR000083261**
RANCHO CUCAMONGA, CA 91730 **ECHO**

Site 1 of 2 in cluster N

Relative:
Higher

Actual:
1156 ft.

RCRA-SQG:
Date form received by agency: 09/28/2000
Facility name: SEARING INDUSTRIES
Facility address: 8901 ARROW RTE
RANCHO CUCAMONGA, CA 91730
EPA ID: CAR000083261
Contact: JERRY SEARING
Contact address: 8901 ARROW RTE
RANCHO CUCAMONGA, CA 91730
Contact country: US
Contact telephone: 909-948-3030
Contact email: Not reported

SEARING INDUSTRIES (Continued) **1004676284**

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: SEARING INDUSTRIES
Owner/operator address: 8901 ARROW
RANCHO CUCAMONGA, CA 91730
Owner/operator country: Not reported
Owner/operator telephone: 909-948-3030
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
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

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110012269589

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.

OSHA ESTABLISHMENT

RCRAInfo is a national information system that supports the Resource

SEARING INDUSTRIES (Continued) **1004676284**

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.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004676284
Registry ID:	110012269589
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012269589

N52 **SEARING IND INC** **AST** **S103675221**
NE **8901 ARROW RTE** **EMI** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730** **NPDES**
0.216 mi. **San Bern. Co. Permit**
1139 ft. **Site 2 of 2 in cluster N** **CIWQS**

Relative: Higher

Actual: 1156 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	LEE SEARING
Total Gallons:	Not reported
CERSID:	10044589
Facility ID:	FA0006090
Business Name:	SEARING INDUSTRIES, INC.
Phone:	(909) 948-3030
Fax:	(909) 466-0534
Mailing Address:	PO BOX 3059
Mailing Address City:	RANCHO CUCAMONGA
Mailing Address State:	CA
Mailing Address Zip Code:	91729
Operator Name:	RICHARD SEARING
Operator Phone:	909 948 3030
Owner Phone:	(909) 948-3030 129
Owner Mail Address:	PO Box 3059
Owner State:	CA
Owner Zip Code:	91729
Owner Country:	United States
Property Owner Name:	LEE SEARING
Property Owner Phone:	909 948 3030
Property Owner Mailing Address:	8901 ARROW RTE
Property Owner City:	RANCHO CUCAMONGA
Property Owner Stat :	CA

SEARING IND INC (Continued) **S103675221**

Property Owner Zip Code: 91730
Property Owner Country: United States
EPAID: car000083261

EMI:

Year: 2002
County Code: 36
Air Basin: SC
Facility ID: 127436
Air District Name: SC
SIC Code: 3317
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: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2003
County Code: 36
Air Basin: SC
Facility ID: 127436
Air District Name: SC
SIC Code: 3317
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: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2004
County Code: 36
Air Basin: SC
Facility ID: 127436
Air District Name: SC
SIC Code: 3317
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: 0.000664
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.0014
NOX - Oxides of Nitrogen Tons/Yr: 0.0052
SOX - Oxides of Sulphur Tons/Yr: 0.0000332
Particulate Matter Tons/Yr: 0.4023
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.33

SEARING IND INC (Continued) **S103675221**

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I014189
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	06/18/1998
Operator Name:	Searing Industries Inc
Operator Address:	PO Box 3059
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91729

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213443
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I014189
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/18/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Searing Industries Inc
Discharge Address:	PO Box 3059
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91729
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported

SEARING IND INC (Continued) **S103675221**

Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213443
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I014189

SEARING IND INC (Continued) **S103675221**

Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	06/18/1998
Status:	Active
Status Date:	06/18/1998
Place Size:	165000
Place Size Unit:	SqFt
Contact:	Christian Hummel
Contact Title:	Purchasing Manager
Contact Phone:	909-948-3030
Contact Phone Ext:	Not reported
Contact Email:	christian@searingindustries.com
Operator Name:	Searing Industries Inc
Operator Address:	PO Box 3059
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91729
Operator Contact:	Richard Searing
Operator Contact Title:	Not reported
Operator Contact Phone:	909-948-3030
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	richard@searingindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-948-3030
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported

SEARING IND INC (Continued) **S103675221**

Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Christian Hummel
Certifier Title:	Purchasing Manager
Certification Date:	24-JUN-15
Primary Sic:	3317-Steel Pipe and Tubes
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	213443
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I014189
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/18/1998
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 3059
Discharge Name:	Searing Industries Inc
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91729
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213443
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I014189
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/18/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Searing Industries Inc
Discharge Address:	PO Box 3059
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91729

SEARING IND INC (Continued) **S103675221**

Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

SEARING IND INC (Continued) **S103675221**

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213443
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I014189
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	06/18/1998
Status:	Active
Status Date:	06/18/1998
Place Size:	165000
Place Size Unit:	SqFt
Contact:	Christian Hummel
Contact Title:	Purchasing Manager
Contact Phone:	909-948-3030
Contact Phone Ext:	Not reported
Contact Email:	christian@searingindustries.com
Operator Name:	Searing Industries Inc
Operator Address:	PO Box 3059
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91729
Operator Contact:	Richard Searing
Operator Contact Title:	Not reported
Operator Contact Phone:	909-948-3030
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	richard@searingindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-948-3030
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported

SEARING IND INC (Continued) **S103675221**

Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Christian Hummel
Certifier Title:	Purchasing Manager
Certification Date:	24-JUN-15
Primary Sic:	3317-Steel Pipe and Tubes
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0006090
Owner:	LEE SEARING
Permit Number:	PT0021101
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0006090
Owner:	LEE SEARING
Permit Number:	PT0007540
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0006090
Owner:	LEE SEARING
Permit Number:	PT0007541
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0006090
Owner:	LEE SEARING
Permit Number:	PT0021100
Permit Category:	EPCRA FACILITY
Facility Status:	INACTIVE
Expiration Date:	05/31/2014

CIWQS:

Agency:	Searing Industries Inc
Agency Address:	PO Box 3059, Rancho Cucamonga, CA 91729

SEARING IND INC (Continued) **S103675221**

Place/Project Type:	Industrial - Steel Pipe and Tubes
SIC/NAICS:	3317
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I014189
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/18/1998
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09941
Longitude:	-117.61093

---

53 ENE 1/8-1/4 0.227 mi. 1201 ft. **EARTH PROTECTION SERVICES INC** **RCRA NonGen / NLR** **1001122805**
8747 FLOWER ST **CAR000016436**
RANCHO CUCAMUNGA, CA 91730

Relative: Lower

Actual: 1124 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/16/2001
Facility name:	EARTH PROTECTION SERVICES INC
Facility address:	8747 FLOWER ST RANCHO CUCAMUNGA, CA 91730
EPA ID:	CAR000016436
Contact:	VIRGINIA CHILCOTT
Contact address:	P O BOX 23820 PHOENIX, AZ 85063-3820
Contact country:	US
Contact telephone:	602-353-9282
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JOHN M CHILCOTT
Owner/operator address:	10 S 48TH AVE STE NO 4 PHOENIX, AZ 85063
Owner/operator country:	Not reported
Owner/operator telephone:	602-353-9282
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

EARTH PROTECTION SERVICES INC (Continued) **1001122805**

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

---

54 **POSADAS TRUCKING** **HWT** **S112186453**
NW **8607 COMET STREET** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.235 mi.
1242 ft.

Relative:
Higher

Actual:
1197 ft.

HWT:

Reg Num:	5815
Expiration Date:	08/31/2019

O55 **M.S. FOOD STORE** **CHMIRS** **S109040934**
NNE **8514 VINEYARD AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.237 mi.
1254 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
1166 ft.

CHMIRS:

OES Incident Number:	6-3187
OES notification:	05/26/2006
OES Date:	Not reported
OES Time:	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

M.S. FOOD STORE (Continued) **S109040934**

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:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Attendant
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Veeder Root
Incident Date:	5/26/2006 12:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Service Station
E Date:	Not reported
Substance:	Gasoline
Gallons:	6
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#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:	Per caller, a leaky hose caused the release.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0004780
Owner:	SHARIF AHMAD
Permit Number:	PT0004526
Permit Category:	HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status:	ACTIVE
Expiration Date:	12/31/2018

Region:	SAN BERNARDINO
Facility ID:	FA0004780

M.S. FOOD STORE (Continued) **S109040934**

Owner: SHARIF AHMAD
Permit Number: PT0030465
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: ACTIVE
Expiration Date: 12/31/2018

Region: SAN BERNARDINO
Facility ID: FA0004780
Owner: SHARIF AHMAD
Permit Number: PT0010811
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2018

Region: SAN BERNARDINO
Facility ID: FA0004780
Owner: SHARIF AHMAD
Permit Number: PT0010812
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2018

Region: SAN BERNARDINO
Facility ID: FA0004780
Owner: SHARIF AHMAD
Permit Number: PT0010813
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2018

Region: SAN BERNARDINO
Facility ID: FA0004780
Owner: SHARIF AHMAD
Permit Number: PT0010814
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2018

O56 **M.S. FOOD STORE** **UST** **U003940730**
NNE **8514 VINEYARD AVE** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.237 mi.
1254 ft. **Site 2 of 2 in cluster O**

Relative:
Higher

Actual:
1166 ft.

UST:
Facility ID: 89019572
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.1003743
Longitude: -117.6101071

Facility ID: FA0004780
Permitting Agency: San Bernardino County Fire Department
Latitude: 34.098978
Longitude: -117.611266

57 South 1/4-1/2 0.334 mi. 1761 ft. | **6TH STREET CONTINUATION HIGH SCHOOL**
VINEYARD AVE./7TH STREET
ONTARIO, CA 91764 | **ENVIROSTOR SCH** | **S118756808 N/A**

Relative: Lower

Actual: 1100 ft.

ENVIROSTOR:

Facility ID:	36010055
Status:	No Further Action
Status Date:	07/13/2016
Site Code:	404524
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	13
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.08785
Longitude:	-117.6147
APN:	108-391-02
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic DDD DDE DDT
Confirmed COC:	30001-NO 30006-NO 30007-NO 30008-NO 31000-NO
Potential Description:	SOIL
Alias Name:	6TH STREET CONTINUATION HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	Alternative Education Center
Alias Type:	Alternate Name
Alias Name:	CHAFFEY JOINT UNION HIGH SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	CHAFFEY JUHSD-6TH STREET HS EXPANSION
Alias Type:	Alternate Name
Alias Name:	108-391-02
Alias Type:	APN
Alias Name:	404524
Alias Type:	Project Code (Site Code)
Alias Name:	36010055
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	03/02/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	03/23/2004
Comments:	Not reported

6TH STREET CONTINUATION HIGH SCHOOL (Continued) **S118756808**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	11/15/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/16/2004
Comments:	DTSC approved the PEA with "No Further Action" determination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	04/23/2004
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	36010055
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	13
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404524
Assembly:	52
Senate:	20
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/13/2016
Restricted Use:	NO
Funding:	School District
Latitude:	34.08785
Longitude:	-117.6147
APN:	108-391-02
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, Arsenic, DDD, DDE, DDT
Confirmed COC:	30001-NO, 30006-NO, 30007-NO, 30008-NO, 31000-NO
Potential Description:	SOIL

6TH STREET CONTINUATION HIGH SCHOOL (Continued) **S118756808**

Alias Name:	6TH STREET CONTINUATION HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	Alternative Education Center
Alias Type:	Alternate Name
Alias Name:	CHAFFEY JOINT UNION HIGH SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	CHAFFEY JUHSD-6TH STREET HS EXPANSION
Alias Type:	Alternate Name
Alias Name:	108-391-02
Alias Type:	APN
Alias Name:	404524
Alias Type:	Project Code (Site Code)
Alias Name:	36010055
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	03/02/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	03/23/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	11/15/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/16/2004
Comments:	DTSC approved the PEA with "No Further Action" determination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	04/23/2004
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

58 SSE 1/4-1/2 0.377 mi. 1988 ft. | **CHAFFEY STEM HIGH SCHOOL**
NW OF INTERSECTION OF E. 6TH ST. AND N. VINEYARD AVE.
ONTARIO, CA 91764 | **ENVIROSTOR SCH** | **S118757335 N/A**

Relative: Lower

Actual: 1086 ft.

ENVIROSTOR:

Facility ID:	60002388
Status:	No Further Action
Status Date:	10/14/2016
Site Code:	404931
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	15
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	, 52
Senate:	, 20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.08723
Longitude:	-117.6118
APN:	108-39-103-0000, 108-39-106-0000
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Under Investigation
Confirmed COC:	31001-NO
Potential Description:	UE
Alias Name:	108-39-103-0000
Alias Type:	APN
Alias Name:	108-39-106-0000
Alias Type:	APN
Alias Name:	404931
Alias Type:	Project Code (Site Code)
Alias Name:	60002388
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement Application
Completed Date:	06/13/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Tech Memo
Completed Date:	07/28/2016
Comments:	DTSC approved the PEA tech memo
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/14/2016
Comments:	Not reported

CHAFFEY STEM HIGH SCHOOL (Continued) **S118757335**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/29/2016
Comments:	DTSC conducted field oversight for soil sampling activities

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pre-HARP Form
Completed Date:	07/28/2016
Comments:	DTSC prepared a preHARP

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/14/2016
Comments:	DTSC prepared an annual oversight cost estimate for 2016-2017

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	06/27/2016
Comments:	Fully executed EOA sent to District via regular mail on 06/28/16.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/24/2017
Comments:	Closeout Form 1554 submitted on 10/20/16 and processed by CRBU on 5/24/17; closeout complete.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60002388
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	15
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:	404931
Assembly:	, 52

CHAFFEY STEM HIGH SCHOOL (Continued) **S118757335**

Senate:	, 20
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	10/14/2016
Restricted Use:	NO
Funding:	School District
Latitude:	34.08723
Longitude:	-117.6118
APN:	108-39-103-0000, 108-39-106-0000
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Under Investigation
Confirmed COC:	31001-NO
Potential Description:	UE
Alias Name:	108-39-103-0000
Alias Type:	APN
Alias Name:	108-39-106-0000
Alias Type:	APN
Alias Name:	404931
Alias Type:	Project Code (Site Code)
Alias Name:	60002388
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement Application
Completed Date:	06/13/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Tech Memo
Completed Date:	07/28/2016
Comments:	DTSC approved the PEA tech memo
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/14/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/29/2016
Comments:	DTSC conducted field oversight for soil sampling activities
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pre-HARP Form
Completed Date:	07/28/2016
Comments:	DTSC prepared a preHARP
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/14/2016
Comments:	DTSC prepared an annual oversight cost estimate for 2016-2017

CHAFFEY STEM HIGH SCHOOL (Continued) **S118757335**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	06/27/2016
Comments:	Fully executed EOA sent to District via regular mail on 06/28/16.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/24/2017
Comments:	Closeout Form 1554 submitted on 10/20/16 and processed by CRBU on 5/24/17; closeout complete.

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

P59 **AVERY INTL** **RCRA-SQG** **1000372795**
ENE **9292 NINTH ST** **LUST** **CAD050745363**
1/4-1/2 **RANCHO CUCAMONGA, CA 91730** **SWEEPS UST**
0.442 mi. **HIST UST**
2333 ft. **Site 1 of 2 in cluster P** **CA FID UST**
HIST CORTESE
Relative: **San Bern. Co. Permit**
Lower
Actual:
1123 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	AVERY INTL
Facility address:	9292 NINTH ST RANCHO CUCAMONGA, CA 91730
EPA ID:	CAD050745363
Mailing address:	9292 NINTH STREET RANCHO CUCAMONGA, CA 91730
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Private
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:	AVERY INTERNATIONAL
Owner/operator address:	9292 NINTH STREET

AVERY INTL (Continued) **1000372795**

	CITY NOT REPORTED, CA 99999
Owner/operator country:	Not reported
Owner/operator telephone:	714-987-4631
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	AVERY INTERNATIONAL
Owner/operator address:	9292 NINTH STREET
	RANCHO CUCAMONGA, CA 91730
Owner/operator country:	Not reported
Owner/operator telephone:	714-987-4631
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
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:	09/01/1996
Site name:	AVERY INTL
Classification:	Small Quantity Generator

Date form received by agency:	03/27/1996
Site name:	AVERY DENNISON
Classification:	Large Quantity Generator

Date form received by agency:	03/29/1994
Site name:	AVERY DENNISION-FASSON MPD
Classification:	Large Quantity Generator

Date form received by agency:	02/21/1992
Site name:	AVERY DENNISON-FASSON MPD

AVERY INTL (Continued) **1000372795**

Classification: Large Quantity Generator

Date form received by agency: 04/06/1990
Site name: AVERY INTERNATIONAL
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: AVERY INTL
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/13/1991
Date achieved compliance: 06/30/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 02/13/1991
Date achieved compliance: 06/30/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/30/1994
Evaluation lead agency: State

Evaluation date: 02/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/30/1994
Evaluation lead agency: State

LUST:
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100288
Global Id: T0607100288

AVERY INTL (Continued) **1000372795**

Latitude:	34.096635
Longitude:	-117.60386
Status:	Completed - Case Closed
Status Date:	06/03/1997
Case Worker:	CR2
RB Case Number:	083602318T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	93040
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Stoddard solvent / Mineral Spriits / Distillates
Site History:	Not reported

LUST:

Global Id:	T0607100288
Contact Type:	Local Agency Caseworker
Contact Name:	CATHERINE RICHARDS
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	crichards@sbcfire.org
Phone Number:	9093868419

Global Id:	T0607100288
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

LUST:

Global Id:	T0607100288
Action Type:	Other
Date:	08/03/1993
Action:	Leak Reported

Global Id:	T0607100288
Action Type:	REMEDIATION
Date:	04/29/1991
Action:	Excavation

Global Id:	T0607100288
Action Type:	REMEDIATION
Date:	05/02/1996
Action:	Excavation

Global Id:	T0607100288
Action Type:	Other
Date:	06/15/1993
Action:	Leak Discovery

Global Id:	T0607100288
Action Type:	ENFORCEMENT
Date:	06/03/1997
Action:	Closure/No Further Action Letter

AVERY INTL (Continued) **1000372795**

Global Id:	T0607100288
Action Type:	Other
Date:	06/15/1993
Action:	Leak Stopped

LUST:

Global Id:	T0607100288
Status:	Completed - Case Closed
Status Date:	06/03/1997
Global Id:	T0607100288
Status:	Open - Case Begin Date
Status Date:	06/15/1993
Global Id:	T0607100288
Status:	Open - Site Assessment
Status Date:	06/15/1993

LUST REG 8:

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602318T
Local Case Num:	93040
Case Type:	Soil only
Substance:	Mineral Spirits
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	ARCHIBALD
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100288
How Stopped Date:	6/15/1993
Enter Date:	10/5/1993
Date Confirmation of Leak Began:	6/15/1993
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/15/1993
Enforcement Date:	Not reported
Close Date:	6/3/1997
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:	10/5/1993
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported

AVERY INTL (Continued) **1000372795**

Oversite Program:	LUST
Latitude:	34.1326372
Longitude:	-117.5983855
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	NOM
Staff Initials:	CR2
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

SWEEPS UST:

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000001
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	22

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000002
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported

AVERY INTL (Continued) **1000372795**

Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000003
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000004
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000005
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported

AVERY INTL (Continued) **1000372795**

Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000006
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000007
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000008
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000009
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL

AVERY INTL (Continued) **1000372795**

STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000010
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000011
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	RECLAIMED SO
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000014
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230

AVERY INTL (Continued) **1000372795**

Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000015
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000016
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000017
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	TOLUENE BASE
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported

AVERY INTL (Continued) **1000372795**

SWRCB Tank Id:	36-000-000230-000020
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	METHANOL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000021
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	PRODUCT
Content:	MINERAL OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000022
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	LACTOL SPIRI
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	230
Number:	Not reported
Board Of Equalization:	44-020703
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000230-000023
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT

AVERY INTL (Continued) **1000372795**

Content: LACTOL SPIRI
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 230
Number: Not reported
Board Of Equalization: 44-020703
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-000230-000027
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: RECOVERED SO
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 230
Number: Not reported
Board Of Equalization: 44-020703
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-000230-000028
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: RECOVERED SO
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 230
Number: Not reported
Board Of Equalization: 44-020703
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-000230-000029
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: RECOVERED SO
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9

AVERY INTL (Continued) **1000372795**

Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 12
SWRCB Tank Id: 36-000-000230-000012
Tank Status: A
Capacity: 6000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 13

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 13
SWRCB Tank Id: 36-000-000230-000013
Tank Status: A
Capacity: 6000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 18
SWRCB Tank Id: 36-000-000230-000018
Tank Status: A
Capacity: 2000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 19
SWRCB Tank Id: 36-000-000230-000019

AVERY INTL (Continued) **1000372795**

Tank Status: A
Capacity: 2000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 24
SWRCB Tank Id: 36-000-000230-000024
Tank Status: A
Capacity: 20000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 25
SWRCB Tank Id: 36-000-000230-000025
Tank Status: A
Capacity: 10000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 26
SWRCB Tank Id: 36-000-000230-000026
Tank Status: A
Capacity: 10000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported

AVERY INTL (Continued) **1000372795**

Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 30
SWRCB Tank Id: 36-000-000230-000030
Tank Status: A
Capacity: 10000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 50
SWRCB Tank Id: 36-000-000230-000031
Tank Status: A
Capacity: 15000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 51
SWRCB Tank Id: 36-000-000230-000032
Tank Status: A
Capacity: 15000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703

AVERY INTL (Continued) **1000372795**

Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 52
SWRCB Tank Id: 36-000-000230-000033
Tank Status: A
Capacity: 15000
Active Date: 09-09-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 53
SWRCB Tank Id: 36-000-000230-000034
Tank Status: A
Capacity: 20000
Active Date: 09-09-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 230
Number: 9
Board Of Equalization: 44-020703
Referral Date: 09-10-91
Action Date: 09-10-91
Created Date: 02-29-88
Owner Tank Id: 54
SWRCB Tank Id: 36-000-000230-000035
Tank Status: A
Capacity: 20000
Active Date: 09-09-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000019536
Facility Type: Other
Other Type: MANUFACTURER
Contact Name: R.RUUD- TECHNICAL MANAGER
Telephone: 7149874631
Owner Name: AVERY INTERNATIONAL

AVERY INTL (Continued) **1000372795**

Owner Address:	150 NORTH ORANGE GROVE BLVD.
Owner City,St,Zip:	PASADENA, CA 91103
Total Tanks:	0035
Tank Num:	001
Container Num:	1
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	5
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	006
Container Num:	6
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

AVERY INTL (Continued) **1000372795**

Tank Num:	007
Container Num:	7
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	008
Container Num:	8
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	009
Container Num:	9
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	010
Container Num:	10
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	011
Container Num:	11
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	012
Container Num:	12
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	013
Container Num:	13
Year Installed:	1966

AVERY INTL (Continued) **1000372795**

Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	014
Container Num:	14
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, Pressure Test

Tank Num:	015
Container Num:	15
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	016
Container Num:	16
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/16
Leak Detection:	Stock Inventor

Tank Num:	017
Container Num:	17
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	018
Container Num:	18
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	019
Container Num:	19
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported

AVERY INTL (Continued) **1000372795**

Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	020
Container Num:	20
Year Installed:	1966
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	021
Container Num:	21
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	022
Container Num:	22
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	023
Container Num:	23
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	024
Container Num:	24
Year Installed:	1969
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	025
Container Num:	25
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/16
Leak Detection:	Stock Inventor

AVERY INTL (Continued) **1000372795**

Tank Num:	026
Container Num:	26
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	027
Container Num:	27
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	028
Container Num:	28
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	029
Container Num:	29
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	030
Container Num:	30
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	031
Container Num:	50
Year Installed:	1973
Tank Capacity:	00015000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	032
Container Num:	51
Year Installed:	1973

AVERY INTL (Continued) **1000372795**

Tank Capacity:	00015000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	033
Container Num:	52
Year Installed:	1973
Tank Capacity:	00015000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	034
Container Num:	53
Year Installed:	Not reported
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Tank Num:	035
Container Num:	54
Year Installed:	Not reported
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

CA FID UST:

Facility ID:	36008756
Regulated By:	UTNKA
Regulated ID:	00019536
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	9292 009TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	RANCHO CUCAMONGA 91730
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST CORTESE:

Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA

AVERY INTL (Continued) **1000372795**

Reg Id: 083602318T

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0001250
Owner: AVERY DENNISON
Permit Number: PT0002717
Permit Category: HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 05/31/2006

Region: SAN BERNARDINO
Facility ID: FA0001250
Owner: AVERY DENNISON
Permit Number: PT0002718
Permit Category: HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2006

P60 **AVERY INTERNATIONAL-SPECIALTY** **ENVIROSTOR** **S110493657**
ENE **9292 NINTH STREET** **HIST UST** **N/A**
1/4-1/2 **RANCHO CUCAMONGA, CA 91730**
0.442 mi.
2333 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
1123 ft.

ENVIROSTOR:
Facility ID: 71002437
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: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.09663
Longitude: -117.6038
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD050745363
Alias Type: EPA Identification Number
Alias Name: 71002437
Alias Type: Envirostor ID Number

AVERY INTERNATIONAL-SPECIALTY (Continued) **S110493657**

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

HIST UST:

File Number:	0002999E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002999E.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

61
WNW
1/4-1/2
0.484 mi.
2557 ft.

JIM'S TEXACO **LUST** **S103674787**
8715 GROVE **HIST CORTESE** **N/A**
RANCHO CUCAMONGA, CA 91730

Relative:
Higher

Actual:
1193 ft.

LUST:

Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100365
Global Id:	T0607100365
Latitude:	34.095534
Longitude:	-117.628159
Status:	Completed - Case Closed
Status Date:	05/08/1996

JIM'S TEXACO (Continued) **S103674787**

Case Worker:	JC
RB Case Number:	083602602T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	94075
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

LUST:

Global Id:	T0607100365
Contact Type:	Local Agency Caseworker
Contact Name:	JACKSON CRUTSINGER
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	jcrutsinger@sbcfire.org
Phone Number:	Not reported

Global Id:	T0607100365
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375

LUST:

Global Id:	T0607100365
Action Type:	Other
Date:	12/02/1994
Action:	Leak Reported

Global Id:	T0607100365
Action Type:	Other
Date:	10/20/1994
Action:	Leak Discovery

Global Id:	T0607100365
Action Type:	ENFORCEMENT
Date:	05/08/1996
Action:	Closure/No Further Action Letter

Global Id:	T0607100365
Action Type:	Other
Date:	10/20/1994
Action:	Leak Stopped

LUST:

Global Id:	T0607100365
Status:	Completed - Case Closed
Status Date:	05/08/1996

Global Id:	T0607100365
Status:	Open - Case Begin Date
Status Date:	10/20/1994

JIM'S TEXACO (Continued) **S103674787**

Global Id:	T0607100365
Status:	Open - Remediation
Status Date:	01/13/1995
Global Id:	T0607100365
Status:	Open - Site Assessment
Status Date:	10/20/1994
Global Id:	T0607100365
Status:	Open - Site Assessment
Status Date:	12/13/1994

LUST REG 8:

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602602T
Local Case Num:	94075
Case Type:	Soil only
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	SANTA ANA
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	UNK
Global ID:	T0607100365
How Stopped Date:	10/20/1994
Enter Date:	2/3/1995
Date Confirmation of Leak Began:	12/13/1994
Date Preliminary Assessment Began:	10/20/1994
Discover Date:	10/20/1994
Enforcement Date:	Not reported
Close Date:	5/8/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	12/13/1994
Date Remediation Plan Submitted:	1/13/1995
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	2/3/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0950592
Longitude:	-117.6286331
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	Not reported

JIM'S TEXACO (Continued) **S103674787**

MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602602T

62
WSW
1/2-1
0.566 mi.
2990 ft.

Relative:
Higher

Actual:
1144 ft.

UPLAND THRALL HALL USAR **ENVIROSTOR** **S103393802**
1284 E. SEVENTH STREET **N/A**
UPLAND, CA 91764

ENVIROSTOR:

Facility ID:	36970010
Status:	* De-listed
Status Date:	05/07/2001
Site Code:	400688
Site Type:	Military Evaluation
Site Type Detailed:	Open Base
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	41
Senate:	25
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.08791
Longitude:	-117.6338
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	USARC UPLAND
Alias Type:	Alternate Name
Alias Name:	400688
Alias Type:	Project Code (Site Code)

UPLAND THRALL HALL USAR (Continued) **S103393802**

Alias Name: 36970010
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/21/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Delisting Document
Completed Date: 05/07/2001
Comments: DLIST - SITE 1 (TRANSFORMER): The purpose of the decision document is to present the selected action for the Site 1 - transformer in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). It has been determined that the selected remedy of No Further Action (NFA) is protective of human health and the environment. The decision document describes the selected action based on the results of the Preliminary Assessment (PA) and other subsequent investigations conducted under the Installation Restoration Program (IRP). DTSC concurred with the decision document's NFA recommendation in a letter dated April 2, 2001. DTSC's agreement to remove this site from the IRP list does not represent certification or validation that the entire facility does not have any hazardous substance releases. Should DTSC become aware of potential hazardous substance releases, it will initiate appropriate action to correct the problem.

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

63
ENE
1/2-1
0.660 mi.
3487 ft.

INTERMETRO INDUSTRIES
9393 ARROW HIGHWAY
RANCHO CUCAMONGA, CA 91730

ENVIROSTOR **S110493943**
San Bern. Co. Permit **N/A**

Relative:
Higher

Actual:
1143 ft.

ENVIROSTOR:
Facility ID: 71002573
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

INTERMETRO INDUSTRIES (Continued) **S110493943**

Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 41
Senate: 25
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.09940
Longitude: -117.6291
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD076053701
Alias Type: EPA Identification Number
Alias Name: 110000477573
Alias Type: EPA (FRS #)
Alias Name: 71002573
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

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0003998
Owner: BESSEMER HOLDINGS, LP
Permit Number: PT0014569
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 09/30/2006

Region: SAN BERNARDINO
Facility ID: FA0003998
Owner: BESSEMER HOLDINGS, LP
Permit Number: PT0001582
Permit Category: HAZARDOUS WASTE GENERATOR - 51-100 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2006

Region: SAN BERNARDINO

INTERMETRO INDUSTRIES (Continued) **S110493943**

Facility ID: FA0003998
Owner: BESSEMER HOLDINGS, LP
Permit Number: PT0001580
Permit Category: CA ANNUAL FEE
Facility Status: INACTIVE
Expiration Date: 09/30/2006

Region: SAN BERNARDINO
Facility ID: FA0003998
Owner: BESSEMER HOLDINGS, LP
Permit Number: PT0001581
Permit Category: HAZMAT HANDLER 51-100 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 09/30/2006

64
SW
1/2-1
0.701 mi.
3702 ft.

NEW MIDDLE SCHOOL NO. 35
SIXTH STREET/AMADOR AVENUE
ONTARIO, CA 91764

ENVIROSTOR **S105754272**
SCH **N/A**

Relative:
Lower

Actual:
1117 ft.

ENVIROSTOR:
Facility ID: 36070009
Status: No Further Action
Status Date: 12/23/2002
Site Code: 404410
Site Type: School Investigation
Site Type Detailed: School
Acres: 13
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.08508
Longitude: -117.6279
APN: NONE SPECIFIED
Past Use: * AGRICULTURAL SERVICES
Potential COC: Barium and compounds Zinc Chlordane Endrin DDT Heptachlor epoxide Endosulfan DDE DDD Dieldrin
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: NEW MIDDLE SCHOOL NO. 35
Alias Type: Alternate Name
Alias Name: ONTARIO MONTCLAIR SD-PROPOSED NEW MS #35
Alias Type: Alternate Name
Alias Name: ONTARIO-MONTCLAIR SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 404410
Alias Type: Project Code (Site Code)
Alias Name: 36070009

NEW MIDDLE SCHOOL NO. 35 (Continued) **S105754272**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 11/06/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/23/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/06/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/23/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/06/2004
Comments: accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 03/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/24/2002
Comments: Focused Phase I Site Assessment

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

NEW MIDDLE SCHOOL NO. 35 (Continued) **S105754272**

Facility ID:	36070009
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	13
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404410
Assembly:	52
Senate:	20
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	12/23/2002
Restricted Use:	NO
Funding:	School District
Latitude:	34.08508
Longitude:	-117.6279
APN:	NONE SPECIFIED
Past Use:	* AGRICULTURAL SERVICES
Potential COC:	Barium and compounds, Barium and compounds, Zinc, Chlordane, Endrin, DDT, Heptachlor epoxide, Endosulfan, DDE, DDD, Dieldrin
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV
Alias Name:	NEW MIDDLE SCHOOL NO. 35
Alias Type:	Alternate Name
Alias Name:	ONTARIO MONTCLAIR SD-PROPOSED NEW MS #35
Alias Type:	Alternate Name
Alias Name:	ONTARIO-MONTCLAIR SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	404410
Alias Type:	Project Code (Site Code)
Alias Name:	36070009
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	11/06/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/23/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/06/2005
Comments:	Not reported

NEW MIDDLE SCHOOL NO. 35 (Continued) **S105754272**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/23/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	12/06/2004
Comments:	accepted

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	03/11/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	10/24/2002
Comments:	Focused Phase I Site Assessment

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

65
SE
1/2-1
0.793 mi.
4185 ft.

HELLMAN ELEMENTARY SCHOOL
6TH STREET/HELLMAN AVENUE
RANCHO CUCAMONGA, CA 91730

ENVIROSTOR **S105628850**
SCH **N/A**

Relative:
Lower

Actual:
1054 ft.

ENVIROSTOR:

Facility ID:	36010033
Status:	Inactive - Needs Evaluation
Status Date:	06/29/2000
Site Code:	404092
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	9.54
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	40
Senate:	23
Special Program:	Not reported
Restricted Use:	NO

HELLMAN ELEMENTARY SCHOOL (Continued) **S105628850**

Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.08470
Longitude: -117.6013
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CUCAMONGA ELEM SD-6TH & HELLMAN/CDE
Alias Type: Alternate Name
Alias Name: CUCAMONGA ELEMENTARY SD-HELLMAN ELEM/VCA
Alias Type: Alternate Name
Alias Name: CUCAMONGA SD
Alias Type: Alternate Name
Alias Name: HELLMAN ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 404035
Alias Type: Project Code (Site Code)
Alias Name: 404092
Alias Type: Project Code (Site Code)
Alias Name: 36010033
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/29/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 36010033
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 9.54
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP

HELLMAN ELEMENTARY SCHOOL (Continued) **S105628850**

Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404092
Assembly:	40
Senate:	23
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	06/29/2000
Restricted Use:	NO
Funding:	School District
Latitude:	34.08470
Longitude:	-117.6013
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CUCAMONGA ELEM SD-6TH & HELLMAN/CDE
Alias Type:	Alternate Name
Alias Name:	CUCAMONGA ELEMENTARY SD-HELLMAN ELEM/VCA
Alias Type:	Alternate Name
Alias Name:	CUCAMONGA SD
Alias Type:	Alternate Name
Alias Name:	HELLMAN ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	404035
Alias Type:	Project Code (Site Code)
Alias Name:	404092
Alias Type:	Project Code (Site Code)
Alias Name:	36010033
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/29/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/04/2000
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

66 NNE 1/2-1 0.910 mi. 4807 ft. | **FORMER TOWN CENTER CLEANERS**
9116 EAST FOOTHILL BOULEVARD, SUITE 102
RANCH CUCAMONGA, CA 91730 | **ENVIROSTOR VCP** | **S121475146 N/A**

Relative: Higher

Actual: 1219 ft.

ENVIROSTOR:

Facility ID:	60002569
Status:	Active
Status Date:	10/20/2017
Site Code:	401800
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.06
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Anantaramam Peddada
Supervisor:	Robert Senga
Division Branch:	Cleanup Cypress
Assembly:	, 40
Senate:	, 23
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.10765
Longitude:	-117.6063
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE
Potential Description:	SOIL, SV, UE
Alias Name:	401800
Alias Type:	Project Code (Site Code)
Alias Name:	60002569
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1

FORMER TOWN CENTER CLEANERS (Continued) **S121475146**

Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/16/2018
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2020
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

VCP:
Facility ID: 60002569

FORMER TOWN CENTER CLEANERS (Continued) **S121475146**

Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.06
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Anantaramam Peddada
Supervisor:	Robert Senga
Division Branch:	Cleanup Cypress
Site Code:	401800
Assembly:	, 40
Senate:	, 23
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	10/20/2017
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.10765 / -117.6063
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING
Potential COC:	30022
Confirmed COC:	30022
Potential Description:	SOIL, SV, UE
Alias Name:	401800
Alias Type:	Project Code (Site Code)
Alias Name:	60002569
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/21/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report

FORMER TOWN CENTER CLEANERS (Continued) **S121475146**

Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/16/2018
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2020
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

67 West 1/2-1 0.970 mi. 5123 ft. | **WESTERN MOLDINGS, INC.**
1111 EAST 8TH STREET
UPLAND, CA 91786 | **ENVIROSTOR** | **S101481928**
N/A

Relative: Higher

Actual: 1187 ft.

ENVIROSTOR:

Facility ID:	36340063
Status:	Active
Status Date:	09/17/2008
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	5.4
NPL:	NO
Regulatory Agencies:	SAN BERNARDINO COUNTY
Lead Agency:	SAN BERNARDINO COUNTY
Program Manager:	Eileen Mananian
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	41
Senate:	25
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.09277
Longitude:	-117.6366
APN:	104652116
Past Use:	MANUFACTURING - METAL
Potential COC:	* HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	WESTERN MOLDINGS, INC.
Alias Type:	Alternate Name
Alias Name:	104652116
Alias Type:	APN
Alias Name:	36340063
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/24/1995
Comments:	Site was identified from a letter from the RP regarding a non-emergency release at their old site. RP has not submit- ted the Non-emergency Hazardous Substance Release form, but a follow-up letter requesting the necessary information. Due to the evidence of a release of comtamination, a PEA will be required, and on 1-24-95, the RP was thus notified.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/16/2002
Comments:	Site Screening Completed

WESTERN MOLDINGS, INC. (Continued) **S101481928**

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: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RANCHO CUCAMONGA	S121618197	9TH STREET INDUSTRIAL	S SIDE OF 9TH ST BW LION ST &	91730	CIWQS
UPLAND	S106166895	UPLAND LAUNDRY & CLEANERS	271 E 9TH ST	91786	DRYCLEANERS, EMI

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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
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

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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/29/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 03/11/2019
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: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 03/11/2019
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: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
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: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
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: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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 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: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

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 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 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 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 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
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: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
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: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
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

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
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: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
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: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

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: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 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: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/20/2019
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: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: 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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
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: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
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: 12/03/2018
Next Scheduled EDR Contact: 03/18/2019
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: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
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: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

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: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/13/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 42

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
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: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/19/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
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: 10/09/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

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: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/31/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 46

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/16/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 8

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/02/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/21/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 22

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/20/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 35

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 12/07/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/24/2019
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 12/06/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/01/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 30

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 35

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 7

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/04/2018
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/07/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

VINEYARD AVENUE AND 9TH STREET
VINEYARD AVENUE AND 9TH STREET
RANCHO CUCAMONGA, CA 91730

TARGET PROPERTY COORDINATES

Latitude (North):	34.09333 - 34˚ 5' 35.99''
Longitude (West):	117.615461 - 117˚ 36' 55.66''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	443224.1
UTM Y (Meters):	3772480.5
Elevation:	1136 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5620426 GUASTI, CA
Version Date:	2012
Southwest Map:	5619074 ONTARIO, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

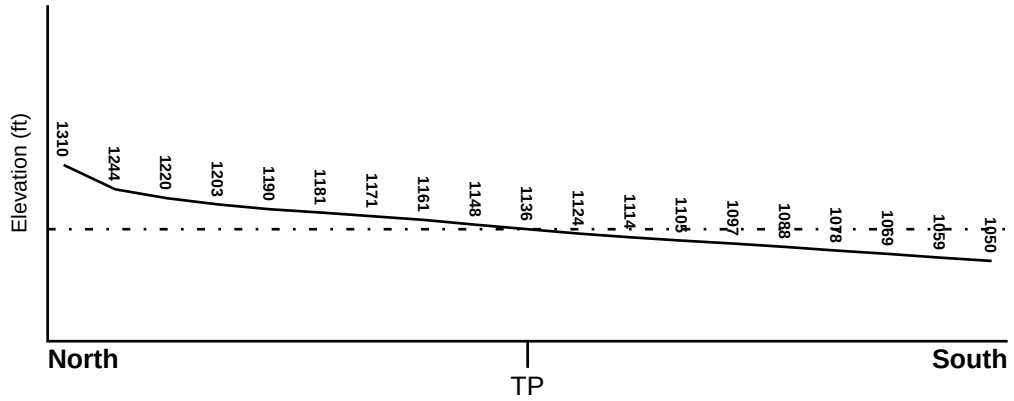
TOPOGRAPHIC INFORMATION

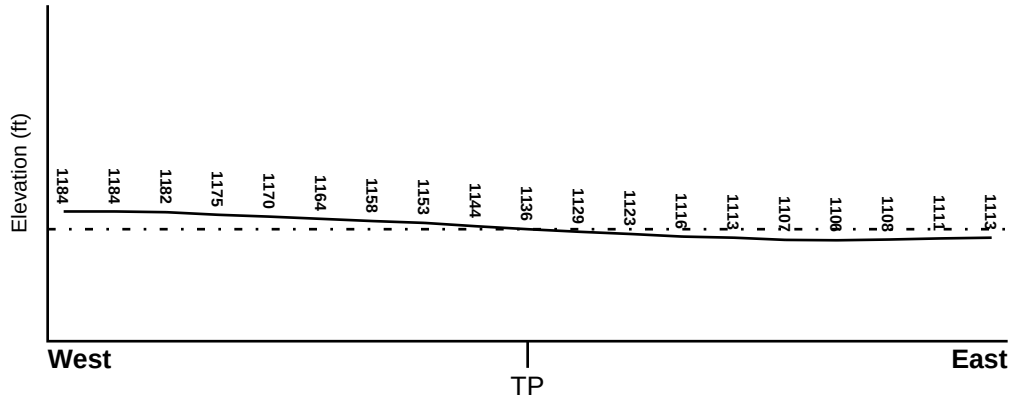
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1136 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C8628J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1750F	FEMA FIRM Flood data
06071C8607H	FEMA FIRM Flood data
06071C8630J	FEMA FIRM Flood data
06071C8609J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GUASTI	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
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

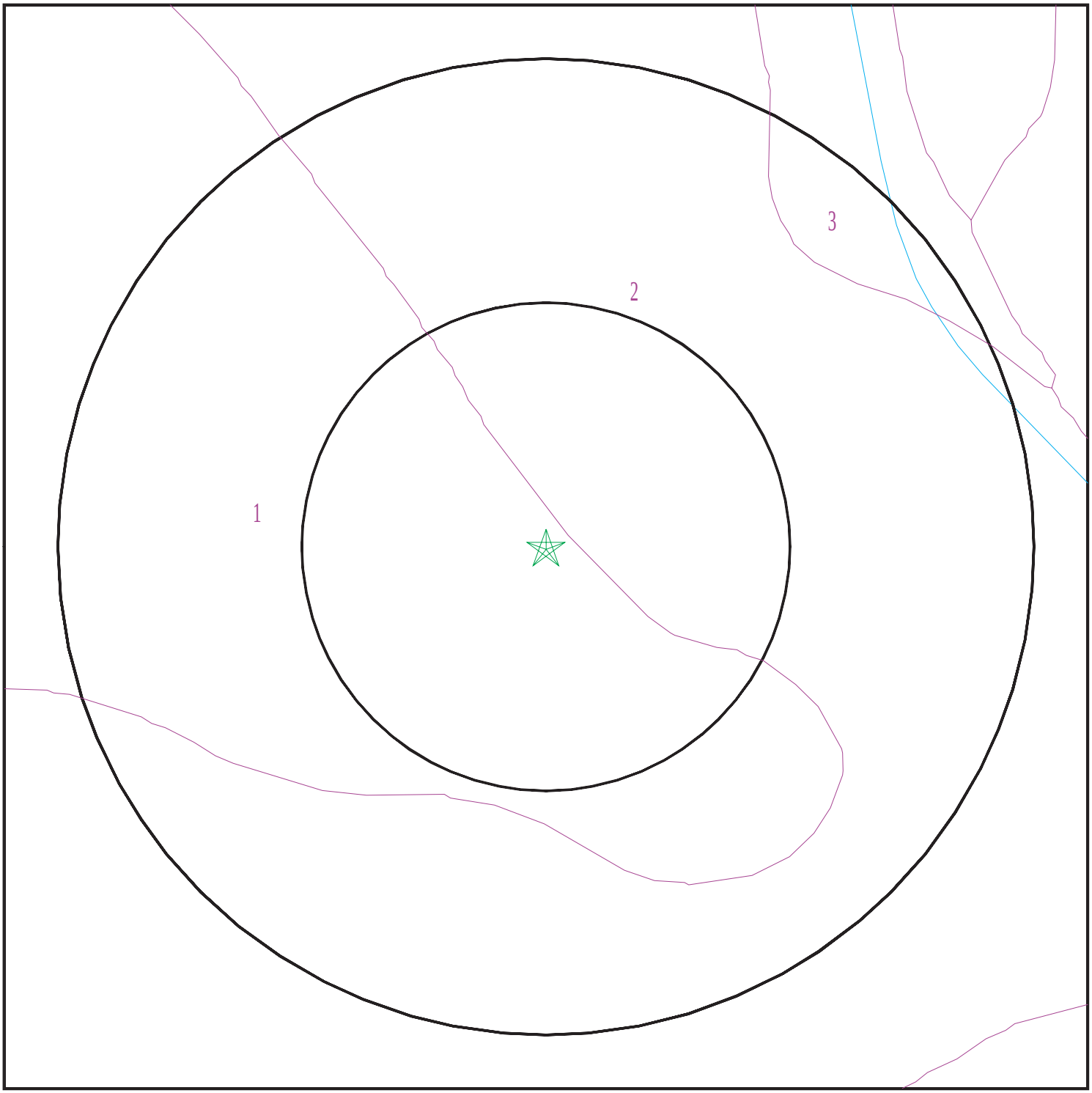
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5567027.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Vineyard Avenue and 9th Street	CLIENT:	Avocet Environmental, Inc.
ADDRESS:	Vineyard Avenue and 9th Street Rancho Cucamonga CA 91730	CONTACT:	Jessica Satterlee
		INQUIRY #:	5567027.2s
LAT/LONG:	34.09333 / 117.615461	DATE:	February 19, 2019 11:05 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Soboba

Soil Surface Texture: very stony loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	very stony loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.6
2	9 inches	59 inches	very stony sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.6

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 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000140819	1/2 - 1 Mile SSW

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
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5567027.2s

County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Vineyard Avenue and 9th Street	CLIENT:	Avocet Environmental, Inc.
ADDRESS:	Vineyard Avenue and 9th Street Rancho Cucamonga CA 91730	CONTACT:	Jessica Satterlee
LAT/LONG:	34.09333 / 117.615461	INQUIRY #:	5567027.2s
		DATE:	February 19, 2019 11:05 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000140819**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007W04B002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91730	34	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91730

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.400 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

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.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix H

EDR Environmental Lien and AUL Search

AVOCET
ENVIRONMENTAL, INC.

Vineyard Avenue and 9th Street
Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730

Inquiry Number: 5588147.1
March 14, 2019

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.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

Vineyard Avenue and 9th Street
Vineyard Avenue and 9th Street
Rancho Cucamonga, CA 91730

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

RESEARCH SOURCE

Source 1:

San Bernardino Recorder
San Bernardino, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	deed
Title is vested in:	Craig Scheu
Title received from:	Leland Charles Scheu
Deed Dated	6/17/2014
Deed Recorded:	6/26/2014
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Craig Scheu
Parcel # / Property Identifier:	020727193, 020727194, 020727196
Comments:	See Exhibit

Deed 2:

Type of Deed:	deed
Title is vested in:	Allyn B Scheu Trustee Michael S League Suzanne F L
Title received from:	Lad Co LLC
Deed Dated	6/17/2014
Deed Recorded:	6/27/2014
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Allyn B Scheu Trustee Michael S League Suzanne F League etal
Parcel # / Property Identifier:	020727125
Comments:	See Exhibit

Deed Exhibit 1

2

RECORDING REQUESTED BY

First American Title Company NCS

AND WHEN RECORDED MAIL DOCUMENT AND TAX STATEMENT TO:

NAME Craig Scheu

STREET ADDRESS P.O. Box 250

CITY, STATE & ZIP CODE Upland, CA 91786

Electronically Recorded in Official Records, County of San Bernardino

6/26/2014
01:16 PM
NP

DENNIS DRAEGER
ASSESSOR - RECORDER - CLERK
691 First American

Doc #: 2014-0230831

Titles: 1 Pages: 7

Fees	56.00
Taxes	.00
Other	.00
PAID	56.00

SPACE ABOVE FOR RECORDER'S USE ONLY

Affidavit - Death of Trustee

Title of Document

THIS AREA FOR RECORDER'S USE ONLY

THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
($3.00 Additional Recording Fee Applies)

2

RECORDING REQUESTED BY
First American Title Company National Commercial Services

AND WHEN RECORDED MAIL DOCUMENT TO:
Craig Scheu
P.O. Box 250
Upland, CA 91786

Space Above This Line for Recorder's Use Only

A.P.N.: 0207-271-27

File No.: NCS-612925-ONT1 (jd)

Affidavit - Death of Trustee

State of **California**)
)ss.
County of **San Bernardino**)

Craig Scheu ("Declarant") is of legal age, being first duly sworn, deposes and states under penalty of perjury under the laws of the State of California:

1. **Leland Charles Scheu** ("Decedent") is the person referenced in the attached certified copy of the Certificate of Death who died on **05/06/2014** at **Upland** (city and state of death).

2. Decedent is the same person named as the trustee in that certain Declaration of Trust dated **05/18/1990** executed by **Leland Scheu** as trustor(s) (the "Trust").

3. Decedent as a trustee is the same person who was named as a grantee in that certain **Grant Deed** dated **12/22/2004** which was recorded on **12/29/2004** as Instrument No. **2004-0956836** in Book **None**, Page **None**, of Official Records of **San Bernardino** County, California as legally described as follows:

Legal Description attached hereto as Exhibit "A" and incorporated herein by this reference

4. Declarant is the successor trustee under the Trust. The Trust was in effect at the date of the death of the Decedent and has not been revoked. Declarant has consented to act as trustee under the Trust.

Dated: 06/17/2014

DECLARANT:

Craig Scheu

State of California

County of San Bernardino

Subscribed and sworn to (or affirmed) before me on this 17th day of June, 20 14, by Craig Schey proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature _____ (Seal)

CLAUDIA J. COULTER
Commission # 2058562
Notary Public - California
San Bernardino County
My Comm. Expires Feb 21, 2018

CERTIFICATION

Pursuant to the provisions of Government Code 27361.7, I certify under the penalty of perjury that the following is a true copy of illegible wording found in the attached documents:

(Print or type the page number(s) and wording below):

Subscribed and sworn to (or affirmed) before me on this 17th day of June 2014, By Craig Scheu proved to me on the Basis of satisfactory evidence to be the person(s) who appeared before

Date: 6/25/14

Signature: Shelby Bilyk

Shelby Bilyk DPS Agent

Exhibit "A"

Legal Description

Real property in the City of Rancho Cucamonga, County of San Bernardino, State of California, described as follows:

PARCEL B:

PARCEL NO. 1 AS SHOWN ON CERTIFICATE OF COMPLIANCE NO. 672 FOR LOT LINE ADJUSTMENT AS EVIDENCED BY DOCUMENT RECORDED JUNE 30, 2009 AS INSTRUMENT NO. 2009-0285832 OF OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THAT PORTION OF LOT 32, SECTION 9, TOWNSHIP 1 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO MAP OF CUCAMONGA FRUIT LANDS AS PER PLAT RECORDED IN BOOK 4 OF MAPS, PAGE 9, RECORDS OF SAID COUNTY, LYING NORTHERLY OF THE NORTH LINE OF THE ACHISON, TOPEKA AND SANTA FE RAILROAD RIGHT OF WAY (100 FEET WIDE).

EXCEPTING THEREFROM, THAT PORTION LYING NORTHERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE INTERSECTION OF THE NORTH LINE OF LOT 32 AND THE WEST LINE OF THE EAST HALF OF LOT 32;
THENCE SOUTH 00° 13' 15" WEST 102.56 FEET;
THENCE SOUTH 89° 46' 45" EAST 433.83 FEET;
THENCE SOUTH 00° 13' 15" WEST 8.30 FEET;
THENCE SOUTH 89° 46' 45" EAST 213.03 FEET TO THE EAST LINE OF SAID LOT 32.

PARCEL C:

INTENTIONALLY DELETED

PARCEL D:

PARCEL NO. 3 AS SHOWN ON CERTIFICATE OF COMPLIANCE NO. 672 FOR LOT LINE ADJUSTMENT AS EVIDENCED BY DOCUMENT RECORDED JUNE 30, 2009 AS INSTRUMENT NO. 2009-0285832 OF OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THAT PORTION OF THE EAST HALF OF LOT 25, SECTION 9, TOWNSHIP 1 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO MAP OF CUCAMONGA FRUIT LANDS AS PER PLAT RECORDED IN BOOK 4 OF MAPS, PAGE 9, RECORDS OF SAID COUNTY, LYING WEST OF THAT CERTAIN EASEMENT CONVEYED TO THE SAN BERNARDINO COUNTY FLOOD DISTRICT BY DEED DATED NOVEMBER 23, 1943, AND RECORDED DECEMBER 02, 1943, IN BOOK 1642, PAGE 319, OF OFFICIAL RECORDS.

EXCEPTING THEREFROM THE NORTH 30.00 FEET OF THE PROPERTY HEREIN DESCRIBED, AS CONVEYED TO THE COUNTY OF SAN BERNARDINO FOR HIGHWAY PURPOSES, BY DEED RECORDED APRIL 09, 1932, IN BOOK 809, PAGE 195, OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT, BY DEED RECORDED FEBRUARY 28, 1979, IN BOOK 9632, PAGE 663, OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THAT PORTION LYING SOUTHERLY OF THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE INTERSECTION OF THE WEST LINE OF THE EAST HALF OF SAID LOT 25 WITH THE NORTH LINE OF SAID LOT;
THENCE SOUTH 89° 45' 40" EAST 55.50 FEET TO THE TRUE POINT OF BEGINNING;
THENCE SOUTH 00° 13' 15" WEST 222.33 FEET;
THENCE SOUTH 17° 39' 31" EAST 123.77 FEET;
THENCE SOUTH 00° 13' 15" WEST 43.18 FEET;
THENCE SOUTH 89° 46' 45" EAST 371.43 FEET TO THE WESTERLY LINE OF THAT PORTION CONVEYED TO THE SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT BY DEED DATED NOVEMBER 23, 1943, AND RECORDED DECEMBER 02, 1943, IN BOOK 1642, PAGE 319, OF OFFICIAL RECORDS.

APN: 0207-271-27 and 0207-271-25 and 0207-271-94 and 0207-271-96 and 0207-271-93 and 0207-271-89

STATE OF CALIFORNIA

CERTIFICATION OF VITAL RECORD

COUNTY of SAN BERNARDINO

DEPARTMENT OF PUBLIC HEALTH

351 N. MT. VIEW AVENUE, SAN BERNARDINO, CALIFORNIA 92415-0010

CERTIFICATE OF DEATH
STATE OF CALIFORNIA
USE BLACK INK ONLY / NO ERASURES, WHITEOUTS OR ALTERATIONS
VS-11a(REV 3/06)

STATE FILE NUMBER

LOCAL REGISTRATION NUMBER: 3201436004738

DECEDENT'S PERSONAL DATA

1. NAME OF DECEDENT – FIRST (Given): LELAND
2. MIDDLE: CHARLES
3. LAST (Family): SCHEU

AKA. ALSO KNOWN AS – Include full AKA (FIRST, MIDDLE, LAST):

4. DATE OF BIRTH mm/dd/ccyy: 02/03/1929
5. AGE Yrs.: 85 | IF UNDER ONE YEAR: Months / Days | IF UNDER 24 HOURS: Hours / Minutes
6. SEX: M

9. BIRTH STATE/FOREIGN COUNTRY: CA
10. SOCIAL SECURITY NUMBER: [redacted]-0308
11. EVER IN U.S. ARMED FORCES? ☐ YES ☒ NO ☐ UNK
12. MARITAL STATUS/SRDP* (at Time of Death): WIDOWED
7. DATE OF DEATH mm/dd/ccyy: 05/06/2014
8. HOUR (24 Hours): 1429

13. EDUCATION – Highest Level/Degree (see worksheet on back): BACHELOR
14/15. WAS DECEDENT HISPANIC/LATINO(A)/SPANISH? (If yes, see worksheet on back) ☐ YES ☒ NO
16. DECEDENT'S RACE – Up to 3 races may be listed (see worksheet on back): WHITE

17. USUAL OCCUPATION – Type of work for most of life. DO NOT USE RETIRED: OWNER
18. KIND OF BUSINESS OR INDUSTRY (e.g., grocery store, road construction, employment agency, etc.): HEATING MANUFACTURING
19. YEARS IN OCCUPATION: 70

USUAL RESIDENCE

20. DECEDENT'S RESIDENCE (Street and number, or location): 244 W. 24TH ST
21. CITY: UPLAND
22. COUNTY/PROVINCE: SAN BERNARDINO
23. ZIP CODE: 91784
24. YEARS IN COUNTY: 84
25. STATE/FOREIGN COUNTRY: CA

INFORMANT

26. INFORMANT'S NAME, RELATIONSHIP: NEVIN LEE SCHEU, DAUGHTER
27. INFORMANT'S MAILING ADDRESS (Street and number, or rural route number, city or town, state and zip): 244 W. 24TH ST, UPLAND, CA 91784

SPOUSE/SRDP AND PARENT INFORMATION

28. NAME OF SURVIVING SPOUSE/SRDP*–FIRST: -
29. MIDDLE: -
30. LAST (BIRTH NAME): -

31. NAME OF FATHER/PARENT–FIRST: WILLIS
32. MIDDLE: LELAND
33. LAST: SCHEU
34. BIRTH STATE: CO

35. NAME OF MOTHER/PARENT–FIRST: RUTH
36. MIDDLE: MILDRED
37. LAST (BIRTH NAME): ALLEN
38. BIRTH STATE: SD

FUNERAL DIRECTOR/ LOCAL REGISTRAR

39. DISPOSITION DATE mm/dd/ccyy: 05/16/2014
40. PLACE OF FINAL DISPOSITION: BELLEVUE MEMORIAL PARK, 1240 W. G ST, ONTARIO, CA 91762

41. TYPE OF DISPOSITION(S): BU
42. SIGNATURE OF EMBALMER: ▶ ROY KINNEY
43. LICENSE NUMBER: EMB6608

44. NAME OF FUNERAL ESTABLISHMENT: STONE FUNERAL HOME
45. LICENSE NUMBER: FD272
46. SIGNATURE OF LOCAL REGISTRAR: ▶ MAXWELL OHIKHUARE, MD
47. DATE mm/dd/ccyy: 05/14/2014

PLACE OF DEATH

101. PLACE OF DEATH: SAN ANTONIO COMMUNITY HOSPITAL
102. IF HOSPITAL, SPECIFY ONE: ☐ IP ☒ ER/OP ☐ DOA
103. IF OTHER THAN HOSPITAL, SPECIFY ONE: ☐ Hospice ☐ Nursing Home/LTC ☐ Decedent's Home ☐ Other

104. COUNTY: SAN BERNARDINO
105. FACILITY ADDRESS OR LOCATION WHERE FOUND (Street and number, or location): 999 SAN BERNARDINO RD
106. CITY: UPLAND

CAUSE OF DEATH

107. CAUSE OF DEATH — Enter the chain of events --- diseases, injuries, or complications --- that directly caused death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE.

		Time Interval Between Onset and Death
IMMEDIATE CAUSE (Final disease or condition resulting in death) →	(A) ASPHYXIA	(AT) MINS
Sequentially, list conditions, if any, leading to cause on Line A. Enter UNDERLYING CAUSE (disease or injury that initiated the events resulting in death) LAST	(B) OBSTRUCTION OF THE AIRWAY BY FOOD	(BT) MINS
	(C)	(CT)
	(D)	(DT)

108. DEATH REPORTED TO CORONER? ☒ YES ☐ NO — REFERRAL NUMBER: 701403559
109. BIOPSY PERFORMED? ☐ YES ☒ NO
110. AUTOPSY PERFORMED? ☐ YES ☒ NO
111. USED IN DETERMINING CAUSE? ☐ YES ☐ NO

112. OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH BUT NOT RESULTING IN THE UNDERLYING CAUSE GIVEN IN 107: UNSPECIFIED DEMENTIA

113. WAS OPERATION PERFORMED FOR ANY CONDITION IN ITEM 107 OR 112? (If yes, list type of operation and date.): NO
113A. IF FEMALE, PREGNANT IN LAST YEAR? ☐ YES ☐ NO ☐ UNK

PHYSICIAN'S CERTIFICATION

114. I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE DEATH OCCURRED AT THE HOUR, DATE, AND PLACE STATED FROM THE CAUSES STATED.
Decedent Attended Since: (A) mm/dd/ccyy — Decedent Last Seen Alive: (B) mm/dd/ccyy
115. SIGNATURE AND TITLE OF CERTIFIER: ▶
116. LICENSE NUMBER:
117. DATE mm/dd/ccyy:
118. TYPE ATTENDING PHYSICIAN'S NAME, MAILING ADDRESS, ZIP CODE:

CORONER'S USE ONLY

119. I CERTIFY THAT IN MY OPINION DEATH OCCURRED AT THE HOUR, DATE, AND PLACE STATED FROM THE CAUSES STATED.
MANNER OF DEATH: ☐ Natural ☒ Accident ☐ Homicide ☐ Suicide ☐ Pending Investigation ☐ Could not be determined
120. INJURED AT WORK? ☐ YES ☒ NO ☐ UNK
121. INJURY DATE mm/dd/ccyy: 05/06/2014
122. HOUR (24 Hours): 1346
123. PLACE OF INJURY (e.g., home, construction site, wooded area, etc.): RESIDENCE
124. DESCRIBE HOW INJURY OCCURRED (Events which resulted in injury): CHOKED ON FOOD AT HOME
125. LOCATION OF INJURY (Street and number, or location, and city, and zip): 244 W. 24TH STREET, UPLAND, CA 91784
126. SIGNATURE OF CORONER / DEPUTY CORONER: ▶ DONNA L SOBIESIAK
127. DATE mm/dd/ccyy: 05/14/2014
128. TYPE NAME, TITLE OF CORONER / DEPUTY CORONER: DONNA L SOBIESIAK, DEPUTY CORONER

STATE REGISTRAR	A	B	C	D	E		FAX AUTH.#	CENSUS TRACT
	25-5-15					*010001002638533*		

CERTIFIED COPY OF VITAL RECORDS

STATE OF CALIFORNIA
COUNTY OF SAN BERNARDINO } SS

DATE ISSUED **May 15,2014**

This is a true and exact reproduction of the document officially registered and placed on file in the VITAL RECORDS SECTION, SAN BERNARDINO DEPARTMENT OF PUBLIC HEALTH.

MAXWELL OHIKHUARE, M.D.
COUNTY HEALTH OFFICER
REGISTRAR OF VITAL STATISTICS

002307169

This copy not valid unless prepared on engraved border displaying seal and signature of Registrar.

PBNCO (Rev) 10/13

PACIFIC BANCNOTE CO. • NBN CO.

ANY ALTERATION OR ERASURE VOIDS THIS CERTIFICATE

THE GREAT SEAL OF THE STATE OF CALIFORNIA — EUREKA

DEPARTMENT OF PUBLIC HEALTH — COUNTY OF SAN BERNARDINO

Deed Exhibit 2

Recorded in Official Records, County of San Bernardino

6/27/2014
4:04 PM
LB

DENNIS DRAEGER
ASSESSOR – RECORDER – CLERK

P Counter

Doc#: 2014–0233505

Titles: 1 **Pages: 3**

Fees	23.00
Taxes	0.00
Other	6.00
PAID	$29.00

HNWE LAND
RECORDING REQUESTED BY
AND WHEN RECORDED MAIL
THIS DEED TO:

MAIL TAX STATEMENTS TO

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

APN: 207-271-25

SPACE ABOVE THIS LINE FOR RECORDER'S USE
THE GRANTORS AND GRANTEES IN THIS CONVEYANCE ARE COMPRISED OF THE SAME PARTIES WHO CONTINUE TO HOLD THE SAME PROPORTIONATE INTEREST R & T 11925(d)

GRANT DEED

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: REFDER & ASSOC.

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **LAD Company, LLC, a California limited liability company**

hereby GRANTS to ALLYN B. SCHEU, as trustee Scheu Family 2012 Trust dated December 31, 2012 as to an undivided 17.334% interest, Michael S. League as to an undivided 5% interest, Suzanne F. League as to an undivided 5% interest, Brian C. League as to an undivided 5% interest, Daniel N. League, Jr. and Amanda T. Jozsa, as trustees of League Living Trust dated February 24, 2013 as to an undivided 18.333% interest, Nevin Scheu, as trustee of the Nevin Scheu Trust dated October 1, 2008 as to an undivided 8% interest, Leland Scheu, Nevin Scheu and Allyson Scheu McQuade as trustees of the L & J Scheu Living Trust 1990 dated May 18, 1990 as to an undivided 17.333% interest, Curtis B. Scheu as trustee of the Curtis B. Scheu 2011 Revocable Trust dated February 7, 2011 as to an undivided 4% interest, Allyson S. McQuade, as trustee of the Allyson Scheu McQuade Separate Property Trust dated April 9, 2001 as to an undivided 8% interest, Mark L. Scheu and Diana Scheu as trustees of the Mark and Diana Scheu 2009 Revocable Trust date July 24, 2009 as to an undivided 4% interest, Craig A. Scheu, as trustee of the Craig Scheu and Kathleen M. Scheu 2001 Revocable Trust dated February 27, 2001 as to an undivided 4% interest and Kristin Scheu Overman as to an undivided 4% interest, all as tenants-in-common.

the following described real property in the County of San Bernardino, State of California

SEE EXHIBIT A attached hereto and incorporated herein by reference.

LAD COMPANY, LLC
a California limited liability company

By: Scheu Family 2012 Trust
dated December 31, 2012
Its: manager

By: _____
Allyn B. Scheu, Trustee

Document Dated: June 18, 2014

MAIL TAX STATEMENTS TO **SAME AS ABOVE**

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California
County of San Bernardino }
On June 18, 2014 before me, Claudia J. Coulter, Notary Public
Date — Here Insert Name and Title of the Officer
personally appeared Allyn B. Scheu
Name(s) of Signer(s)

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 upon behalf of which the person(~~s~~) acted, executed the instrument.

CLAUDIA J. COULTER
Commission # 2058562
Notary Public - California
San Bernardino County
My Comm. Expires Feb 21, 2018

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: Claudia Coulter
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Individual
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Individual
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

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Item #5907

EXHIBIT A
LEGAL DESCRIPTION

ALL THAT PORTION OF LOT 31 LYING NORTH OF THE RIGHT OF WAY OF THE SOUTHERN CALIFORNIA RAILROAD COMPANY, SECTION 9, TOWNSHIP 1 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE MERIDIAN, ACCORDING TO THE MAP OF CUCAMONGA LANDS, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER PLAT RECORDED IN BOOK 4 OF MAPS, PAGE 9, RECORDS OF SAID COUNTY

EXCEPTING THEREFROM THE WEST 200 FEET OF THE NORTH 160 FEET THEREOF.

MISCELLANEOUS EXHIBITS

Recording Requested By:
First American Title Insurance Company
National Commercial Services, Ontario, CA
NCS 924519-ONT1

Electronically Recorded in Official Records, County of San Bernardino 2/28/2019 01:15 PM FV

BOB DUTTON
ASSESSOR - RECORDER - CLERK
468 First American Title Ontario

Doc# 2019-0063185

Titles 1 Pages 3

Fees	20.00
Taxes	.00
CA SB2 Fee	.00
Others	.00
Paid	20.00

RECORDING REQUESTED BY:

First American Title Insurance Company

WHEN RECORDED MAIL TO AND MAIL TAX STATEMENTS TO:

Scheu Management Corporation
P.O. Box 250
Upland, CA 91785

APN: 0207-271-25

SPACE ABOVE FOR RECORDER'S USE ONLY

*The conveyance is exempt from transfer tax pursuant to California Revenue and Taxation Code Section 11911: Grantor and Grantee are comprised of the same parties and their proportional interest remains the same immediately following transfer.

This document is exempt from the $75 Building Homes and Jobs Act Fee (per Government Code Section 27388.1) because:

☐ Document is a transfer of real property subject to the imposition of transfer tax
☐ Document is a transfer of real property that is a residential dwelling to an owner-occupier
☒ Document if recorded in connection with an exempt transfer of real property (i.e., subject to transfer tax or owner-occupied). If not recorded concurrent, provide recording date and document number of related transfer document:
Recording date _____ Document No._____
☐ The $225 per transaction cap reached
☐ Document is not related to real property

CORRECTIVE GRANT DEED

Pursuant to that certain Grant Deed dated June 18, 2014 (the "**Original Deed**") and recorded June 27, 2014 as Instrument No. 2014-0233505 in the Official Records of San Bernardino County, California (the "**Official Records**"), Suzanne F. League, the undersigned grantor, acquired an undivided 5% interest as tenant-in-common in that certain real property described in Exhibit A attached hereto and made a part hereof, and any and all appurtenant rights relating thereto (the "**Property**"). The Original Deed incorrectly listed Suzanne League's middle initial as F when her correct middle name is Elizabeth. The Original Deed incorrectly listed Suzanne League's maiden name and prior to the date of the Original Deed, Suzanne League had married and her married name is Suzanne E. Christian.

FOR A VALUABLE CONSIDERATION, RECEIPT AND SUFFICIENCY OF WHICH IS HEREBY ACKNOWLEDGED, **SUZANNE F. LEAGUE** ("**Grantor**"), hereby grants to **SUZANNE E. CHRISTIAN,** a married woman, as her sole and separate property ("**Grantee**"), all of Grantor's right, title and interest in and to the Property, which interest is an undivided 5% interest, as tenant-in-common, subject to all covenants, conditions, restrictions, reservations, rights, rights-of-way, dedications, offers of dedication, easements and other matters of record.

This Corrective Grant Deed is being recorded to correct record title, with respect to Grantee's undivided 5% interest in the Property, as tenant-in-common.

DATED: February 22, 2019

GRANTOR:

Suzanne F. League
SUZANNE F. LEAGUE

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF KANSAS)
) ss.
COUNTY OF Johnson)

On February 22, 2019, before me, Amanda Stephenson, Notary Public, personally appeared Suzanne F. League 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 upon behalf of which the person(s) acted, executed the instrument.

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

WITNESS my hand and official seal.

Signature [illegible] (Seal)

NOTARY PUBLIC - State of Kansas
AMANDA STEPHENSON
My Appt. Expires 11-16-20

EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

All that certain real property located in the City of Rancho Cucamonga, County of San Bernardino, State of California, described as follows:

ALL THAT PORTION OF LOT 31 LYING NORTH OF THE RIGHT OF WAY OF THE SOUTHERN CALIFORNIA RAILROAD COMPANY, SECTION 9, TOWNSHIP 1 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE MAP OF CUCAMONGA LANDS, IN THE CITY OF RANCHO CUCAMONGA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER PLAT RECORDED IN BOOK 4 OF MAPS, PAGE 9, RECORDS OF SAID COUNTY.

EXCEPTING THEREFROM THE WEST 200 FEET OF THE NORTH 160 FEET THEREOF.

APN: 0207-271-25

Appendix H-2

Phase II Environmental Site Assessment

May 26, 2021 Project No. 1592.005

Mr. Guillermo Accame
Director of Risk Management
PANATTONI DEVELOPMENT COMPANY, INC.
7887 East Belleview Avenue, Suite 475
Denver, Colorado 80111

Updated Phase II Investigation Report
SWC 9th Street & Vineyard Avenue
Rancho Cucamonga, California 91761

Dear Mr. Accame:

In April 2019, Avocet Environmental, Inc. (Avocet) conducted a Phase II subsurface environmental investigation at the approximately 47.48-acre, nine-parcel assemblage on the southwest corner (SWC) of 9th Street and Vineyard Avenue in Rancho Cucamonga, California (the site). Avocet conducted the investigation on behalf of Panattoni Development Company, Inc. (Panattoni), one of whose affiliates may purchase the site and develop it with a commercial/industrial building[1]. The site location is shown in Figure 1 and aerial photographs of the site, showing the Phase II investigation locations, are presented in Figures 2 and 3. The parcels that comprise the site have been used for a variety of purposes, including agriculture and industrial. Based on a Phase I environmental site assessment conducted for the site (Avocet, June 14, 2019), agricultural use dates back to the time period when organochlorine pesticides (OCPs) were widely used in the United States. In addition, the use of petroleum, oils, and lubricants (POLs) have been documented at the site as has evidence of surficial spills based on observations of staining in work areas. Two of the parcels have featured underground storage tanks (USTs) containing diesel, gasoline, and solvents in the past. Based on the above, the subject investigation involved the collection and analysis of near-surface soil samples for OCPs, arsenic, and lead; soil matrix samples for total petroleum hydrocarbons (TPH), heavy metals, and volatile organic compounds (VOCs); and soil vapor samples for VOCs. In Avocet's June 17, 2019 report on the Phase II investigation, the results of the soil and soil vapor sample analyses were compared to then-current screening levels published by the California Department of Toxic Substances Control (DTSC), the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), and the U.S. Environmental Protection Agency (EPA). This updated report compares the results of the soil and soil vapor sample analyses to current screening levels published by these agencies.

[1] In addition to Panattoni Development Company, Inc., the following entities may rely on this report: CP Logistics Vineyard LLC; CP Logistics Platform, LLC; Panattoni CLP, LLC; Panattoni CLP Operator, LLC; CDP Development, Inc.; PDC OC/IE LLC; and Principal Real Estate Investors, LLC

1 Technology Drive, Suite C515 ▪ Irvine, California 92618-5302
Phone 949-296-0977 ▪ Fax 949-296-0978
www.avocetenv.com

BACKGROUND

Available records for the subject site indicate that it was used for agriculture from at least as far back as 1938 and up to as recently as 1959. A majority of the site was planted with trees, assumed to have been citrus trees. In addition to agriculture, portions of the site have featured residential structures, one of which is still standing at 8803 Baker Avenue. Commercial and industrial use at the site began as early as 1949, with the addition of a welding shop, which has since been removed. Current commercial/industrial use of the site includes Merchant Landscape Services (Merchant Landscape) at 8847 East 9th Street; a radio station and associated radio masts at 8729 East 9th Street; a steel manufacturing company, Scheu Steel Supply (Scheu Steel), at 8830 Vineyard Avenue, and a warehouse used by Ecoplast at 8855 Baker Avenue. The remainder of the site consists of vacant, undeveloped land.

The subject site has historically featured a total of nine USTs. Seven of the USTs were located at 8855 Baker Avenue and were operated by a former tenant, Patrini Shoes. All seven USTs had capacities of 2,000 gallons and six contained methyl ethyl ketone (MEK) while one contained methyl isobutyl ketone (MIBK). The two remaining USTs were located at 8830 Vineyard Avenue and were operated by Scheu Steel. These USTs included a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline. Although available laboratory data did not indicate that the USTs had impacted the subsurface and none of the regulatory agencies involved in the removal of these USTs appear to have requested additional sampling or investigation, Avocet has not been able to locate any formal UST closure documentation. Further, it is noted that the laboratory data that are available would not satisfy current UST closure requirements. Specifically, the available data do not address the potential presence of VOCs in soil vapor in the vicinity of the former USTs.

Other, more general environmental conditions and/or features at the site include the possible use of OCPs during historical agricultural use and the documented storage of pesticides and herbicides by Merchant Landscape. In addition, both Merchant Landscape and Scheu Steel operated and maintain equipment at the site associated with POLs.

HEALTH AND SAFETY

The subject Phase II investigation was conducted in accordance with a site-specific Health and Safety Plan (HASP). The HASP identified the potential chemical and physical hazards that may be encountered at the site, as well as the "generic" hazards associated with working in an outdoor environment. It also specified the measures to be taken to avoid or minimize these hazards. The identification of potential chemical hazards was based on the types of chemicals potentially present in the subsurface based on the types of operations known to have been conducted at and around the site. The identification of potential physical hazards was based primarily on the type(s) of investigation equipment used during the subsurface investigation, the potential for encountering and damaging subsurface or overhead utilities, and the potential hazards posed by external factors such as heat. Based on the identified hazards, the HASP specified the minimum level of personal protective equipment (PPE) to be worn, the type(s) of monitoring to be conducted, the circumstances under which the minimum PPE will be upgraded, and other

protective measures. The HASP also provided emergency contact information and the route to the nearest hospital with an emergency room.

All field personnel were required to review the HASP prior to any fieldwork involving possible exposure to the potential chemical or physical hazards and to sign a HASP Distribution Record form to acknowledge that they have reviewed it and agree to abide by its requirements. Subcontractors providing onsite services had the option of following Avocet's or their own HASP, provided it was at least as stringent. The Phase II investigation was completed without any health and safety incidents of any description.

SUBSURFACE UTILITY CLEARANCE

Prior to initiation of intrusive field work, the boring locations were marked out on the ground with white chalk-based paint. The boring locations were selected to avoid obvious subsurface utility conflicts, such as may be indicated on utility plans or by trench scars, vaults, protruding pipes, and the like. As required by law, Underground Service Alert of Southern California (aka DigAlert) was notified a minimum of 48 hours (two working days) before any intrusive field work began. As a final precautionary measure against possible subsurface utility conflicts, the upper 10 feet of all borings were completed using a hand auger, as opposed to powered drilling equipment.

NEAR-SURFACE SOIL SAMPLING

Between April 11 and 12, 2019, Avocet collected near-surface soil matrix samples at the site for OCP, arsenic, and lead analysis in general accordance with DTSC guidance entitled "Interim Guidance for Sampling Agricultural Properties" (DTSC, August 7, 2008). In brief, this guidance specifies the number of discrete soil samples to be collected at properties of various sizes: The guidance also indicates that OCP assessment is not necessary at sites that have been developed or graded since agricultural use. As such, Avocet only included the remaining undeveloped portions of the site in the total acreage calculation. For conservatism, and given that the undeveloped portions of the subject site occupy approximately 30 acres, Avocet collected discrete surface soil samples at 40 locations in each of 10 "subareas" of the site, for a total of 40 discrete samples (Samples S-1 through S-40), the locations of which are shown in Figure 2. At each of the 40 discrete sample locations, Avocet collected soil from the ground surface to approximately 6 inches below ground surface (bgs) and packed it into two 8-ounce glass sample jars, one to be composited for OCP analysis and one for possible arsenic and lead analysis. The samples were collected using a clean garden trowel, and the resulting holes were backfilled with soil from the surrounding area. The soil-filled jars were labeled, sealed in freezer bags, and placed on ice in a cooler.

Avocet hand delivered the 40 discrete soil samples under chain of custody to the Eurofins Calscience (Eurofins) laboratory in Garden Grove, California. In accordance with DTSC guidance (DTSC, August 7, 2008), Avocet instructed Eurofins to combine the 40 discrete soil samples, by equal volume, into 10 composites (Samples C-1 through C-10) for OCP analysis using EPA Method 8081A. The makeup of the ten composite samples is shown in Figure 2. Avocet also instructed Eurofins to analyze ten of the discrete soil samples, one for each of the ten

composite samples, for arsenic and lead using EPA Method 6010B. The results of the OCP and metals analyses are summarized in Tables 1 and 2, respectively, and are presented in full in the Eurofins laboratory report in Attachment 1.

BORINGS AND SOIL SAMPLING

The Phase II investigation included 16 borings advanced to depths between 5 and 26 feet bgs. Five borings (SV-1 through SV-5) were advanced using a direct-push drill rig and completed with dual-nested soil vapor probes at the locations shown in Figure 2. The nested vapor probes were installed between April 11 and 12, 2019 and were sampled on April 16, 2019. Eight of the borings (B-1 through B-8) were advanced using a hand auger for soil sampling purposes between April 11 and 12, 2019. The three remaining borings (B-9 through B-11) were advanced using a hand auger on April 30, 2019 as "step-outs" from Boring B-8 based on initial laboratory results. Avocet had originally intended to advance the direct-push Borings SV-1 through SV-5 to total depths of 40 feet bgs. However, refusal was met in each boring due to cobbles and boulders in the subsurface, which is common near the base of San Gabriel Mountains. Similarly, refusal was met in four of the hand augered borings, including Boring B-3, B-9, B-10, and B-11. The total boring depths achieved, sampling intervals, probe installation depths, and environmental targets are presented in the table below.

Soil Boring Detail Summary				
Boring No.	**Boring Depth** (feet bgs)	**Environmental Target**	**Soil Sample Depths** (feet bgs)	**Probe Depths** (feet bgs)
SV-1	16	Former Patrini Shoes USTs	2, 5, 10, 15	5 & 15
SV-2	16	Former Patrini Shoes USTs	2, 5, 10, 15	5 & 15
SV-3	16	Former Patrini Shoes USTs	2, 5, 10, 15	5 & 14*
SV-4	19	Former Scheu Steel USTs	5, 10, 15, 19	5 & 15
SV-5	26	Former Scheu Steel USTs	10, 15, 20, 25	5 & 15
B-1	5	Scheu Steel POL Assessment	2, 5	-
B-2	5	Scheu Steel POL Assessment	2, 5	-
B-3	2.5	Scheu Steel POL Assessment	2	-
B-4	5	Scheu Steel POL Assessment	2, 5	-
B-5	5	Merchant Landscape POL & Pesticide Assessment	2, 5	-
B-6	5	Merchant Landscape POL & Pesticide Assessment	2, 5	-
B-7	5	Merchant Landscape POL & Pesticide Assessment	2, 5	-
B-8	5	Merchant Landscape POL & Pesticide Assessment	2, 5	-
B-9	2	Merchant Landscape POL & Pesticide Assessment	2	-
B-10	2	Merchant Landscape POL & Pesticide Assessment	2	-
B-11	2	Merchant Landscape POL & Pesticide Assessment	2	-

Notes: * = Probe set at 14 feet bgs instead of 15 feet bgs due to cave-in at bottom of boring

Drilling and Soil Sampling

After wet coring the pavement or floor slab as necessary, Borings SV-1 through SV-5 were hand augered to a nominal depth 10 feet bgs to clear them for possible subsurface utility conflicts. Borings SV-1 through SV-5 were then deepened using a direct-push drill rig provided by

Strongarm Environmental Field Services, Inc. (Strongarm), a C-57 licensed drilling contractor based in Norwalk, California. Borings B-1 through B-11 were hand augered to their total depths, as indicated above.

Strongarm advanced the borings using dual-tube direct-push technology, with 2.25-inch-diameter outer rods used to case off the borings and 1-inch-diameter inner rods used for soil sample collection. Drill cuttings from the borings and excess soil from the sampling devices were carefully examined in the field and screened for indications of contamination, including, but not limited to, discoloration, excess moisture, and/or odors in ambient air. In addition, soil subsamples were screened for the possible presence of organic vapors using a calibrated photoionization detector (PID). The organic vapor screening process involved placing a soil subsample in a freezer bag, allowing organic vapors (if any) to equilibrate, and then screening the bag headspace for organic vapors using the PID. The soils encountered were visually classified based on the Unified Soil Classification System and ASTM International Standard D2488 and recorded on field boring logs. The edited field boring logs are included as Attachment 2 to this report. No elevated PID readings were recorded in any of the 16 borings, nor were there any other indications of environmental impacts, such as discoloration or odors in ambient air.

Soil matrix samples from the hand augered segments of the borings were collect directly from the hand auger bucket into 4-ounce glass jars as a precautionary measure to avoid driving a sampling device into an unknown subsurface utility. Soil matrix samples collected during direct-push drilling were collected in 1-inch-diameter by 4-foot-long acetate sleeves at discrete intervals for field screening and classification purposes, as well as possible chemical analysis. Upon retrieval from the boring, in accordance with EPA Method 5035, soil matrix "subsamples" for VOC analysis were collected in 5-gram Terra Core® devices. Upon collection of the Terra Core® subsamples, the ends of the soil-filled sample sleeves were sealed with plastic end-caps lined with Teflon® foil. The Terra Core® devices containing the subsamples and the sealed acetate sample sleeves were labeled, sealed in freezer bags, and immediately placed on ice in a cooler. Chain-of-custody procedures were followed at all times from sample collection to receipt by the analytical laboratory.

Soil Sample Analysis

The soil matrix samples were hand delivered to the Eurofins laboratory in Garden Grove, California on the day of collection. Eurofins analyzed the soil matrix samples using standard EPA methods for one or more of the following:

- TPH with carbon chain speciation (TPH-cc) using EPA Method 8015(M)
- VOCs, including fuel oxygenates, using EPA Method 8260B
- Title 22 metals, including arsenic and lead, using EPA Method 6010B/7470A
- OCPs using EPA Method 8081A

The analytical results are summarized in Tables 1 through 4 and are presented in full in the Eurofins laboratory report in Attachment 3. The depth-discrete soil sample analyses for each boring are summarized in the table below:

Soil Samples for Analysis					
Boring No.	**Boring Depth** (feet bgs)	**Sample Depths** (feet bgs)			
		TPH-cc (8015B)	**VOCs** (8260B)	**Metals** (6010B/7471A)	**OCPs** (8081A)
SV-1	16	10, 15	2, 5, 10, 15	10, 15	- -
SV-2	16	10, 15	2, 5, 10, 15	10, 15	- -
SV-3	16	10, 15	2, 5, 10, 15	10, 15	- -
SV-4	19	15, 19	5, 10, 15, 19	15, 19	- -
SV-5	26	20, 25	10, 15, 20, 25	20, 25	- -
B-1	5	2, 5	2	2	2
B-2	5	2, 5	2	2	2
B-3	2.5	2	2	2	2
B-4	5	2, 5	2	2	2
B-5	5	2, 5	2	2	2
B-6	5	2, 5	2	2	2
B-7	5	2, 5	2	2	2
B-8	5	2, 5	2	2	2
B-9	2	2	2	- -	- -
B-10	2	2	2	- -	- -
B-11	2	2	2	- -	- -

Equipment Decontamination and Quality Assurance/Quality Control (QA/QC)

Drilling, soil sampling, and related equipment was decontaminated, as appropriate, between borings and sampling attempts. Field equipment likely to come into contact with soil matrix samples was cleaned in a solution of Alconox® and potable water. Cleaned equipment was double rinsed with potable water and given a final deionized or distilled water rinse. Wherever possible, dedicated and/or disposable equipment (e.g., well casings, tubing) was used to minimize the potential for cross-contamination between borings.

SOIL VAPOR PROBE INSTALLATION AND SAMPLING

On April 11 and 12, 2019, Avocet installed soil vapor probes in each of Borings SV-1 through SV-5. On April 16, 2019, Avocet sampled the probes in accordance with current California guidance for active soil vapor investigations (DTSC, et al., July 2015).

Probe Installation

To provide vertical concentration gradient data, Avocet installed nested, depth-discrete soil vapor probes at nominal depths of 5 and 15 feet bgs in each of the five direct-push soil borings (SV-1 through SV-5).

The soil vapor probes consist of a porous, 316-stainless steel tip, with a 50-micron filtration rating, connected to ⅛-inch outside diameter Nylaflow® tubing extending approximately 2 feet above the ground surface. The sintered porous tip is designed to be gas permeable while preventing the intrusion of fine-grained material that could potentially clog the Nylaflow®

tubing. The probe tips were installed at the mid-point of a 12-inch sand pack of clean No. 3 silica sand. The lower probes were isolated from the upper probes by dry granular bentonite hydrated in place with potable water in 6-inch lifts. The annular space above the upper probe was sealed in a similar manner to the underside of the surrounding pavement. Each probe was completed at the surface with a gas-tight valve to prevent degassing and protected underneath a temporary concrete patch on the surface.

In accordance with current regulatory agency guidance (DTSC, et al., July 2015), probes installed in hand-augered borings were allowed a minimum of 48 hours to equilibrate prior to being purged and sampled.

Soil Vapor Sampling

On April 16, 2019, after allowing at least 48 hours for equilibration, Avocet purged and sampled the soil vapor probes. More specifically, Avocet used sampling pumps to purge the probes of three "sample train volumes," in accordance with current regulatory agency guidance (DTSC, et al., July 2015). Soil vapor samples were then collected from each of the depth-discrete probes in 1-liter SUMMA canisters. On completion of sampling, the SUMMA canisters were hand delivered to the Eurofins laboratory in Garden Grove where they were analyzed for VOCs, including fuel oxygenates, using EPA Method TO-15. The results of the soil vapor sample analyses for VOCs are summarized in Table 5 and are presented in full in the Eurofins laboratory report in Attachment 4.

QA/QC measures associated with soil vapor sampling and analysis included the following:

- A shut-in test was conducted on each vapor probe to check for leaks in the aboveground sample train. For the shut-in test, the aboveground sample train was evacuated to at least 100 inches of water, using a syringe, with the block valves on the attached sample canister and at the probe head closed. If a noticeable loss of vacuum had been observed, the sample train would have been reassembled and the test repeated; however, no significant loss of vacuum was observed in any of the probes.

- The use of 1,1-difluoroethane as a leak detection compound (LDC) to verify the integrity of the sample train during sample collection. In brief, the LDC was applied to paper towels wrapped around the probe and the sample train during the sampling process. The LDC was included in the analytical suite as an indicator of the integrity of the probe and the sample train. 1,1-Difluoroethane was reported in three of the ten soil vapor samples at concentrations ranging from 5.8 to 13 micrograms per cubic meter ($\mu g/m^3$). According to regulatory guidance, corrective action is warranted when the concentration of an LDC in a sample exceeds 10 times the median reporting limit for the target analytes. The reported concentrations did not exceed 10 times the reporting limit of 5.4 $\mu g/m^3$ and, thus, no corrective action was warranted or taken.

- One replicate sample was collected as a check for laboratory precision. The replicate sample (SV-5-15R) was collected immediately following the primary soil vapor sample and handled in the same manner as the primary sample. The replicate sample was analyzed for VOCs using EPA Method TO-15. The precision for the target analytes in the replicate sample ranged from 0 to 29.3 relative percent difference (RPD). DTSC guidelines for active soil gas investigations state that when comparing soil gas results from replicate samples, a wider RPD allowance should be given to soil vapor (as compared to other matrix types) because of the inherent variability associated with soil vapor sample collection and analysis. A commonly used precision criterion for VOCs in soil vapor is 50 RPD (DTSC, et al., July 2015). Against this criterion, the soil vapor data are considered sufficiently precise for decision-making purposes.

DATA EVALUATION

This section presents the findings of the Phase II investigation in terms of residual pesticides, arsenic, and lead in near-surface soil; the presence of TPH, VOCs, heavy metals, and pesticides in soil in the vicinity of hazardous materials storage areas and former USTs; and the presence of VOCs in soil vapor in the vicinity of the former USTs. With the exception of arsenic, which was evaluated in terms of background concentrations, the results of the analyses are compared to the Regional Screening Levels (RSLs) developed by EPA for residential and industrial properties (EPA, May 2021) or, where available, the more conservative DTSC-modified Screening Levels (DTSC-SLs; DTSC, June 2020).

Pesticides and Metals in Near-Surface Soil

Ten composite soil matrix samples were analyzed for OCPs using EPA Method 8081A. The results for the OCP analyses are summarized in Table 1 and presented in full in Attachment 1. In brief, however, one of two OCPs were detected in three of the samples, as follows:

OCPs in Near-Surface Soil Samples (µg/kg)		
Sample No.	**4,4'-DDE**	**Dieldrin**
C-1	ND<4.9	ND<4.9
C-2	ND<5.0	ND<5.0
C-3	ND<5.0	**21**
C-4	ND<5.0	**72**
C-5	ND<5.0	ND<5.0
C-6	ND<4.9	ND<4.9
C-7	ND<4.9	ND<4.9
C-8	ND<5.0	ND<5.0
C-9	ND<4.9	ND<4.9
C-10	**8.1**	ND<4.9
EPA RSLs (May 2021)		
Residential	2,000	34
Industrial	9,300	140

Notes: µg/kg = micrograms per kilogram

As shown above, the reported residual OCP concentrations are below the corresponding EPA commercial/industrial RSLs, by orders of magnitude for 4,4'-DDE, although the reported dieldrin concentration in Sample C-4 exceeds the less applicable residential RSL.

Ten discrete soil samples were analyzed for arsenic and lead using EPA Method 6010B. The results for the metals analyses are summarized below and in Table 2 and are presented in full in Attachment 1.

Arsenic and Lead in Near-Surface Soil Samples (mg/kg)		
Sample No.	**Arsenic**	**Lead**
S-2	ND<0.721	**13.8**
S-6	ND<0.728	**4.17**
S-9	ND<0.758	**23.4**
S-13	ND<0.789	**6.12**
S-18	ND<0.750	**9.31**
S-21	ND<0.714	**32.7**
S-25	ND<0.761	**8.9**
S-29	ND<0.761	**15.8**
S-33	ND<0.773	**10.7**
S-37	ND<0.735	**8.7**
Screening Levels		
DTSC-SL (Residential)	0.11	80
DTSC-SL (Industrial)	0.36	320
EPA RSL (Residential)	0.68	400
EPA RSL (Industrial)	3.0	800

Notes: mg/kg = milligrams per kilogram

As shown above, none of the discrete soil samples contained detectable concentrations of arsenic; however, lead was detected in all ten samples, albeit at concentrations well below potentially applicable screening levels. Avocet notes that the reporting limits (RLs) for arsenic were above the DTSC-SLs and marginally above EPA's residential RSL. However, as naturally occurring arsenic concentrations in southern California soils typically exceed EPA RSLs and DTSC-SLs, arsenic is evaluated in the context of accepted background concentrations. The accepted upper background arsenic concentration in soil in southern California is 12 mg/kg (Chernoff, et al., 2008) and DTSC accepts 6 mg/kg of arsenic as a screening level for schools (DTSC, June 6, 2005). Against these screening levels, arsenic is not considered to be of concern at the subject site.

Scheu Steel and Merchant Landscape POL and Pesticide Assessment

Initially, eight borings were advanced to between 2 and 5 feet bgs to assess soil beneath what appear to have been *de minimis* releases of POLs and/or possibly pesticides at the Merchant Landscape and Scheu Steel parcels. Specifically, four borings were advanced at Scheu Steel and four were advanced at Merchant Landscape. Soil matrix samples for possible chemical analysis were collected at 2 and/or 5 feet bgs. As indicated previously, selected soil samples from each boring were analyzed for OCPs, Title 22 metals, TPH-cc, and VOCs (including fuel oxygenates) using EPA Methods 8081A, 6010B/7471A, 8015M, and 5035/8260B, respectively. The results

of the soil matrix samples are summarized in Tables 1 through 4, respectively, are presented in full in Attachment 3, and are discussed below.

Organochlorine Pesticides (OCPs) in Soil

OCPs were detected in two of the eight borings (B-4 and B-7), as summarized below:

OCPs in Scheu Steel and Merchant Landscape Soil Samples (µg/kg)		
Sample No.	**4,4'-DDD**	**4,4'-DDT**
B-4	11	72
B-7	5.2	30
Screening Levels		
DTSC-SL (Residential)	2,300	1,900
DTSC-SL (Industrial)	6,200	7,100
EPA RSL (Residential)	1,900	1,900
EPA RSL (Industrial)	9,600	8,500

As shown above, all of the reported OCP concentrations were orders of magnitude below potentially applicable screening levels.

Title 22 Metals in Soil

The eight soil matrix samples analyzed contained detectable concentrations of one or more Title 22 metals; however, all of the reported concentrations, with the exception of arsenic, were well below residential or industrial screening levels and are considered reflective of background or naturally occurring concentrations (Table 2). As discussed above, arsenic is evaluated in the context of accepted background concentrations, as naturally occurring arsenic concentrations in southern California soils typically exceed EPA RSLs and DTSC-SLs. The maximum reported concentration of arsenic was 1.18 mg/kg in Boring B-4, which is well below the accepted southern California upper background concentration of 12 mg/kg (Chernoff, et al., 2008) and below the 6 mg/kg screening level for schools (DTSC, June 6, 2005). Against these screening levels, arsenic is not considered to be of concern at the subject site.

Total Petroleum Hydrocarbons in Soil

TPH was detected in two of the eight soil samples initially analyzed, specifically at 5 and 86 mg/kg in the 2-foot samples from Borings B-4 and B-8, respectively (Table 3). The TPH in the sample from Boring B-8 was in the oil range, which is consistent with this boring's location in the area where Merchant Landscape conducts oil changes on vehicles and equipment. EPA and DTSC do not specify screening levels for TPH; however, SFBRWQCB has developed risk-based residential and industrial Environmental Screening Levels (ESLs) of 12,000 mg/kg and 180,000 mg/kg, respectively, for TPH in the motor oil range for direct human exposure. The reported detections are well below the residential ESL.

Volatile Organic Compounds in Soil

Benzene was detected in the soil matrix samples from Borings B-5 and B-6 at concentrations of 1.1 and 1 µg/kg, respectively (Table 4), which is well below the residential DTSC-SL of 330 µg/kg. VOCs were not detected in any other borings, with the exception of Boring B-8, as follows:

VOCs in Soil Matrix Sample from Boring B-8 in Merchant Landscape Area (Units are µg/kg)					
Compound	**Concentration**	**EPA RSLs**		**DTSC-SLs**	
		Residential	**Industrial**	**Residential**	**Industrial**
1,2,4-Trimethylbenzene	1,200	300,000	1,800,000	- -	- -
1,3,5-Trimethylbenzene	430	270,000	1,500,000	- -	- -
Naphthalene	6,900	2,000	8,600	2,000	6,500
p-Isopropyltoluene	100	- -	- -	- -	- -
Toluene	100	4,900,000	47,000,000	- -	- -
o-Xylene	160	650,000	2,800,000	- -	- -
m- & *p*-Xylene	260	550,000	2,400,000	- -	- -

Notes: Orange shading indicates commercial/industrial screening level exceeded

As indicated above, a total of seven VOCs were detected in the 2-foot soil matrix sample from Boring B-8 but the concentrations were below residential screening levels, except for naphthalene, the concentration of which marginally exceeded the industrial DTSC-SL of 6,500 µg/kg. Naphthalene is commonly associated with heavier petroleum-based oils, which is consistent with the reported use of POLs in the vicinity of Boring B-8. Based on this elevated detection, Panattoni requested additional soil sampling from three "step-out" borings around Boring B-8.

Merchant Landscape Additional Soil Sampling

Based on the elevated concentration of naphthalene at 2 feet bgs in Boring B-8, Avocet advanced step-out borings at three locations approximately 10 feet to the north, south, and west of Boring B-8 to delineate the impacted soil (Figure 3). Avocet had intended to advance Borings B-9, B-10, and B-11 to 5 feet bgs; however, all three borings met refusal at 2 feet bgs due to the presence of large cobblestones, some greater than 5 inches in diameter. As such, Avocet was only able to collect soil matrix samples at 2 feet bgs in each boring. That said, there are no documented subsurface features in the step-out area, and the impacts related to minor surface releases typically attenuate with depth. The step-out soil samples were analyzed for TPH and VOCs (Tables 3 and 4). In brief, only two VOCs, acetone and benzene, were detected in Boring B-11 at concentrations of 46 and 0.86 µg/kg, respectively. These concentrations are well below potentially applicable screening levels. Naphthalene was not detected in any of the step-out soil samples. TPH in the motor oil range was detected in the soil samples from Borings B-9, B-10, and B-11 at concentrations of 91, 340, and 710 mg/kg, respectively, all of which concentrations are below the SFBRWQCB residential ESL. Absent significant VOC concentrations and detectable naphthalene concentrations in the 2-foot step-out soil samples, it can be reasonably assumed that deeper samples would contain even lower concentrations. As

such, the collection of samples at only 2 feet bgs is considered sufficient to delineate the naphthalene impact encountered in Boring B-8. Based on the step-out soil sampling, the naphthalene impact encountered in Boring B-8 is believed to be highly localized and likely does not extend beyond the visible staining at the ground surface.

Former Patrini Shoes and Scheu Steel UST Soil Assessment

A total of five direct-push borings (SV-1 through SV-5) were advanced to depths between 16 and 26 feet bgs in the vicinity of the former USTs to assess their impact, if any, on the subsurface. Borings SV-1 through SV-3 were located in the vicinity of the former Patrini Shoes USTs, and Borings SV-4 and SV-5 were located in the vicinity of the former gasoline and diesel USTs, respectively (Figure 2). Selected soil matrix samples were collected and analyzed for Title 22 metals, TPH-cc, and/or VOCs (including fuel oxygenates) using EPA Methods 6010B/7471A, 8015M, and 5035/8260B, respectively. The results of the soil matrix samples are presented in full in Attachment 3, summarized in Tables 2, 3, and 4, respectively, and discussed below.

Title 22 Metals in Soil

The ten soil matrix samples analyzed contained detectable concentrations of one or more Title 22 metals; however, all of the reported concentrations, with the exception of arsenic, were well below residential or industrial screening levels and are considered reflective of background or naturally occurring concentrations. As with the other soil samples collected at the site, it is noted that naturally occurring arsenic concentrations in southern California soils typically exceed EPA RSLs and DTSC-SLs, and that arsenic is evaluated in the context of accepted background concentrations. The only reported concentration of arsenic above the RL was 0.763 mg/kg in the 20-foot sample from Boring SV-5, which is well below the accepted upper background concentration of 12 mg/kg in soil in southern California (Chernoff, et al., 2008) and the 6 mg/kg screening level for schools (DTSC, June 6, 2005). Against these screening levels, arsenic is not considered to be of concern.

TPH in Soil

The 10-foot soil sample from Boring SV-2 contained 37 mg/kg of oil range TPH, which is well below the SFBRWQCB residential ESL. None of the other soil matrix samples contained detectable concentrations of TPH.

VOCs in Soil

Benzene and carbon disulfide were the only VOCs detected in the soil matrix samples collected from the direct-push borings. Benzene was detected in the 10-foot soil sample collected from Boring SV-2 at a concentration of 0.82 µg/kg, well below residential and industrial DTSC-SLs. Carbon disulfide was detected in four soil samples, as follows:

Carbon Disulfide in Soil Samples (µg/kg)		
Sample No.	**Depth** (feet bgs)	**Concentration**
SV-1	2	24
SV-2	2	25
SV-2	10	51
SV-3	2	7.9
Screening Levels		
DTSC-SL (Residential)		--
DTSC-SL (Industrial)		--
EPA RSL (Residential)		770,000
EPA RSL (Industrial)		3,500,000

As indicated in the table above, the reported carbon disulfide concentrations were extremely low and orders of magnitude below potentially applicable screening levels.

VOCs in Soil Vapor

The ten soil vapor samples from the nested probes installed in Borings SV-1 through SV-5 were analyzed for VOCs, including fuel oxygenates, using EPA Method TO-15. The results of the analyses are presented in full in the Eurofins analytical report in Attachment 3 and summarized in Table 5. Boring logs for the direct-push borings showing the construction details for the soil vapor probes are included in Attachment 2. Consistent with the extremely low RLs achievable using EPA Method TO-15, and excluding the LDC, the ten soil vapor samples contained detectable concentrations of two or more of eight VOCs, as follows:

VOCs in Soil Vapor Samples (Units are µg/m^3)		
Compound	**Detection Frequency**	**Concentration Range**
2-Butanone (MEK)	2/10	5.3 & 5.4
Acetone	9/10	7.8 – 26
Carbon Disulfide	1/10	24
Dichlorodifluoromethane	4/10	2.7 – 3.3
Ethylbenzene	2/10	2.5 – 3.9
Tetrachloroethylene (PCE)	7/10	4.4 – 13
Toluene	9/10	7.3 – 75
Trichloroethylene (TCE)	4/10	7.5 – 35

Notes: µg/m^3 = micrograms per cubic meter

Avocet notes that because of the extremely low RLs achievable using EPA Method TO-15, it is common to detect this many or more VOCs in soil vapor and, indeed, in ambient air. Avocet further notes that a trace concentration of MEK was detected in only one boring (SV-3) in the vicinity of the former Patrini Shoes USTs, and MIBK was not detected in any of the soil vapor samples collected. Fuel-related VOCs, including ethylbenzene and toluene, were detected in the vapor samples from Borings SV-4 and SV-5, located near the former fuel USTs, albeit at very low concentrations. In addition, both tetrachloroethylene (PCE) and trichloroethylene (TCE)

were detected at low concentrations at multiple locations, including in the vicinity of the former Patrini Shoes USTs and the former Scheu Steel USTs. There are no known sources of PCE or TCE at the subject site, nor are any of the documented regional groundwater plumes located in the vicinity of the subject site.

To assess the impact, if any, of the VOCs in soil vapor on commercial workers in the planned building at the site, Avocet applied "default" attenuation factors to the highest concentration of each VOC in soil vapor, regardless of location, and compared the resulting potential indoor air VOC concentrations to DTSC-SLs (DTSC, June 2020) and EPA RSLs (EPA, May 2021). The DTSC default attenuation factor for new commercial buildings is 0.0005 (DTSC, October 2011); however, California recently adopted the more conservative EPA default attenuation factor of 0.03 (EPA, June 2015). Accordingly, Avocet used both the DTSC and EPA attenuation factors in its evaluation, as follows:

Preliminary Soil Vapor Intrusion Assessment (units are µg/m^3)					
Compound	**Max. Soil Vapor Conc.**	**Estimated Indoor Air Conc.**		**Industrial DTSC-SL**	**EPA Industrial RSL**
		DTSC (0.0005)	**EPA** (0.03)		
2-Butanone (MEK)	5.4E+00	2.70E-03	1.62E-01	- -	2.2E+04
Acetone	2.6E+01	1.30E-02	7.80E-01	- -	1.4E+05
Carbon Disulfide	2.4E+01	1.20E-02	7.20E-01	- -	3.1E+03
Dichlorodifluoromethane	3.3E+00	1.65E-03	9.90E-02	- -	4.4E+02
Ethylbenzene	3.9E+00	1.95E-03	1.17E-01	- -	4.9E+00
Tetrachloroethylene (PCE)	1.3E+01	6.50E-03	3.90E-01	2.0E+00	4.7E+01
Toluene	7.5E+01	3.75E-02	2.25E+00	1.3E+03	2.2E+04
Trichloroethylene (TCE)	3.5E+01	1.75E-02	1.05E+00	- -	3.0E+00

As indicated above, the potential VOC concentrations in indoor air calculated using the DTSC attenuation factor of 0.0005 are all lower, often by several orders of magnitude, than the corresponding DTSC-SLs. Similarly, the potential VOC concentrations in indoor air using the more conservative EPA attenuation factor of 0.03 are all lower than the corresponding EPA RSLs and DTSC-SLs.

SUMMARY AND CONCLUSIONS

Avocet has investigated the possible presence of residual pesticides, including arsenic and lead, in near-surface soils at the site in accordance with DTSC guidance. Although trace concentrations of a few OCPs were detected, the concentrations are well below applicable screening levels. Arsenic was not detected in near-surface soil, and the reported lead concentrations were below potentially applicable screening levels. No further investigation or mitigative measures related to pesticides, arsenic, or lead in near-surface soil are warranted or recommended.

Avocet has investigated potential impacts to shallow soil in the vicinity of the Merchant Landscape and Scheu Steel buildings as a result of the storage and use of POLs and pesticides. In brief, oil stains visible at the ground surface appeared to be *de minimis;* however, one soil sample collected from Boring B-8, located immediately outside of the Merchant Landscape building (Figure 2), contained a concentration of naphthalene in soil that marginally exceeded the industrial DTSC-SL. As a result of this detection, Avocet conducted step-out soil sampling to the north, west, and south of Boring B-8 (Figure 3); however, naphthalene was not detected in any of the step-out samples. Based on the analytical results from the step-out borings, the surficial soil impacts visible at the ground surface appear to be highly localized around Boring B-8 and likely do not extend beyond the visible staining. Moreover, the 5-foot soil sample from Boring B-8, although not analyzed for VOCs, did not contain TPH, indicating that impacted soil is also limited vertically within 2 or 3 feet of the ground surface. Based on the investigation results, Avocet recommends that the soil in the immediate vicinity of Boring B-8 be segregated during site redevelopment activities, sampled for profiling purposes, and transported offsite to an appropriate disposal facility.

Considering that soil vapor assessment was not conducted during the removal of the former Patrini Shoes and Scheu Steel USTs back in the early 1990s, Avocet collected soil vapor samples from the immediate vicinity of the former UST locations. MEK, which was documented as the contents of six of the seven 2,000-gallon USTs operated by Patrini Shoes, was detected in only one soil vapor sample collected from the vicinity of the former Patrini Shoes USTs (SV-3). The trace concentrations of MEK detected indicate that residual impacts associated with the former USTs are minor, and even when taking into account the conservative attenuation factor of 0.03 developed by EPA, the calculated potential indoor air concentrations are considered negligible. Trace concentrations of the fuel-related VOCs toluene and ethylbenzene were detected in the soil vapor samples from SV-4 and SV-5, located near the former Scheu Steel gasoline and diesel USTs; however, the calculated potential indoor air concentrations for these compounds were also well below potentially applicable screening levels. In addition to the above, PCE and TCE were detected in multiple soil vapor samples at maximum concentrations of 13 and 35 $\mu g/m^3$, respectively. There is no obvious source of these chlorinated VOCs, as there is no available documentation of their use at the subject site and the subject site does not appear to overlie or be near any of the regional chlorinated solvent groundwater plumes in the Chino Subbasin. Regardless, the conservative preliminary vapor intrusion assessments indicate that the potential concentrations of PCE and TCE in indoor air are below industrial indoor air screening levels. As such, Avocet does not recommend further investigation for VOCs in soil vapor at the subject site.

As always, Avocet Environmental, Inc. appreciates the opportunity to be of service to Panattoni Development Company, Inc. If you have any questions about this report or require additional information, please do not hesitate to contact the undersigned at (949) 296-0977 Ext. 102 or at pmiller@avocetenv.com.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Philip Miller, P.E.
Principal

Signed and sealed May 26, 2021

PM:sh
Attachments

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Tables

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Table 1
Pesticides in Soil Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Beta-BHC	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
B1	2	04/11/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B2	2	04/11/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B3	2	04/11/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B4	2	04/12/19	**11**	<5	**72**	<5	<9.9	<5	<50	<9.9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<9.9	<5	<99
B5	2	04/12/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B6	2	04/12/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B7	2	04/12/19	**5.2**	<5	**30**	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B8	2	04/12/19	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<49	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<98
C-1	- -	04/12/19	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<49	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<98
C-2	- -	04/12/19	<5	<5	<5	<5	<9.9	<5	<50	<9.9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<9.9	<5	<99
C-3	- -	04/12/19	<5	<5	<5	<5	<10	<5	<50	<10	**21**	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
C-4	- -	04/12/19	<5	<5	<5	<5	<9.9	<5	<50	<9.9	**72**	<5	<5	<5	<5	<5	<5	<5	<5	<9.9	<5	<99
C-5	- -	04/12/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
C-6	- -	04/12/19	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<49	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<98
C-7	- -	04/12/19	<4.9	<4.9	<4.9	<4.9	<9.9	<4.9	<49	<9.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.9	<4.9	<99
C-8	- -	04/12/19	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
C-9	- -	04/12/19	<4.9	<4.9	<4.9	<4.9	<9.9	<4.9	<49	<9.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.9	<4.9	<99
C-10	- -	04/12/19	<4.9	**8.1**	<4.9	<4.9	<9.8	<4.9	<49	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<98
Screening Criteria																						
DTSC-SLs (Residential)			2,300	2,000	1,900	39	86	300	- -	- -	34	- -	- -	- -	- -	- -	- -	570	130	70	320,000	450
DTSC-SLs (Industrial)			6,200	9,300	7,100	180	240	820	- -	- -	93	- -	- -	- -	- -	- -	- -	2,000	630	330	2,600,000	1,200
RSLs (Residential)			1,900	2,000	1,900	39	86	300	- -	- -	34	- -	- -	380,000	19,000	- -	- -	570	130	70	320,000	490
RSLs (Industrial)			9,600	9,300	8,500	180	360	1,300	- -	- -	140	- -	- -	3,200,000	250,000	- -	- -	2,500	630	330	4,100,000	2,100

Notes:
Samples analyzed using Method EPA 8081A
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes not available
DTSC-SLs = DTSC-modified Screening Levels after HERO HHRA Note Number 3, June 2020
RSLs = Regional Screening Levels after EPA, May 2021

AVOCET ENVIRONMENTAL, INC.

Table 2
Metals in Soil Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B1	2	04/11/19	<0.765	<0.765	**157**	**0.557**	**0.68**	**18.4**	**9.72**	**11.4**	<0.51	<0.0794	<0.255	**10.3**	<0.765	<0.255	<0.765	**40.2**	**48.7**
B2	2	04/11/19	<0.761	<0.761	**161**	**0.591**	**0.768**	**19.8**	**10.8**	**12.1**	<0.508	<0.0794	<0.254	**11.1**	<0.761	<0.254	<0.761	**43.4**	**49.9**
B3	2	04/11/19	<0.754	<0.754	**140**	**0.569**	**0.644**	**17.7**	**9.28**	**11.2**	<0.503	<0.0862	<0.251	**9.59**	<0.754	<0.251	<0.754	**40.5**	**44.6**
B4	2	04/12/19	<0.781	**1.18**	**89**	**0.59**	**1.79**	**14.6**	**6.89**	**15.2**	**42.6**	<0.0806	**0.47**	**11.4**	<0.781	<0.26	<0.781	**30.7**	**367**
B5	2	04/12/19	<0.714	<0.714	**90.8**	**0.462**	<0.476	**10.7**	**5.96**	**7.41**	**0.621**	<0.0806	<0.238	**6.29**	<0.714	<0.238	<0.714	**26.2**	**36.8**
B6	2	04/12/19	<0.746	<0.746	**106**	**0.54**	<0.498	**13**	**7.17**	**9.08**	<0.498	<0.0794	<0.249	**7.6**	<0.746	<0.249	<0.746	**31.7**	**43.3**
B7	2	04/12/19	<0.746	<0.746	**74.4**	**0.405**	<0.498	**9.71**	**6.02**	**7.13**	**1.75**	<0.0833	<0.249	**5.99**	<0.746	<0.249	<0.746	**23.3**	**32**
B8	2	04/12/19	<0.758	<0.758	**110**	**0.521**	**0.66**	**17.3**	**7.73**	**16**	**2.97**	<0.0862	**0.309**	**8.96**	<0.758	<0.253	<0.758	**36.8**	**50.2**
S2	- -	04/12/19	- -	<0.721	- -	- -	- -	- -	- -	- -	**13.8**	- -	- -	- -	- -	- -	- -	- -	- -
S6	- -	04/12/19	- -	<0.728	- -	- -	- -	- -	- -	- -	**4.17**	- -	- -	- -	- -	- -	- -	- -	- -
S9	- -	04/12/19	- -	<0.758	- -	- -	- -	- -	- -	- -	**23.4**	- -	- -	- -	- -	- -	- -	- -	- -
S13	- -	04/12/19	- -	<0.789	- -	- -	- -	- -	- -	- -	**6.12**	- -	- -	- -	- -	- -	- -	- -	- -
S18	- -	04/12/19	- -	<0.75	- -	- -	- -	- -	- -	- -	**9.31**	- -	- -	- -	- -	- -	- -	- -	- -
S21	- -	04/12/19	- -	<0.714	- -	- -	- -	- -	- -	- -	**32.7**	- -	- -	- -	- -	- -	- -	- -	- -
S25	- -	04/12/19	- -	<0.761	- -	- -	- -	- -	- -	- -	**8.9**	- -	- -	- -	- -	- -	- -	- -	- -
S29	- -	04/12/19	- -	<0.761	- -	- -	- -	- -	- -	- -	**15.8**	- -	- -	- -	- -	- -	- -	- -	- -
S33	- -	04/12/19	- -	<0.773	- -	- -	- -	- -	- -	- -	**10.7**	- -	- -	- -	- -	- -	- -	- -	- -
S37	- -	04/12/19	- -	<0.735	- -	- -	- -	- -	- -	- -	**8.7**	- -	- -	- -	- -	- -	- -	- -	- -
SV-1	10	04/11/19	<0.765	<0.765	**74**	**0.279**	<0.51	**7.96**	**4.82**	**4.64**	<0.51	<0.0862	<0.255	**5.74**	<0.765	<0.255	<0.765	**22.1**	**27.5**
	15	04/11/19	<0.773	<0.773	**70.7**	**0.281**	<0.515	**23.7**	**5.01**	**11.2**	<0.515	<0.0847	**4.05**	**7.04**	<0.773	<0.258	<0.773	**20.6**	**34**
SV-2	10	04/11/19	<0.773	<0.773	**89.2**	**0.419**	**0.597**	**18.2**	**6.65**	**11.3**	<0.515	<0.082	**0.642**	**8.48**	<0.773	<0.258	<0.773	**30**	**33.9**
	15	04/11/19	<0.746	<0.746	**74.9**	**0.31**	<0.498	**8.36**	**5.26**	**7.61**	<0.498	<0.0862	<0.249	**6.31**	<0.746	<0.249	<0.746	**21.2**	**29**
SV-3	10	04/11/19	<0.743	<0.743	**38.8**	<0.248	<0.495	**8.66**	**3.82**	**5.35**	<0.495	<0.0806	**1.69**	**3.5**	<0.743	<0.248	<0.743	**14.7**	**22.6**
	15	04/11/19	<0.746	<0.746	**59.5**	**0.308**	<0.498	**13.1**	**5.08**	**9.91**	<0.498	<0.0794	**1.39**	**7.09**	<0.746	<0.249	<0.746	**20.4**	**32**
SV-4	15	04/12/19	<0.758	<0.758	**69.4**	**0.36**	<0.505	**20.7**	**6.59**	**6.87**	<0.505	<0.0877	<0.253	**7.57**	<0.758	<0.253	<0.758	**30**	**30.2**
	19	04/12/19	<0.75	<0.75	**156**	**0.366**	<0.5	**7.92**	**5.58**	**3.15**	<0.5	<0.0847	<0.25	**5.05**	<0.75	<0.25	<0.75	**25.2**	**31.9**
SV-5	20	04/11/19	<0.732	**0.763**	**187**	**0.852**	**0.628**	**14.3**	**10.5**	**7.33**	<0.488	<0.0877	<0.244	**8.87**	<0.732	<0.244	<0.732	**49.1**	**44.5**
	25	04/11/19	<0.721	<0.721	**172**	**0.899**	**0.881**	**19.9**	**13.8**	**12.3**	<0.481	<0.0806	<0.24	**11**	<0.721	<0.24	<0.721	**58.7**	**56**
Screening Criteria																			
DTSC-SLs (Residential)			- -	0.11	- -	1,600	910	- -	- -	- -	80	1	- -	15,000	- -	- -	- -	- -	- -
DTSC-SLs (Industrial)			- -	0.36	- -	6,900	4,000	- -	- -	- -	320	4.4	- -	64,000	- -	- -	- -	- -	- -
RSLs (Residential)			31	0.68	15,000	160	71	- -	23	3,100	400	11	390	1,500	390	390	0.78	390	23,000
RSLs (Industrial)			470	3	220,000	2,300	980	- -	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000

Notes:
Samples analyzed using Methods 6010B and 7471A (Mercury)
Units are milligrams per kilogram (mg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes not available
DTSC-SLs = DTSC-modified Screening Levels after HERO HHRA Note Number 3, June 2020
RSLs = Regional Screening Levels after EPA, May 2021

AVOCET ENVIRONMENTAL, INC.

Table 3
TPH in Soil Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	C_6	C_7	C_8	C_9-C_{10}	C_{11}-C_{12}	C_{13}-C_{14}	C_{15}-C_{16}	C_{17}-C_{18}	C_{19}-C_{20}	C_{21}-C_{22}	C_{23}-C_{24}	C_{25}-C_{28}	C_{29}-C_{32}	C_{33}-C_{36}	C_{37}-C_{40}	C_{41}-C_{44}	C_6-C_{44} Total
B1	2	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	5	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B2	2	04/11/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	5	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3	2	04/11/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
B4	2	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**5**
	5	04/12/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B5	2	04/12/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	5	04/12/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B6	2	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	5	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
B7	2	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	5	04/12/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B8	2	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**20**	**21**	**17**	**12**	**8.9**	**86**
	5	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
B9	2	04/30/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**17**	**28**	**22**	**11**	<5	**91**
B10	2	04/30/19	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**61**	**120**	**87**	**45**	<10	**340**
B11	2	04/30/19	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**120**	**240**	**190**	**96**	<25	**710**
SV-1	10	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	15	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SV-2	10	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**6.6**	**11**	**8.4**	<5	<5	**37**
	15	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SV-3	10	04/11/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	15	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SV-4	15	04/12/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	19	04/12/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SV-5	20	04/11/19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	25	04/11/19	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9

Notes:
Samples analyzed using EPA Method 8015M
Units are milligrams per kilogram (mg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration

AVOCET ENVIRONMENTAL, INC.

Table 4
VOCs in Soil Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene
B1	2	04/11/19	<0.66	<0.66	<1.3	<6.6	<0.66	<0.66	<0.66	<1.3	<1.3	<1.3	<1.3	<1.3	<3.3	<0.66	<0.66	<0.66	<0.66	<1.3
B2	2	04/11/19	<0.56	<0.56	<1.1	<5.6	<0.56	<0.56	<0.56	<1.1	<1.1	<1.1	<1.1	<1.1	<2.8	<0.56	<0.56	<0.56	<0.56	<1.1
B3	2	04/11/19	<0.5	<0.5	<1	<5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2.5	<0.5	<0.5	<0.5	<0.5	<1
B4	2	04/12/19	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.89	<0.89	<0.89	<0.89	<1.8
B5	2	04/12/19	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<0.84	<1.7
B6	2	04/12/19	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.83	<0.83	<0.83	<0.83	<1.7
B7	2	04/12/19	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.85	<0.85	<0.85	<0.85	<1.7
B8	2	04/12/19	<61	<61	<120	<610	<61	<61	<61	<120	<120	<120	<120	**1,200**	<300	<61	<61	<61	<61	**430**
B9	2	04/30/19	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.87	<0.87	<0.87	<0.87	<1.7
B10	2	04/30/19	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<4.0	<0.79	<0.79	<0.79	<0.79	<1.6
B11	2	04/30/19	<0.78	<0.78	<1.6	<7.8	<0.78	<0.78	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<3.9	<0.78	<0.78	<0.78	<0.78	<1.6
SV-1	2	04/11/19	<0.74	<0.74	<1.5	<7.4	<0.74	<0.74	<0.74	<1.5	<1.5	<1.5	<1.5	<1.5	<3.7	<0.74	<0.74	<0.74	<0.74	<1.5
	5	04/11/19	<0.73	<0.73	<1.5	<7.3	<0.73	<0.73	<0.73	<1.5	<1.5	<1.5	<1.5	<1.5	<3.7	<0.73	<0.73	<0.73	<0.73	<1.5
	10	04/11/19	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<4.1	<0.82	<0.82	<0.82	<0.82	<1.6
	15	04/11/19	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<3.9	<0.79	<0.79	<0.79	<0.79	<1.6
SV-2	2	04/11/19	<0.73	<0.73	<1.5	<7.3	<0.73	<0.73	<0.73	<1.5	<1.5	<1.5	<1.5	<1.5	<3.7	<0.73	<0.73	<0.73	<0.73	<1.5
	5	04/11/19	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<0.84	<1.7
	10	04/11/19	<0.71	<0.71	<1.4	<7.1	<0.71	<0.71	<0.71	<1.4	<1.4	<1.4	<1.4	<1.4	<3.6	<0.71	<0.71	<0.71	<0.71	<1.4
	15	04/11/19	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.83	<0.83	<0.83	<0.83	<1.7
SV-3	2	04/11/19	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<3.8	<0.75	<0.75	<0.75	<0.75	<1.5
	5	04/11/19	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<3.9	<0.79	<0.79	<0.79	<0.79	<1.6
	10	04/11/19	<0.81	<0.81	<1.6	<8.1	<0.81	<0.81	<0.81	<1.6	<1.6	<1.6	<1.6	<1.6	<4	<0.81	<0.81	<0.81	<0.81	<1.6
	15	04/11/19	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<3.9	<0.77	<0.77	<0.77	<0.77	<1.5
SV-4	5	04/12/19	<0.8	<0.8	<1.6	<8	<0.8	<0.8	<0.8	<1.6	<1.6	<1.6	<1.6	<1.6	<4	<0.8	<0.8	<0.8	<0.8	<1.6
	10	04/12/19	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<0.84	<1.7
	15	04/12/19	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<0.84	<1.7
	19	04/12/19	<0.78	<0.78	<1.6	<7.8	<0.78	<0.78	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<3.9	<0.78	<0.78	<0.78	<0.78	<1.6
SV-5	10	04/11/19	<0.71	<0.71	<1.4	<7.1	<0.71	<0.71	<0.71	<1.4	<1.4	<1.4	<1.4	<1.4	<3.6	<0.71	<0.71	<0.71	<0.71	<1.4
	15	04/11/19	<0.78	<0.78	<1.6	<7.8	<0.78	<0.78	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<3.9	<0.78	<0.78	<0.78	<0.78	<1.6
	20	04/11/19	<0.71	<0.71	<1.4	<7.1	<0.71	<0.71	<0.71	<1.4	<1.4	<1.4	<1.4	<1.4	<3.5	<0.71	<0.71	<0.71	<0.71	<1.4
	25	04/11/19	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<3.9	<0.77	<0.77	<0.77	<0.77	<1.5
Screening Criteria																				
DTSC-SLs (Residential)			2,000	1,700,000	600	- -	- -	3,600	83,000	- -	40,000	1.5	7,800	- -	4.3	36	- -	- -	- -	- -
DTSC-SLs (Industrial)			8,800	7,200,000	2,700	- -	- -	16,000	350,000	- -	300,000	21	35,000	- -	57	160	- -	- -	- -	- -
RSLs (Residential)			2,000	8,100,000	600	6,700,000	1,100	3,600	230,000	- -	63,000	5.1	24,000	300,000	5.3	36	1,800,000	460	2,500	270,000
RSLs (Industrial)			8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	- -	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000

Notes:
Samples analyzed using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
-- Denotes not available
DTSC-SLs = DTSC-modified Screening Levels after HERO HHRA Note Number 3, June 2020
RSLs = Regional Screening Levels after EPA, May 2021

AVOCET ENVIRONMENTAL, INC.

Table 4
VOCs in Soil Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	c-1,2-Dichloroethene	c-1,3-Dichloropropene
B1	2	04/11/19	<0.66	<0.66	<0.66	<3.3	<13	<0.66	<13	<0.66	<13	<33	<0.66	<0.66	<1.3	<0.66	<3.3	<13	<0.66	<0.66
B2	2	04/11/19	<0.56	<0.56	<0.56	<2.8	<11	<0.56	<11	<0.56	<11	<28	<0.56	<0.56	<1.1	<0.56	<2.8	<11	<0.56	<0.56
B3	2	04/11/19	<0.5	<0.5	<0.5	<2.5	<10	<0.5	<10	<0.5	<10	<25	<0.5	<0.5	<1	<0.5	<2.5	<10	<0.5	<0.5
B4	2	04/12/19	<0.89	<0.89	<0.89	<4.4	<18	<0.89	<18	<0.89	<18	<44	<0.89	<0.89	<1.8	<0.89	<4.4	<18	<0.89	<0.89
B5	2	04/12/19	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<17	<0.84	<17	<42	**1.1**	<0.84	<1.7	<0.84	<4.2	<17	<0.84	<0.84
B6	2	04/12/19	<0.83	<0.83	<0.83	<4.2	<17	<0.83	<17	<0.83	<17	<42	**1**	<0.83	<1.7	<0.83	<4.2	<17	<0.83	<0.83
B7	2	04/12/19	<0.85	<0.85	<0.85	<4.3	<17	<0.85	<17	<0.85	<17	<43	<0.85	<0.85	<1.7	<0.85	<4.3	<17	<0.85	<0.85
B8	2	04/12/19	<61	<61	<61	<300	<1,200	<61	<1,200	<61	<1,200	<3,000	<61	<61	<120	<61	<300	<1,200	<61	<61
B9	2	04/30/19	<0.87	<0.87	<0.87	<4.3	<17	<0.87	<17	<0.87	<17	<43	<1	<0.87	<1.7	<0.87	<4.3	<17	<0.87	<0.87
B10	2	04/30/19	<0.79	<0.79	<0.79	<4.0	<16	<0.79	<16	<0.79	<16	<40	<0.79	<0.79	<1.6	<0.79	<4.0	<16	<0.79	<0.79
B11	2	04/30/19	<0.78	<0.78	<0.78	<3.9	<16	<0.78	<16	<0.78	<16	**46**	**0.86**	<0.78	<1.6	<0.78	<3.9	<16	<0.78	<0.78
SV-1	2	04/11/19	<0.74	<0.74	<0.74	<3.7	<15	<0.74	<15	<0.74	<15	<37	<0.74	<0.74	<1.5	<0.74	<3.7	<15	<0.74	<0.74
	5	04/11/19	<0.73	<0.73	<0.73	<3.7	<15	<0.73	<15	<0.73	<15	<37	<0.73	<0.73	<1.5	<0.73	<3.7	<15	<0.73	<0.73
	10	04/11/19	<0.82	<0.82	<0.82	<4.1	<16	<0.82	<16	<0.82	<16	<41	<0.82	<0.82	<1.6	<0.82	<4.1	<16	<0.82	<0.82
	15	04/11/19	<0.79	<0.79	<0.79	<3.9	<16	<0.79	<16	<0.79	<16	<39	<0.79	<0.79	<1.6	<0.79	<3.9	<16	<0.79	<0.79
SV-2	2	04/11/19	<0.73	<0.73	<0.73	<3.7	<15	<0.73	<15	<0.73	<15	<37	<0.73	<0.73	<1.5	<0.73	<3.7	<15	<0.73	<0.73
	5	04/11/19	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<17	<0.84	<17	<42	<0.84	<0.84	<1.7	<0.84	<4.2	<17	<0.84	<0.84
	10	04/11/19	<0.71	<0.71	<0.71	<3.6	<14	<0.71	<14	<0.71	<14	<36	**0.82**	<0.71	<1.4	<0.71	<3.6	<14	<0.71	<0.71
	15	04/11/19	<0.83	<0.83	<0.83	<4.2	<17	<0.83	<17	<0.83	<17	<42	<0.83	<0.83	<1.7	<0.83	<4.2	<17	<0.83	<0.83
SV-3	2	04/11/19	<0.75	<0.75	<0.75	<3.8	<15	<0.75	<15	<0.75	<15	<38	<0.75	<0.75	<1.5	<0.75	<3.8	<15	<0.75	<0.75
	5	04/11/19	<0.79	<0.79	<0.79	<3.9	<16	<0.79	<16	<0.79	<16	<39	<0.79	<0.79	<1.6	<0.79	<3.9	<16	<0.79	<0.79
	10	04/11/19	<0.81	<0.81	<0.81	<4	<16	<0.81	<16	<0.81	<16	<40	<0.81	<0.81	<1.6	<0.81	<4	<16	<0.81	<0.81
	15	04/11/19	<0.77	<0.77	<0.77	<3.9	<15	<0.77	<15	<0.77	<15	<39	<0.77	<0.77	<1.5	<0.77	<3.9	<15	<0.77	<0.77
SV-4	5	04/12/19	<0.8	<0.8	<0.8	<4	<16	<0.8	<16	<0.8	<16	<40	<0.8	<0.8	<1.6	<0.8	<4	<16	<0.8	<0.8
	10	04/12/19	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<17	<0.84	<17	<42	<0.84	<0.84	<1.7	<0.84	<4.2	<17	<0.84	<0.84
	15	04/12/19	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<17	<0.84	<17	<42	<0.84	<0.84	<1.7	<0.84	<4.2	<17	<0.84	<0.84
	19	04/12/19	<0.78	<0.78	<0.78	<3.9	<16	<0.78	<16	<0.78	<16	<39	<0.78	<0.78	<1.6	<0.78	<3.9	<16	<0.78	<0.78
SV-5	10	04/11/19	<0.71	<0.71	<0.71	<3.6	<14	<0.71	<14	<0.71	<14	<36	<0.71	<0.71	<1.4	<0.71	<3.6	<14	<0.71	<0.71
	15	04/11/19	<0.78	<0.78	<0.78	<3.9	<16	<0.78	<16	<0.78	<16	<39	<0.78	<0.78	<1.6	<0.78	<3.9	<16	<0.78	<0.78
	20	04/11/19	<0.71	<0.71	<0.71	<3.5	<14	<0.71	<14	<0.71	<14	<35	<0.71	<0.71	<1.4	<0.71	<3.5	<14	<0.71	<0.71
	25	04/11/19	<0.77	<0.77	<0.77	<3.9	<15	<0.77	<15	<0.77	<15	<39	<0.77	<0.77	<1.5	<0.77	<3.9	<15	<0.77	<0.77
Screening Criteria																				
DTSC-SLs (Residential)			- -	410,000	- -	- -	- -	470,000	- -	440,000	- -	- -	330	- -	- -	290	19,000	- -	18,000	- -
DTSC-SLs (Industrial)			- -	2,200,000	- -	- -	- -	2,500,000	- -	2,300,000	- -	- -	1,400	- -	- -	1,300	86,000	- -	84,000	- -
RSLs (Residential)			- -	1,600,000	2,600	- -	27,000,000	1,600,000	200,000	1,600,000	33,000,000	61,000,000	1,200	290,000	150,000	290	19,000	6,800	160,000	- -
RSLs (Industrial)			- -	23,000,000	11,000	- -	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	670,000,000	5,100	1,800,000	630,000	1,300	86,000	30,000	2,300,000	- -

Notes:
Samples analyzed using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes not available
DTSC-SLs = DTSC-modified Screening Levels after HERO HHRA Note Number 3, June 2020
RSLs = Regional Screening Levels after EPA, May 2021

AVOCET ENVIRONMENTAL, INC.

Object ID	Sample Depth (feet bgs)	Sample Date	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-Butyl Ether (ETBE)	Isopropylbenzene	Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene
B1	2	04/11/19	<6.6	<0.66	<0.66	<1.3	<0.66	<13	<1.3	<0.66	<1.3	<0.66	<330	<0.66	<0.66	<0.66	<6.6	<1.3	<6.6	<0.66
B2	2	04/11/19	<5.6	<0.56	<0.56	<1.1	<0.56	<11	<1.1	<0.56	<1.1	<0.56	<280	<0.56	<0.56	<0.56	<5.6	<1.1	<5.6	<0.56
B3	2	04/11/19	<5	<0.5	<0.5	<1	<0.5	<10	<1	<0.5	<1	<0.5	<250	<0.5	<0.5	<0.5	<5	<1	<5	<0.5
B4	2	04/12/19	<8.9	<0.89	<0.89	<1.8	<0.89	<18	<1.8	<0.89	<1.8	<0.89	<440	<0.89	<0.89	<0.89	<8.9	<1.8	<8.9	<0.89
B5	2	04/12/19	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<1.7	<8.4	<0.84
B6	2	04/12/19	<8.3	<0.83	<0.83	<1.7	<0.83	<17	<1.7	<0.83	<1.7	<0.83	<420	<0.83	<0.83	<0.83	<8.3	<1.7	<8.3	<0.83
B7	2	04/12/19	<8.5	<0.85	<0.85	<1.7	<0.85	<17	<1.7	<0.85	<1.7	<0.85	<430	<0.85	<0.85	<0.85	<8.5	<1.7	<8.5	<0.85
B8	2	04/12/19	<610	<61	<61	<120	<61	<1,200	<120	<61	<120	<61	<30,000	<61	<61	<61	<610	<120	**6,900**	<61
B9	2	04/30/19	<8.7	<0.87	<0.87	<1.7	<0.87	<17	<1.7	<0.87	<1.7	<0.87	<430	<0.87	<0.87	<0.87	<8.7	<1.7	<8.7	<0.87
B10	2	04/30/19	<7.9	<0.79	<0.79	<1.6	<0.79	<16	<1.6	<0.79	<1.6	<0.79	<400	<0.79	<0.79	<0.79	<7.9	<1.6	<7.9	<0.79
B11	2	04/30/19	<7.8	<0.78	<0.78	<1.6	<0.78	<16	<1.6	<0.78	<1.6	<0.78	<390	<0.78	<0.78	<0.78	<7.8	<1.6	<7.8	<0.78
SV-1	2	04/11/19	**24**	<0.74	<0.74	<1.5	<0.74	<15	<1.5	<0.74	<1.5	<0.74	<370	<0.74	<0.74	<0.74	<7.4	<1.5	<7.4	<0.74
	5	04/11/19	<7.3	<0.73	<0.73	<1.5	<0.73	<15	<1.5	<0.73	<1.5	<0.73	<370	<0.73	<0.73	<0.73	<7.3	<1.5	<7.3	<0.73
	10	04/11/19	<8.2	<0.82	<0.82	<1.6	<0.82	<16	<1.6	<0.82	<1.6	<0.82	<410	<0.82	<0.82	<0.82	<8.2	<1.6	<8.2	<0.82
	15	04/11/19	<7.9	<0.79	<0.79	<1.6	<0.79	<16	<1.6	<0.79	<1.6	<0.79	<390	<0.79	<0.79	<0.79	<7.9	<1.6	<7.9	<0.79
SV-2	2	04/11/19	**25**	<0.73	<0.73	<1.5	<0.73	<15	<1.5	<0.73	<1.5	<0.73	<370	<0.73	<0.73	<0.73	<7.3	<1.5	<7.3	<0.73
	5	04/11/19	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<1.7	<8.4	<0.84
	10	04/11/19	**51**	<0.71	<0.71	<1.4	<0.71	<14	<1.4	<0.71	<1.4	<0.71	<360	<0.71	<0.71	<0.71	<7.1	<1.4	<7.1	<0.71
	15	04/11/19	<8.3	<0.83	<0.83	<1.7	<0.83	<17	<1.7	<0.83	<1.7	<0.83	<420	<0.83	<0.83	<0.83	<8.3	<1.7	<8.3	<0.83
SV-3	2	04/11/19	**7.9**	<0.75	<0.75	<1.5	<0.75	<15	<1.5	<0.75	<1.5	<0.75	<380	<0.75	<0.75	<0.75	<7.5	<1.5	<7.5	<0.75
	5	04/11/19	<7.9	<0.79	<0.79	<1.6	<0.79	<16	<1.6	<0.79	<1.6	<0.79	<390	<0.79	<0.79	<0.79	<7.9	<1.6	<7.9	<0.79
	10	04/11/19	<8.1	<0.81	<0.81	<1.6	<0.81	<16	<1.6	<0.81	<1.6	<0.81	<400	<0.81	<0.81	<0.81	<8.1	<1.6	<8.1	<0.81
	15	04/11/19	<7.7	<0.77	<0.77	<1.5	<0.77	<15	<1.5	<0.77	<1.5	<0.77	<390	<0.77	<0.77	<0.77	<7.7	<1.5	<7.7	<0.77
SV-4	5	04/12/19	<8	<0.8	<0.8	<1.6	<0.8	<16	<1.6	<0.8	<1.6	<0.8	<400	<0.8	<0.8	<0.8	<8	<1.6	<8	<0.8
	10	04/12/19	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<1.7	<8.4	<0.84
	15	04/12/19	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<1.7	<8.4	<0.84
	19	04/12/19	<7.8	<0.78	<0.78	<1.6	<0.78	<16	<1.6	<0.78	<1.6	<0.78	<390	<0.78	<0.78	<0.78	<7.8	<1.6	<7.8	<0.78
SV-5	10	04/11/19	<7.1	<0.71	<0.71	<1.4	<0.71	<14	<1.4	<0.71	<1.4	<0.71	<360	<0.71	<0.71	<0.71	<7.1	<1.4	<7.1	<0.71
	15	04/11/19	<7.8	<0.78	<0.78	<1.6	<0.78	<16	<1.6	<0.78	<1.6	<0.78	<390	<0.78	<0.78	<0.78	<7.8	<1.6	<7.8	<0.78
	20	04/11/19	<7.1	<0.71	<0.71	<1.4	<0.71	<14	<1.4	<0.71	<1.4	<0.71	<350	<0.71	<0.71	<0.71	<7.1	<1.4	<7.1	<0.71
	25	04/11/19	<7.7	<0.77	<0.77	<1.5	<0.77	<15	<1.5	<0.77	<1.5	<0.77	<390	<0.77	<0.77	<0.77	<7.7	<1.5	<7.7	<0.77
Screening Criteria																				
DTSC-SLs (Residential)			- -	650	- -	- -	- -	- -	940	- -	- -	- -	- -	- -	- -	- -	2,200	- -	2,000	2,400,000
DTSC-SLs (Industrial)			- -	2,900	- -	- -	- -	- -	4,100	- -	- -	- -	- -	- -	- -	- -	26,000	- -	6,500	18,000,000
RSLs (Residential)			770,000	650	280,000	14,000,000	320	110,000	8,300	24,000	87,000	2,200,000	- -	5,800	- -	1,900,000	57,000	47,000	2,000	3,900,000
RSLs (Industrial)			3,500,000	2,900	1,300,000	57,000,000	1,400	460,000	39,000	99,000	370,000	9,400,000	- -	25,000	- -	9,900,000	1,000,000	210,000	8,600	58,000,000

Notes:

Samples analyzed using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes not available
DTSC-SLs = DTSC-modified Screening Levels after HERO HHRA Note Number 3, June 2020
RSLs = Regional Screening Levels after EPA, May 2021

AVOCET ENVIRONMENTAL, INC.

Object ID	Sample Depth (feet bgs)	Sample Date	n-Propylbenzene	o-Xylene	p/m-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	t-1,2-Dichloroethene	t-1,3-Dichloropropene	Tert-Amyl-Methyl Ether (TAME)	Tert-Butyl Alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
B1	2	04/11/19	<1.3	<0.66	<1.3	<0.66	<0.66	<0.66	<0.66	<1.3	<0.66	<13	<0.66	<0.66	<0.66	<1.3	<6.6	<6.6	<0.66
B2	2	04/11/19	<1.1	<0.56	<1.1	<0.56	<0.56	<0.56	<0.56	<1.1	<0.56	<11	<0.56	<0.56	<0.56	<1.1	<5.6	<5.6	<0.56
B3	2	04/11/19	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<10	<0.5	<0.5	<0.5	<1	<5	<5	<0.5
B4	2	04/12/19	<1.8	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<18	<0.89	<0.89	<0.89	<1.8	<8.9	<8.9	<0.89
B5	2	04/12/19	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<0.84	<1.7	<8.4	<8.4	<0.84
B6	2	04/12/19	<1.7	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<17	<0.83	<0.83	<0.83	<1.7	<8.3	<8.3	<0.83
B7	2	04/12/19	<1.7	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<17	<0.85	<0.85	<0.85	<1.7	<8.5	<8.5	<0.85
B8	2	04/12/19	<120	**160**	**260**	**100**	<61	<61	<61	<120	<61	<1,200	<61	<61	**100**	<120	<610	<610	<61
B9	2	04/30/19	<1.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<17	<0.87	<0.87	<0.87	<1.7	<8.7	<8.7	<0.87
B10	2	04/30/19	<1.6	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<16	<0.79	<0.79	<0.79	<1.6	<7.9	<7.9	<0.79
B11	2	04/30/19	<1.6	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<16	<0.78	<0.78	<0.78	<1.6	<7.8	<7.8	<0.78
SV-1	2	04/11/19	<1.5	<0.74	<1.5	<0.74	<0.74	<0.74	<0.74	<1.5	<0.74	<15	<0.74	<0.74	<0.74	<1.5	<7.4	<7.4	<0.74
	5	04/11/19	<1.5	<0.73	<1.5	<0.73	<0.73	<0.73	<0.73	<1.5	<0.73	<15	<0.73	<0.73	<0.73	<1.5	<7.3	<7.3	<0.73
	10	04/11/19	<1.6	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<16	<0.82	<0.82	<0.82	<1.6	<8.2	<8.2	<0.82
	15	04/11/19	<1.6	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	**33**	<0.79	<0.79	<0.79	<1.6	<7.9	<7.9	<0.79
SV-2	2	04/11/19	<1.5	<0.73	<1.5	<0.73	<0.73	<0.73	<0.73	<1.5	<0.73	<15	<0.73	<0.73	<0.73	<1.5	<7.3	<7.3	<0.73
	5	04/11/19	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<0.84	<1.7	<8.4	<8.4	<0.84
	10	04/11/19	<1.4	<0.71	<1.4	<0.71	<0.71	<0.71	<0.71	<1.4	<0.71	<14	<0.71	<0.71	<0.71	<1.4	<7.1	<7.1	<0.71
	15	04/11/19	<1.7	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<17	<0.83	<0.83	<0.83	<1.7	<8.3	<8.3	<0.83
SV-3	2	04/11/19	<1.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<15	<0.75	<0.75	<0.75	<1.5	<7.5	<7.5	<0.75
	5	04/11/19	<1.6	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<16	<0.79	<0.79	<0.79	<1.6	<7.9	<7.9	<0.79
	10	04/11/19	<1.6	<0.81	<1.6	<0.81	<0.81	<0.81	<0.81	<1.6	<0.81	<16	<0.81	<0.81	<0.81	<1.6	<8.1	<8.1	<0.81
	15	04/11/19	<1.5	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<15	<0.77	<0.77	<0.77	<1.5	<7.7	<7.7	<0.77
SV-4	5	04/12/19	<1.6	<0.8	<1.6	<0.8	<0.8	<0.8	<0.8	<1.6	<0.8	<16	<0.8	<0.8	<0.8	<1.6	<8	<8	<0.8
	10	04/12/19	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<0.84	<1.7	<8.4	<8.4	<0.84
	15	04/12/19	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<0.84	<1.7	<8.4	<8.4	<0.84
	19	04/12/19	<1.6	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<16	<0.78	<0.78	<0.78	<1.6	<7.8	<7.8	<0.78
SV-5	10	04/11/19	<1.4	<0.71	<1.4	<0.71	<0.71	<0.71	<0.71	<1.4	<0.71	<14	<0.71	<0.71	<0.71	<1.4	<7.1	<7.1	<0.71
	15	04/11/19	<1.6	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<16	<0.78	<0.78	<0.78	<1.6	<7.8	<7.8	<0.78
	20	04/11/19	<1.4	<0.71	<1.4	<0.71	<0.71	<0.71	<0.71	<1.4	<0.71	<14	<0.71	<0.71	<0.71	<1.4	<7.1	<7.1	<0.71
	25	04/11/19	<1.5	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<15	<0.77	<0.77	<0.77	<1.5	<7.7	<7.7	<0.77
Screening Criteria																			
DTSC-SLs (Residential)			- -	- -	- -	- -	2,200,000	5,600,000	130,000	- -	- -	- -	2,200,000	590	1,100,000	- -	1,200,000	- -	8.2
DTSC-SLs (Industrial)			- -	- -	- -	- -	12,000,000	32,000,000	600,000	- -	- -	- -	12,000,000	2,700	5,300,000	- -	5,400,000	- -	150
RSLs (Residential)			3,800,000	650,000	550,000	- -	7,800,000	6,000,000	70,000	- -	- -	- -	7,800,000	24,000	4,900,000	940	23,000,000	910,000	59
RSLs (Industrial)			24,000,000	2,800,000	2,400,000	- -	120,000,000	35,000,000	300,000	- -	- -	- -	120,000,000	100,000	47,000,000	6,000	350,000,000	3,800,000	1,700

Notes:

Samples analyzed using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes not available
DTSC-SLs = DTSC-modified Screening Levels after HERO HHRA Note Number 3, June 2020
RSLs = Regional Screening Levels after EPA, May 2021

AVOCET ENVIRONMENTAL, INC.

Table 5
VOCs in Soil Vapor Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Ethyltoluene
SV-1	5	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	<5.4	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9
	15	04/16/19	<2.8	<7.1	<12	<2.8	<2.1	<2	<5.6	<15	<7.6	<4	<3.1	<2.1	<2.4	<5.1	<3.1	<3.1	<4.6	<6.3	<5.1
SV-2	5	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	**13**	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9
	15	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	**5.8**	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9
SV-3	5	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	**6.5**	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9
	14	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	<5.4	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	**5.4**	<6.1	<4.9
SV-4	5	04/16/19	<5.6	<14	<24	<5.6	<4.2	<4.1	<11	<31	<15	<7.9	<6.2	<4.2	<4.8	<10	<6.2	<6.2	<9.1	<13	<10
	15	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	<5.4	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	**5.3**	<6.1	<4.9
SV-5	5	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	<5.4	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9
	15	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	<5.4	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9
	15*	04/16/19	<2.7	<6.9	<11	<2.7	<2	<2	<5.4	<15	<7.4	<3.8	<3	<2	<2.3	<4.9	<3	<3	<4.4	<6.1	<4.9

Notes:
Samples analyzed using EPA TO-15
Units are micrograms per cubic meter (µg/m3)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated.
Bold type indicates reported at detectable concentration.
*Replicate sample

AVOCET ENVIRONMENTAL, INC.

Table 5
VOCs in Soil Vapor Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	4-Methyl-2-Pentanone	Acetone	Benzene	Benzyl Chloride	Bromodichloromethane	Bromoform	Bromomethane	c-1,2-Dichloroethene	c-1,3-Dichloropropene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Dichlorodifluoromethane	Dichlorotetrafluoroethane	Diisopropyl Ether (DIPE)
SV-1	5	04/16/19	<6.1	**20**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	**2.7**	<14	<8.4
	15	04/16/19	<6.3	**13**	<1.6	<11	<3.5	<5.3	<2	<2	<2.3	<6.4	<3.2	<2.4	<1.4	<2.5	<2.1	<4.4	<2.5	<14	<8.6
SV-2	5	04/16/19	<6.1	**7.8**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	<2.5	<14	<8.4
	15	04/16/19	<6.1	**8.8**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	<2.5	<14	<8.4
SV-3	5	04/16/19	<6.1	**14**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	<2.5	<14	<8.4
	14	04/16/19	<6.1	**25**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	**24**	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	<2.5	<14	<8.4
SV-4	5	04/16/19	<13	<9.8	<3.3	<21	<6.9	<11	<4	<4.1	<4.7	<13	<6.5	<4.7	<2.7	<5	<4.3	<8.8	<5.1	<29	<17
	15	04/16/19	<6.1	**26**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	**3.2**	<14	<8.4
SV-5	5	04/16/19	<6.1	**9.1**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	**3**	<14	<8.4
	15	04/16/19	<6.1	**14**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	**3.3**	<14	<8.4
	15*	04/16/19	<6.1	**5.6**	<1.6	<10	<3.4	<5.2	<1.9	<2	<2.3	<6.2	<3.1	<2.3	<1.3	<2.4	<2.1	<4.3	**3.3**	<14	<8.4

Notes:
Samples analyzed using EPA TO-15
Units are micrograms per cubic meter (µg/m3)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated.
Bold type indicates reported at detectable concentration.
*Replicate sample

AVOCET ENVIRONMENTAL, INC.

Table 5
VOCs in Soil Vapor Samples
SWC 9th Street and Vineyard Avenue
Rancho Cucamonga, California

Object ID	Sample Depth (feet bgs)	Sample Date	Ethylbenzene	Ethyl-t-Butyl Ether (ETBE)	Hexachloro-1,3-Butadiene	Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	o-Xylene	p/m-Xylene	Styrene	t-1,2-Dichloroethene	t-1,3-Dichloropropene	Tert-Amyl-Methyl Ether (TAME)	Tert-Butyl Alcohol (TBA)	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
SV-1	5	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**6.9**	**75**	<2.7	<5.6	<7	<1.3
	15	04/16/19	<2.2	<8.6	<16	<18	<7.4	<27	<8.9	<18	<6.6	<2	<4.7	<8.6	<6.2	<3.5	**64**	<2.8	<5.8	<7.3	<1.3
SV-2	5	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**5.3**	**38**	<2.7	<5.6	<7	<1.3
	15	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**4.4**	**20**	**27**	<5.6	<7	<1.3
SV-3	5	04/16/19	**2.5**	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**7.9**	**26**	<2.7	<5.6	<7	<1.3
	14	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	<3.4	<1.9	**7.5**	<5.6	<7	<1.3
SV-4	5	04/16/19	<4.5	<17	<33	<36	<15	<54	<18	<36	<13	<4.1	<9.3	<17	<12	<7	**8.4**	<5.5	<12	<15	<2.6
	15	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**11**	**12**	**10**	<5.6	<7	<1.3
SV-5	5	04/16/19	**3.9**	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**6.1**	**16**	<2.7	<5.6	<7	<1.3
	15	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	<3.4	<1.9	**35**	<5.6	<7	<1.3
	15*	04/16/19	<2.2	<8.4	<16	<17	<7.2	<26	<8.7	<17	<6.4	<2	<4.5	<8.4	<6.1	**13**	**7.3**	**13**	<5.6	<7	<1.3

Notes:
Samples analyzed using EPA TO-15
Units are micrograms per cubic meter (µg/m3)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated.
Bold type indicates reported at detectable concentration.
*Replicate sample

AVOCET ENVIRONMENTAL, INC.

Figures

AVOCET
ENVIRONMENTAL, INC.

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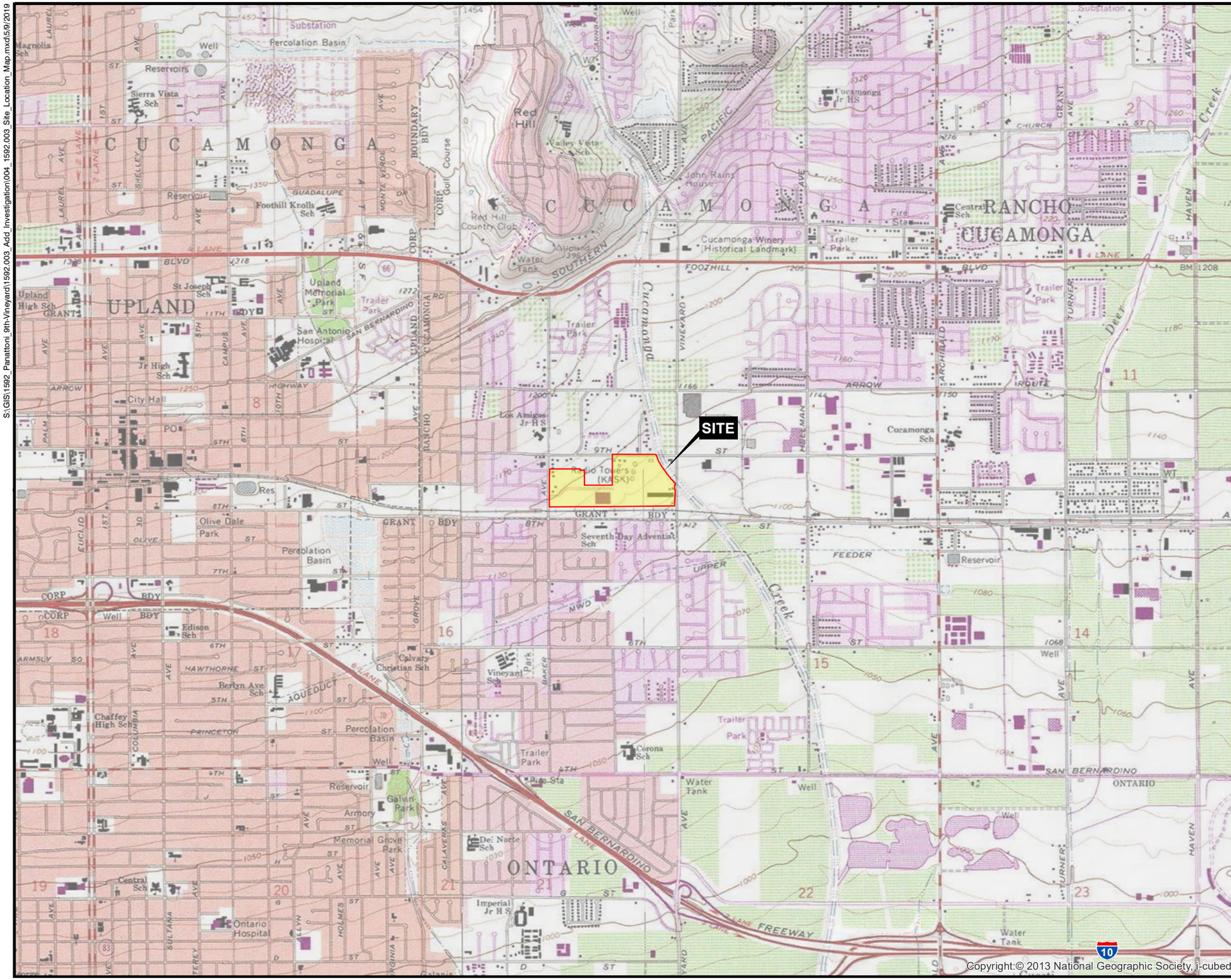


VICINITY MAP

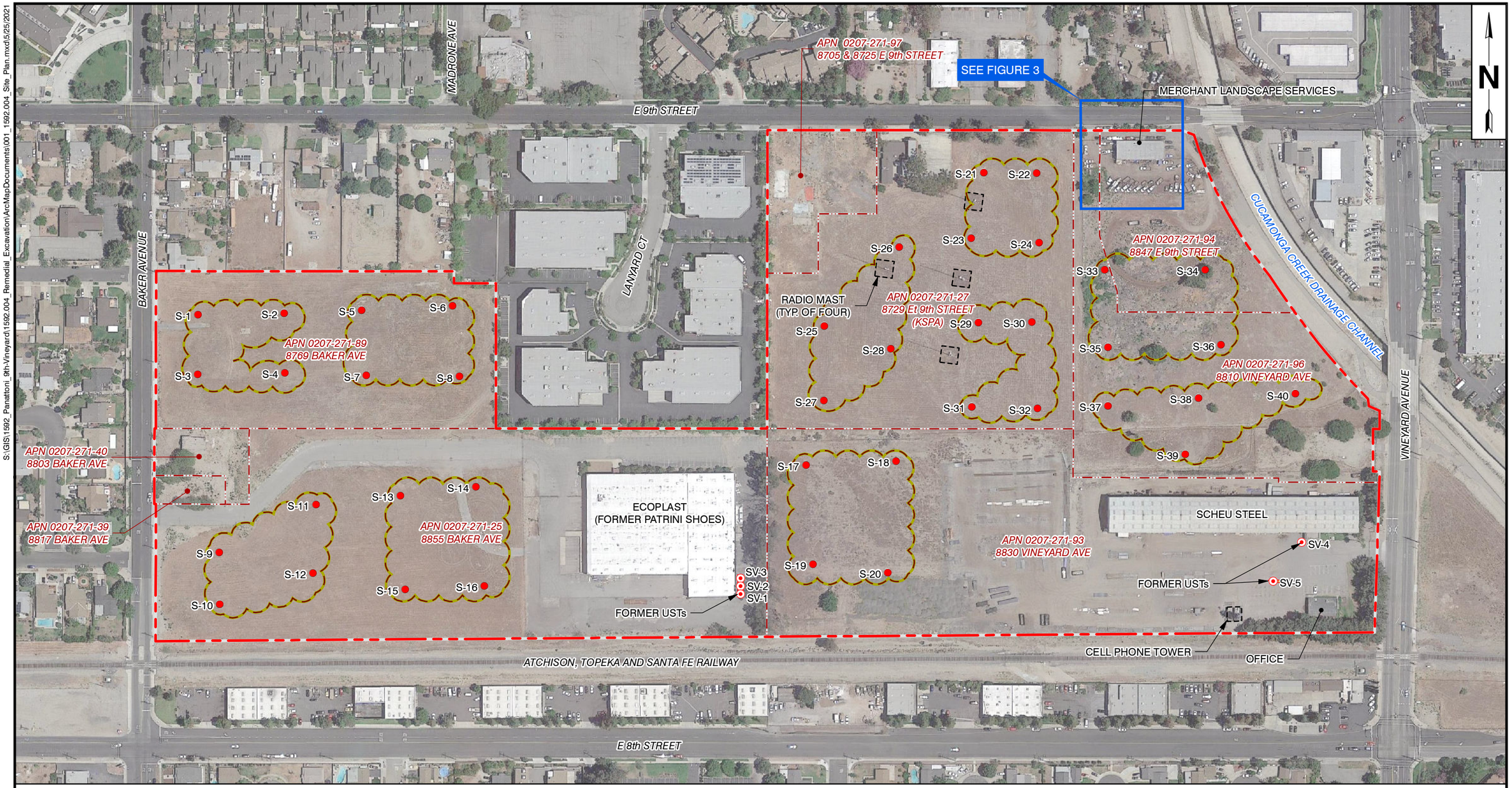
0 1,000 2,000 4,000 FEET

FIGURE 1

SITE LOCATION MAP

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.



EXPLANATION

- SURFACE SOIL SAMPLE
- BORING
- SITE BOUNDARY
- PARCEL BOUNDARY
- FORMER UST (APPROXIMATE)

0 200 400 Feet

REFERENCE:
USGS AERIAL PHOTOGRAPH
DATED: JUNE 8, 2018

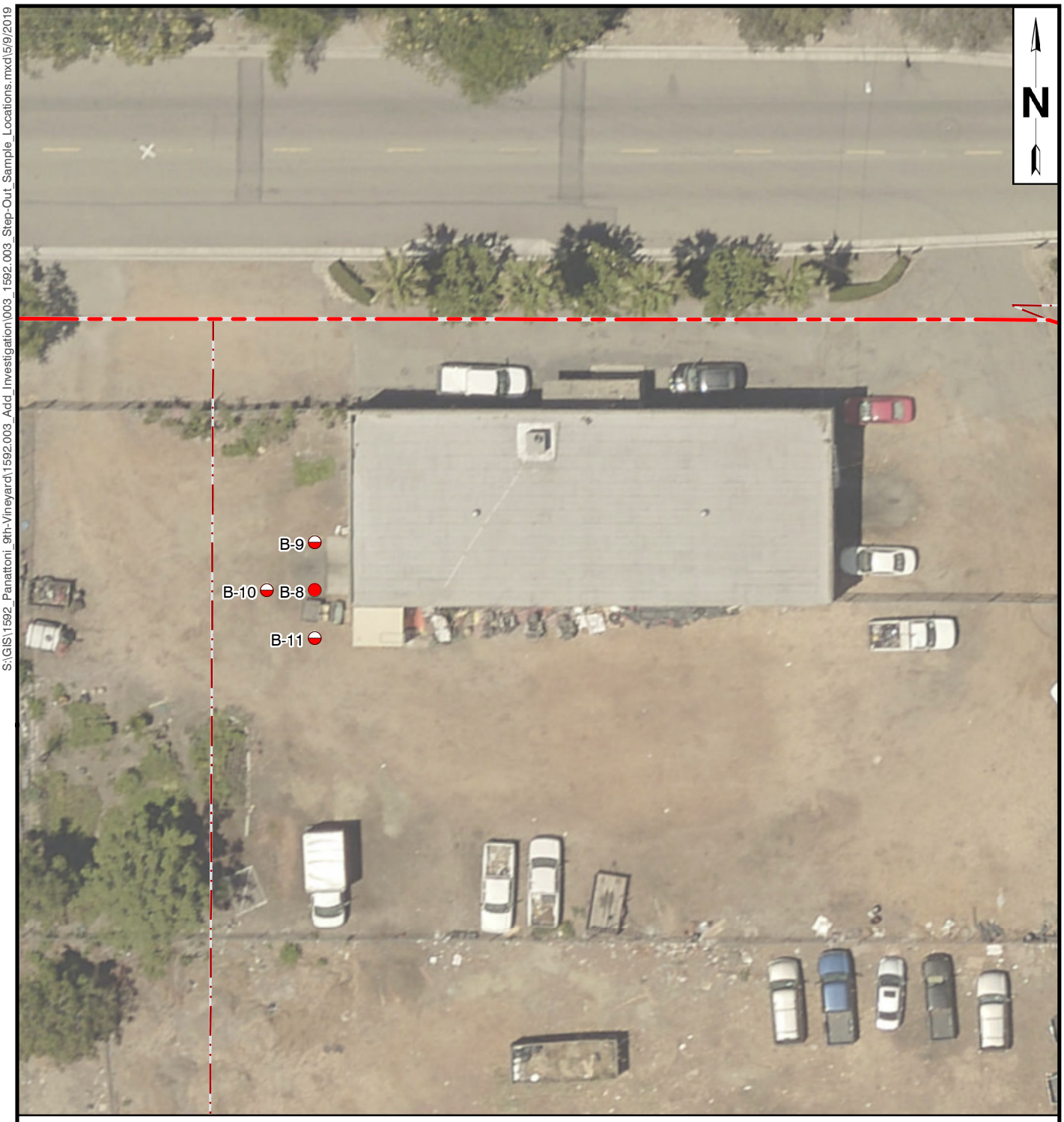
FIGURE 2

SITE PLAN

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1592_Panattoni_9th-Vineyard\1592.003_Add_Investigation\003_1592.003_Step-Out_Sample_Locations.mxd\5/9/2019



EXPLANATION

- SURFACE SOIL SAMPLE
- STEP-OUT SAMPLE
- SITE BOUNDARY
- PARCEL BOUNDARY

0 30 60 Feet

FIGURE 3

STEP-OUT SAMPLE LOCATIONS

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONG, CALIFORNIA

SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

AVOCET ENVIRONMENTAL, INC.

Attachment 1

Laboratory Analytical Report,
Surface Soil Samples

AVOCET
ENVIRONMENTAL, INC.

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WORK ORDER NUMBER: 19-04-1096

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: Panattoni / 1592.002

Attention: Jessica Satterlee
1 Technology Drive
Suite C515
Irvine, CA 92618-5302

Approved for release on 04/22/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 19-04-1096

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Work Order Narrative

Work Order: 19-04-1096 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/12/19. They were assigned to Work Order 19-04-1096.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1096
		Project Name:	Panattoni / 1592.002
		PO Number:	
		Date/Time Received:	04/12/19 15:16
		Number of Containers:	50
Attn:	Jessica Satterlee		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
S1	19-04-1096-1	04/12/19 07:42	1	Solid
S2	19-04-1096-2	04/12/19 07:44	1	Solid
S3	19-04-1096-3	04/12/19 07:40	1	Solid
S4	19-04-1096-4	04/12/19 07:47	1	Solid
C-1	19-04-1096-5	04/12/19 00:00	1	Solid
S5	19-04-1096-6	04/12/19 07:53	1	Solid
S6	19-04-1096-7	04/12/19 07:58	1	Solid
S7	19-04-1096-8	04/12/19 07:50	1	Solid
S8	19-04-1096-9	04/12/19 08:00	1	Solid
C-2	19-04-1096-10	04/12/19 00:00	1	Solid
S9	19-04-1096-11	04/12/19 08:11	1	Solid
S10	19-04-1096-12	04/12/19 08:09	1	Solid
S11	19-04-1096-13	04/12/19 08:02	1	Solid
S12	19-04-1096-14	04/12/19 08:05	1	Solid
C-3	19-04-1096-15	04/12/19 00:00	1	Solid
S13	19-04-1096-16	04/12/19 08:15	1	Solid
S14	19-04-1096-17	04/12/19 08:22	1	Solid
S15	19-04-1096-18	04/12/19 08:17	1	Solid
S16	19-04-1096-19	04/12/19 08:19	1	Solid
C-4	19-04-1096-20	04/12/19 00:00	1	Solid
S37	19-04-1096-21	04/12/19 09:20	1	Solid
S38	19-04-1096-22	04/12/19 09:29	1	Solid
S39	19-04-1096-23	04/12/19 09:23	1	Solid
S40	19-04-1096-24	04/12/19 09:26	1	Solid
C-10	19-04-1096-25	04/12/19 00:00	1	Solid
S33	19-04-1096-26	04/12/19 09:49	1	Solid
S34	19-04-1096-27	04/12/19 09:47	1	Solid
S35	19-04-1096-28	04/12/19 09:37	1	Solid
S36	19-04-1096-29	04/12/19 09:34	1	Solid
C-9	19-04-1096-30	04/12/19 00:00	1	Solid
S25	19-04-1096-31	04/12/19 11:28	1	Solid
S26	19-04-1096-32	04/12/19 11:26	1	Solid
S27	19-04-1096-33	04/12/19 11:30	1	Solid
S28	19-04-1096-34	04/12/19 11:32	1	Solid
C-6	19-04-1096-35	04/12/19 00:00	1	Solid
S29	19-04-1096-36	04/12/19 11:42	1	Solid
S30	19-04-1096-37	04/12/19 11:38	1	Solid
S31	19-04-1096-38	04/12/19 11:34	1	Solid
S32	19-04-1096-39	04/12/19 11:35	1	Solid
C8	19-04-1096-40	04/12/19 00:00	1	Solid
S21	19-04-1096-41	04/12/19 11:55	1	Solid
S22	19-04-1096-42	04/12/19 11:52	1	Solid

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1096
		Project Name:	Panattoni / 1592.002
		PO Number:	
		Date/Time Received:	04/12/19 15:16
		Number of Containers:	50
Attn:	Jessica Satterlee		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
S23	19-04-1096-43	04/12/19 11:45	1	Solid
S24	19-04-1096-44	04/12/19 11:47	1	Solid
C-7	19-04-1096-45	04/12/19 00:00	1	Solid
S17	19-04-1096-46	04/12/19 09:08	1	Solid
S18	19-04-1096-47	04/12/19 09:06	1	Solid
S19	19-04-1096-48	04/12/19 09:11	1	Solid
S20	19-04-1096-49	04/12/19 09:13	1	Solid
C-5	19-04-1096-50	04/12/19 00:00	1	Solid

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-1096 Panattoni / 1592.002 04/12/19
Attn:	Jessica Satterlee		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
S2 (19-04-1096-2)						
Lead	13.8		0.481	mg/kg	EPA 6010B	EPA 3050B
S6 (19-04-1096-7)						
Lead	4.17		0.485	mg/kg	EPA 6010B	EPA 3050B
S9 (19-04-1096-11)						
Lead	23.4		0.505	mg/kg	EPA 6010B	EPA 3050B
C-3 (19-04-1096-15)						
Dieldrin	21		5.0	ug/kg	EPA 8081A	EPA 3545
S13 (19-04-1096-16)						
Lead	6.12		0.526	mg/kg	EPA 6010B	EPA 3050B
C-4 (19-04-1096-20)						
Dieldrin	72		50	ug/kg	EPA 8081A	EPA 3545
S37 (19-04-1096-21)						
Lead	8.70		0.490	mg/kg	EPA 6010B	EPA 3050B
C-10 (19-04-1096-25)						
4,4'-DDE	8.1		4.9	ug/kg	EPA 8081A	EPA 3545
S33 (19-04-1096-26)						
Lead	10.7		0.515	mg/kg	EPA 6010B	EPA 3050B
S25 (19-04-1096-31)						
Lead	8.90		0.508	mg/kg	EPA 6010B	EPA 3050B
S29 (19-04-1096-36)						
Lead	15.8		0.508	mg/kg	EPA 6010B	EPA 3050B
S21 (19-04-1096-41)						
Lead	32.7		0.476	mg/kg	EPA 6010B	EPA 3050B
S18 (19-04-1096-47)						
Lead	9.31		0.500	mg/kg	EPA 6010B	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S2	**19-04-1096-2-A**	**04/12/19 07:44**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:50**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.721	0.962	
Lead	13.8	0.481	0.962	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S6	**19-04-1096-7-A**	**04/12/19 07:58**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:52**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.728	0.971	
Lead	4.17	0.485	0.971	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S9	**19-04-1096-11-A**	**04/12/19 08:11**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:54**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.758	1.01	
Lead	23.4	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S13	**19-04-1096-16-A**	**04/12/19 08:15**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:56**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.789	1.05	
Lead	6.12	0.526	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S37	**19-04-1096-21-A**	**04/12/19 09:20**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:58**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.735	0.980	
Lead	8.70	0.490	0.980	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S33	**19-04-1096-26-A**	**04/12/19 09:49**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:59**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.773	1.03	
Lead	10.7	0.515	1.03	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S25	**19-04-1096-31-A**	**04/12/19 11:28**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 19:07**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.761	1.02	
Lead	8.90	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S29	**19-04-1096-36-A**	**04/12/19 11:42**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 19:09**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.761	1.02	
Lead	15.8	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S21	**19-04-1096-41-A**	**04/12/19 11:55**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 19:10**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.714	0.952	
Lead	32.7	0.476	0.952	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S18	**19-04-1096-47-A**	**04/12/19 09:06**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 19:12**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.750	1.00	
Lead	9.31	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27773**	**N/A**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:33**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.721	0.962	
Lead	ND	0.481	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 1 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-1	**19-04-1096-5-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 17:03**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 2 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-2	**19-04-1096-10-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 17:17**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 3 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-3	**19-04-1096-15-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 17:31**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	21	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 4 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-4	**19-04-1096-20-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 17:46**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

C-4	**19-04-1096-20-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/19/19 13:23**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Dieldrin	72	50	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	181	24-168	1,2,7
2,4,5,6-Tetrachloro-m-Xylene	144	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 5 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-10	**19-04-1096-25-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 18:00**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	8.1	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 6 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-9	**19-04-1096-30-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 18:14**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	135	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 7 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-6	**19-04-1096-35-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 18:29**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 8 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C8	**19-04-1096-40-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 18:43**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 9 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-7	**19-04-1096-45-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 18:57**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 10 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
C-5	**19-04-1096-50-A**	**04/12/19 00:00**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 19:11**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	150	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 11 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3143**	**N/A**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 12:58**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-04-1095-3	**Sample**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:43**	**190416S02**
19-04-1095-3	**Matrix Spike**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:45**	**190416S02**
19-04-1095-3	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:47**	**190416S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	25.00	25.34	101	20.23	81	75-125	22	0-20	4
Lead	ND	25.00	25.25	101	20.38	82	75-125	21	0-20	4

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-04-1095-7	**Sample**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 14:09**	**190417S03**
19-04-1095-7	**Matrix Spike**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 13:26**	**190417S03**
19-04-1095-7	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 13:41**	**190417S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	22.55	90	21.34	85	50-135	6	0-25	
Alpha-BHC	ND	25.00	22.35	89	21.36	85	50-135	5	0-25	
Beta-BHC	ND	25.00	22.15	89	21.88	88	50-135	1	0-25	
4,4'-DDD	ND	25.00	24.98	100	24.71	99	50-135	1	0-25	
4,4'-DDE	ND	25.00	24.43	98	23.90	96	50-135	2	0-25	
4,4'-DDT	ND	25.00	25.71	103	25.26	101	50-135	2	0-25	
Delta-BHC	ND	25.00	22.79	91	22.73	91	50-135	0	0-25	
Dieldrin	ND	25.00	24.46	98	23.93	96	50-135	2	0-25	
Endosulfan I	ND	25.00	24.66	99	23.87	95	50-135	3	0-25	
Endosulfan II	ND	25.00	24.69	99	24.40	98	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	25.88	104	25.12	100	50-135	3	0-25	
Endrin	ND	25.00	25.02	100	24.59	98	50-135	2	0-25	
Endrin Aldehyde	ND	25.00	20.74	83	19.95	80	50-135	4	0-25	
Gamma-BHC	ND	25.00	22.62	90	21.85	87	50-135	3	0-25	
Heptachlor	ND	25.00	23.97	96	22.61	90	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	24.87	99	23.95	96	50-135	4	0-25	
Methoxychlor	ND	25.00	26.17	105	26.44	106	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27773	**LCS**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:35**	**190416L02**
097-01-002-27773	**LCSD**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:37**	**190416L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	26.62	106	26.79	107	80-120	1	0-20	
Lead	25.00	26.44	106	27.09	108	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1096
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3143	**LCS**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 15:06**	**190417L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	21.83	87	50-135	36-149	
Alpha-BHC	25.00	22.07	88	50-135	36-149	
Beta-BHC	25.00	21.11	84	50-135	36-149	
4,4'-DDD	25.00	24.72	99	50-135	36-149	
4,4'-DDE	25.00	22.19	89	50-135	36-149	
4,4'-DDT	25.00	18.42	74	50-135	36-149	
Delta-BHC	25.00	22.25	89	50-135	36-149	
Dieldrin	25.00	22.49	90	50-135	36-149	
Endosulfan I	25.00	23.08	92	50-135	36-149	
Endosulfan II	25.00	22.89	92	50-135	36-149	
Endosulfan Sulfate	25.00	22.63	91	50-135	36-149	
Endrin	25.00	21.58	86	50-135	36-149	
Endrin Aldehyde	25.00	18.54	74	50-135	36-149	
Gamma-BHC	25.00	21.96	88	50-135	36-149	
Heptachlor	25.00	22.19	89	50-135	36-149	
Heptachlor Epoxide	25.00	22.03	88	50-135	36-149	
Methoxychlor	25.00	18.21	73	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-04-1096

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	771	ICP 8300	1
EPA 8081A	EPA 3545	669	GC 51	1

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Glossary of Terms and Qualifiers

Work Order: 19-04-1096 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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WO NO. / LAB USE ONLY: [redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 1 OF 5

LABORATORY CLIENT: Avocet Environmental, Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0977 E-MAIL:

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT) John Duhl

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	LAB TO Composite	OCP by 8081A	Arsenic + Lead by 6010B	
	S1	4-12-19	07:42	Soil	1																		X			
	S2		07:44		1																		X		X	
	S3		07:40		1																		X			
	S4		07:47		1																		X			
	C-1	~~4/12/19~~																						X	~~X~~	SF
	S5	4/12/19	07:53	Soil	1																		X			
	S6		07:58		1																		X		X	
	S7		07:50		1																		X			
	S8		08:00		1																		X			
	C-2																							X	~~X~~	SF

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Dannyle G	4/12/19	15:16
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Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 2 OF 5

LABORATORY CLIENT: Avocet Environmental, Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0777 E-MAIL:

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic & Lead by 6010B	Lab to Composite	by 8081A (OCP)
11	S9	4-12-19	08:11	Soil	1																		X	X	
12	S10	↓	08:09	↓	1																			X	
13	S11		08:02																					X	
14	S12		08:05																					X	
15	C-3																								X
16	S13	4-12-19	08:15	Soil	1																		X	X	
17	S14	↓	08:22	↓	1																			X	
18	S15		08:17		1																			X	
19	S16		08:19		1																			X	
20	C-4																								X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Bannyle [signature]	4/12/19	1516
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 3 OF 5

WO NO. / LAB USE ONLY: [redacted]

LABORATORY CLIENT: Arocet Environmental, Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0977 E-MAIL:

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Joan Duall

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Lab to Composite by:	8081A (OCP)	Arsenic + Lead by 6010B
[illegible]	S37	4/12/19	09:20	Soil	1				X		X
[illegible]	S38	↓	09:29	↓	1				X		
[illegible]	S39	↓	09:23	↓	1				X		
[illegible]	S40	↓	09:26	↓	1				X		
[illegible]	C-10									X	
[illegible]	S33	4/12/19	09:49	Soil	1				X		X
[illegible]	S34	↓	09:47	↓	1				X		
[illegible]	S35	↓	09:37	↓	1				X		
[illegible]	S36	↓	09:34	↓	1				X		
[illegible]	C-9									X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Bannyle EL	4/12/19	15:16
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

DATE: 4-12-19
PAGE: 4 OF 5

WO NO.: (LAB USE ONLY) [redacted]

LABORATORY CLIENT: Arcadet Environmental
ADDRESS: 1 Technology #C515
CITY: Irvine STATE: CA ZIP:
TEL: (949) 296-0977 E-MAIL:

CLIENT PROJECT NAME / NO.: PANattoni / 1592.002
PROJECT CONTACT: Jessica Satterlee
GLOBAL ID: LOG CODE:
P.O. NO.: 1592.002
LAB CONTACT OR QUOTE NO.:
SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Lab to Composite 8081A (OCP)	Arsenic + Lead 6020B
	S25	4-12-19	11:28	Soil	1	X			X	X
	S26		11:26		1				X	
	S27		11:30		1				X	
	S28		11:32		1				X	
	C-6								X	
	S29	4-12-19	11:42	Soil	1	X			X	X
	S30		11:38		1				X	
	S31		11:34		1				X	
	S32		11:36		1				X	
	C8								X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Dannyle BZ	4/12/19	15:16

2014-07-01 Revision

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WO NO. / LAB USE ONLY

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 5 OF 5

LABORATORY CLIENT: Avocet Environmental, Inc
ADDRESS: 1 Technology Drive # C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0977 E-MAIL:

CLIENT PROJECT NAME / NO.: Pannattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) John Duhl

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Lab to Composite	OCP by 8081A	Arsenic + Lead by 6010B
[illegible]	S21	4-12-19	11:55	Soil	1	X			X		X
[illegible]	S22	↓	11:52	↓	↓	↓			X		
[illegible]	S23	↓	11:45	↓	↓	↓			X		
[illegible]	S24	↓	11:47	↓	↓	↓			X	↓	
[illegible]	C-7									X	
[illegible]	S17	4-12-19	09:08	Soil	1	X			X		
[illegible]	S18	~~09:08~~	09:06	↓	1	↓			X		X
[illegible]	S19	~~09:06~~	09:11	↓	1	↓			X		
[illegible]	S20	~~09:11~~	09:13	↓	1	↓			X		
[illegible]	C-5	~~09:13~~								X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Dannyle [signature]	4/12/19	15:16

2014-07-01 Revision

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WORK ORDER NUMBER: 19-04-1096

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: AVOCET

DATE: 04 / 12 / 2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): 2.3 °C (w/ CF): 2.1 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: LS

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: LS
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 69

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 69

Reviewed by: 1163

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Attachment 2

Boring Logs

AVOCET
ENVIRONMENTAL, INC.

Key to Soil Symbols and Terms

Major Divisions		Graphic Log	USCS Symbols	Typical Names
Coarse-Grained Soils (More than half of material is larger than No. 200 sieve)				
GRAVELS (More than half of coarse fraction is larger than No. 4 sieve.)	Clean Gravel (little or no fines)		GW	Well graded gravels, gravel-sand mixtures
			GP	Poorly graded gravels, gravel-sand mixtures, little or no fines
	Gravels with Fines (appreciable amounts of fines)		GM	Silty gravels, gravel-sand silt mixtures
			GC	Clayey gravels, gravel-sand, clay mixture
SANDS (More than half of coarse fraction is smaller than No. 4 sieve)	Clean Sands (little or no fines)		SW	Well graded sands, gravelly sand, little or no fines
			SP	Poorly graded sands, gravelly sands, little or no fines
	Sands and Fines (appreciable amounts of fines)		SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils (More than half of material is smaller than No. 200 Sieve)				
SILTS AND CLAYS (Liquid limit less than 50)			ML	Silts and very fine sands, rock-flour, silty or clayey fine sands, or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS (Liquid limit greater than 50)			MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils

Terms used in this report for describing soils according to their texture or grain size distributions are generally in accordance with the Unified Soil Classification System

Terms Describing Density and Consistency

COARSE-GRAINED SOILS (major portion retained on No. 200 sieve) include (1) clean gravels, (2) silty or clayey gravels, and (3) silty, clayey or gravelly sand. Relative density is related to SPT blow count corrected for overburden pressure or drive energy.

Relative Density	SPT "N" Value (Blows/ft)	Relative Density %	Characteristic
Very Loose	0 - 4	0 - 15	Easily penetrated with 1/2-inch reinforcing rod pushed by hand
Loose	4 - 10	15 - 40	Easily penetrated with 1/2-inch reinforcing rod pushed by hand
Medium Dense	10 - 30	40 - 70	Penetrated a foot with 1/2-inch reinforcing rod driven with a 5-lb hammer
Dense	30 - 50	70 - 85	Penetrated a foot with 1/2-inch reinforcing rod driven with a 5-lb hammer
Very Dense	>50	85 - 100	Penetrated only a few inches with 1/2-inch reinforcing rod driven with a 5-lb hammer

FINE-GRAINED SOILS (major portion retained on No. 200 sieve) include (1) inorganic and organic silts and clays, (2) gravelly, sandy or silty clays, and (3) clayey silts. Consistency is rated according to shearing strength, as indicated by penetrometer readings, direct shear, or SPT blow count.

Consistency	SPT "N" Value (Blows/ft)	Characteristic
Very Soft	0 - 2	Easily penetrated a few inches by fist
Soft	2 - 4	Easily penetrated a few inches by thumb
Firm	4 - 8	Penetrated a few inches by thumb with effort
Stiff	8 - 16	Readily indented by thumb, but penetrated only with great effort
Very Stiff	16 - 32	Readily indented by thumbnail
Hard	>32	Indented with difficulty

Note: Characteristics and blow counts considered uncemented deposits only. Blow count (blow/foot) is by Standard Penetration Test (SPT): 2-inch diameter sampler driven by 140-pound hammer free falling 30-inches.

Terms Characterizing Soil Structure

SLICKENSIDED	Having inclined planes of weakness that are slick and glossy in appearance
FISSURED	Having shrinkage cracks, frequently filled with fine sand or silt, usually vertical
LAMINATED	Composed of thin layers of varying color and texture
INTERBEDDED	Composed of alternate layers of different soil types
CALCAREOUS	Containing appreciable quantities of calcium carbonate
WELL GRADED	Wide range in grain sizes and substantial amounts of intermediate particle sizes
POORLY GRADED	Mostly one grain size, or having a range of sizes without some intermediate sizes
POROUS	Having visibly apparent void spaces through which water, air, or light may pass

Soil Moisture

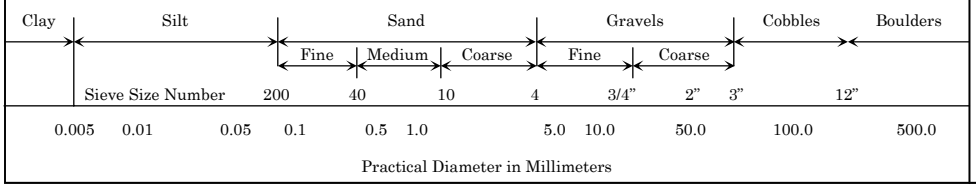
From low to high, soil moisture is indicated by:

DRY	No apparent moisture
SLIGHTLY MOIST	Slight moisture content (well below optimum)
MOIST	Near optimum moisture content for compaction
VERY MOIST	Over optimum moisture content
WET	Water completely fills soil voids (e.g. below water table)

Size Proportions

DESIGNATION	PERCENT BY WEIGHT
TRACE	1 to 10
LITTLE	10 to 20
SOME	20 to 30

Grain Size Distribution



AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. SV-1

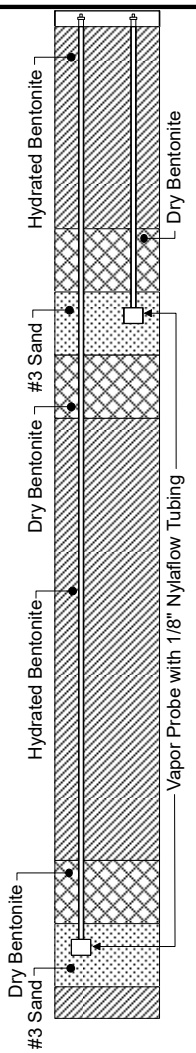
Logged By: Spencer Felknor
Checked By: Philip Miller, P.E.
Driller: Strong Arm/Frank
Drilling Method: Geoprobe
Sampling Method: 1"x4" Acetate
Sampling Interval: 2, 5, 10, 15 feet

Date Started: 4/11/2019
Date Completed: 4/11/2019
Boring Depth: 16 feet

Client: Panattoni
Site: 9th Street & Vineyard Avenue
Location: Rancho Cucamonga, California
Project No.:1592.002

Depth (ft)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	Water Level	Description
0							6" Gravel at surface
2	SV-1-2		0		SM		Very dark grayish brown (2.5YR 3/2), SILTY SAND, slightly moist, 80% fine-grained sand, 15% silty fines, 5% fine gravel, no staining, no odor. **Artificial Fill (Af)**
4							
6	SV-1-5		0				-as above
8					SW		
10	SV-1-10		0				Light olive brown (2.5Y 5/3), well graded SAND, slightly moist, 95% fine- to coarse-grained sand, 5% silty fines, no staining, no odor.
12							
14					SM		Olive gray (5Y 5/2), SILTY SAND with GRAVEL, slightly moist, 60% fine-grained, poorly graded sand, 20% fine to coarse gravel, 20% silty fines, no staining, no odor.
16	SV-1-15		0				
18							
20							

Well Completion Details



Total depth at 16 feet. No groundwater encountered. Vapor probes installed at 5 and 15 feet.

AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. SV-2

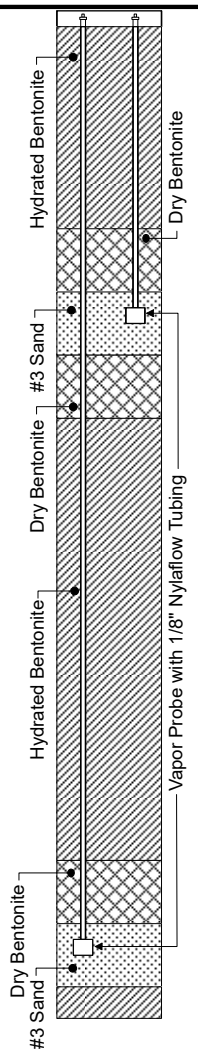
Logged By: Spencer Felknor
Checked By: Philip Miller, P.E.
Driller: Strong Arm/Frank
Drilling Method: Geoprobe
Sampling Method: 1"x4" Acetate
Sampling Interval: 2, 5, 10, 15 feet

Date Started: 4/11/2019
Date Completed: 9/11/2018
Boring Depth: 16 feet

Client: Panattoni
Site: 9th Street & Vineyard Avenue
Location: Rancho Cucamonga, California
Project No.:1592.002

Depth (ft)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	Water Level	Description
0							6" Gravel at surface
					SM		
2	SV-2-2		0				Dark olive brown (2.5Y 3/3), SILTY SAND, slightly moist, 80% fine-grianed sand, 15% silty fines, 5% coarse gravel, no staining, no odor.
4							
	SV-2-5		0				-as above
6							
8					SW		
10	SV-2-10		0				Dark olive brown (2.5Y 3/3), well graded SAND with GRAVEL, moist, 75% fine- to coarse-grained sand, 20% fine to coarse gravel, 5% silty fines, no staining, no odor.
12							
14							
	SV-2-15		0				-as above except 95% fine- to coarse-grained sand.
16							
18							
20							

Well Completion Details



Total depth at 16 feet. No groundwater encountered. Vapor probes installed at 5 and 15 feet.

AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. SV-3

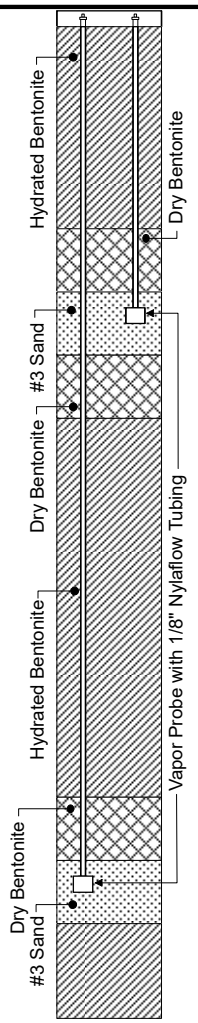
Logged By: Spencer Felknor
Checked By: Philip Miller, P.E.
Driller: Strong Arm/Frank
Drilling Method: Hand Auger/Geoprobe
Sampling Method: 1"x4" Acetate
Sampling Interval: 2, 5, 10, 15 feet

Date Started: 4/11/2019
Date Completed: 4/11/2019
Boring Depth: 16 feet

Client: Panattoni
Site: 9th Street & Vineyard Avenue
Location: Rancho Cucamonga, California
Project No.:1592.002

Depth (ft)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	Water Level	Description
0							6" Gravel at surface
					SM		
2	SV-3-2		0				Very dark grayish brown (10YR 3/2), SILTY SAND, slightly moist, 80% fine-grained sand, 15% silty fines, 5% fine gravel.
4							
	SV-3-5		0				-as above
6							
8					SW		
	SV-3-10		0				Light olive brown (2.5Y 5/3), well graded SAND with GRAVEL, slightly moist, 75% fine- to coarse-grained sand, 20% fine gravel, 5% silty fines, no staining, no odor.
10							
12							
14							
	SV-3-15		0				-as above
16							
18							
20							

Well Completion Details



Total depth at 16 feet. No groundwater encountered. Vapor probes installed at 5 and 14 feet.

AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. SV-4

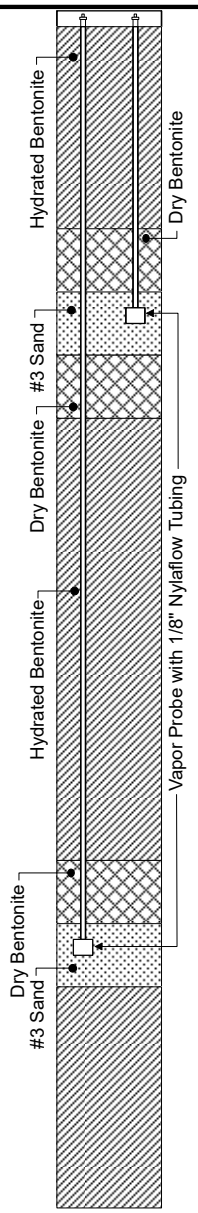
Logged By: Spencer Felknor
Checked By: Philip Miller, P.E.
Driller: Strong Arm/Armando
Drilling Method: Geoprobe
Sampling Method: 1"x4" Acetate
Sampling Interval: 2, 5, 10, 15, 19 feet

Date Started: 4/12/2019
Date Completed: 4/12/2019
Boring Depth: 19 feet

Client: Panattoni
Site: 9th Street & Vineyard Avenue
Location: Rancho Cucamonga, California
Project No.:1592.002

Depth (ft)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	Water Level	Description
0							4" Gravel at surface
					SM		
2			0				Dark olive brown (2.5Y 3/3), SILTY SAND, slightly moist, 80% fine-grianed sand, 20% silty fines, no staining, no odor.
4							
	SV-4-5		0		SW		Pale olive (5Y 6/3), well graded SAND, slightly moist, 90% fine- to coarse-grained sand, 5% fine gravel, 5% silty fines, no staining, no odor.
6							
8							
							-as above except 70% fine- to coarse-grained sand, 25% fine to coarse gravel, 5% silty fines.
10	SV-4-10		0				
12							
14							
	SV-4-15		0				-as above
16							
18							
	SV-4-19		0				-as above
20							

Well Completion Details



Total depth at 19 feet. No groundwater encountered. Vapor probes installed at 5 and 15 feet.

AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. SV-5

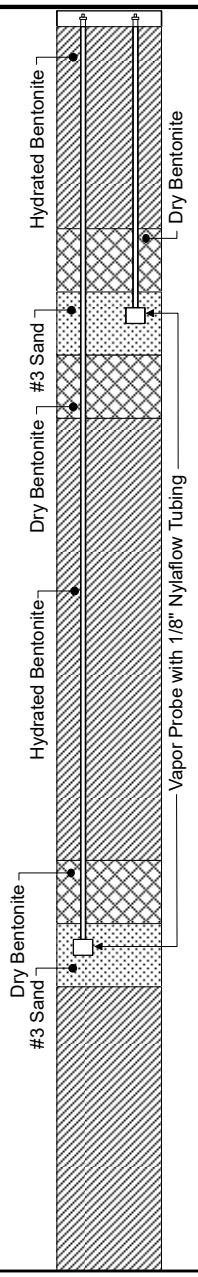
Logged By: Spencer Felknor
Checked By: Philip Miller, P.E.
Driller: Strong Arm/Frank
Drilling Method: Hand Auger/Geoprobe
Sampling Method: 1"x4" Acetate
Sampling Interval: 2, 5, 10, 15, 20, 25 feet

Date Started: 4/11/2019
Date Completed: 4/11/2019
Boring Depth: 26 feet

Client: Panattoni
Site: 9th Street & Vineyard Avenue
Location: Rancho Cucamonga, California
Project No.:1592.002

Depth (ft)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	Water Level	Description
0							4" Gravel at surface
					SM		Dark olive brown (2.5Y 3/3), SILTY SAND, slightly moist, 80% fine-grianed, poorly graded sand, 15% silty fines, 5% fine gravel, no staining, no odor.
2			0				
4							
			0				-as above
6							
8					SW		Olive (5Y 4/4), well graded SAND with GRAVEL, slightly moist, 80% fine- to coarse-grained sand, 15% fine gravel, 5% silty fines, no staining, no odor.
10	SV-5-10		0				
12							
14							-as above except 15% fine to coarse gravel.
	SV-5-15		0				
16							
18					SP-SM		Yellowish brown (10YR 5/4), poorly graded SAND with SILT, moist, 90% fine-grained sand,10% silty fines, no staining, no odor.
20							

Well Completion Details



AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. SV-5

Logged By: Spencer Felknor
Checked By: Philip Miller, P.E.
Driller: Strong Arm/Frank
Drilling Method: Hand Auger/Geoprobe
Sampling Method: 1"x4" Acetate
Sampling Interval: 2, 5, 10, 15, 20, 25 feet

Date Started: 4/11/2019
Date Completed: 4/11/2019
Boring Depth: 26 feet

Client: Panattoni
Site: 9th Street & Vineyard Avenue
Location: Rancho Cucamonga, California
Project No.:1592.002

Depth (ft)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	Water Level	Description	Well Completion Details
20	SV-5-20		0		SP-SM		Yellowish brown (10YR 5/4), poorly graded SAND with SILT, moist, 90% fine-grained sand,10% silty fines, no staining, no odor.	
22								
24								
	SV-5-25		0				-as above	
26								
28								
30								
32								
34								
36								
38								
40								

Total depth at 26 feet. No groundwater encountered. Vapor probes installed at 5 and 15 feet.

AVOCET ENVIRONMENTAL, INC.

Attachment 3

Laboratory Analytical Report,
Soil Matrix Samples

AVOCET
ENVIRONMENTAL, INC.

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WORK ORDER NUMBER: 19-04-0974

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: Panattoni / 1592.002

Attention: Jessica Satterlee
1 Technology Drive
Suite C515
Irvine, CA 92618-5302

Approved for release on 04/19/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Narrative

Work Order: 19-04-0974 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/11/19. They were assigned to Work Order 19-04-0974.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-0974
		Project Name:	Panattoni / 1592.002
		PO Number:	
		Date/Time Received:	04/11/19 16:41
		Number of Containers:	84
Attn:	Jessica Satterlee		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SV-1-10	19-04-0974-1	04/11/19 10:00	4	Solid
SV-1-15	19-04-0974-2	04/11/19 10:15	4	Solid
B1-2	19-04-0974-3	04/11/19 09:40	4	Solid
B1-5	19-04-0974-4	04/11/19 10:00	4	Solid
B2-2	19-04-0974-5	04/11/19 11:15	4	Solid
B2-5	19-04-0974-6	04/11/19 11:20	4	Solid
B3-2	19-04-0974-7	04/11/19 10:40	4	Solid
SV-3-2	19-04-0974-8	04/11/19 13:15	4	Solid
SV-3-5	19-04-0974-9	04/11/19 13:20	4	Solid
SV-3-10	19-04-0974-10	04/11/19 13:30	4	Solid
SV-2-2	19-04-0974-11	04/11/19 11:20	4	Solid
SV-2-5	19-04-0974-12	04/11/19 11:25	4	Solid
SV-2-10	19-04-0974-13	04/11/19 11:45	4	Solid
SV-2-15	19-04-0974-14	04/11/19 12:00	4	Solid
SV-5-10	19-04-0974-15	04/11/19 08:00	4	Solid
SV-5-15	19-04-0974-16	04/11/19 08:10	4	Solid
SV-5-20	19-04-0974-17	04/11/19 08:15	4	Solid
SV-5-25	19-04-0974-18	04/11/19 08:30	4	Solid
SV-1-2	19-04-0974-19	04/11/19 09:30	4	Solid
SV-1-5	19-04-0974-20	04/11/19 09:40	4	Solid
SV-3-15	19-04-0974-21	04/11/19 14:00	4	Solid

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-0974 Panattoni / 1592.002 04/11/19
Attn:	Jessica Satterlee		Page 1 of 4

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SV-1-10 (19-04-0974-1)						
Barium	74.0		0.510	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.279		0.255	mg/kg	EPA 6010B	EPA 3050B
Chromium	7.96		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.82		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	4.64		0.510	mg/kg	EPA 6010B	EPA 3050B
Nickel	5.74		0.255	mg/kg	EPA 6010B	EPA 3050B
Vanadium	22.1		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	27.5		1.02	mg/kg	EPA 6010B	EPA 3050B
SV-1-15 (19-04-0974-2)						
Barium	70.7		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.281		0.258	mg/kg	EPA 6010B	EPA 3050B
Chromium	23.7		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.01		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	11.2		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.05		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	7.04		0.258	mg/kg	EPA 6010B	EPA 3050B
Vanadium	20.6		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	34.0		1.03	mg/kg	EPA 6010B	EPA 3050B
Tert-Butyl Alcohol (TBA)	33		16	ug/kg	EPA 8260B	EPA 5035
B1-2 (19-04-0974-3)						
Barium	157		0.510	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.557		0.255	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.680		0.510	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.4		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.72		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	11.4		0.510	mg/kg	EPA 6010B	EPA 3050B
Nickel	10.3		0.255	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.2		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	48.7		1.02	mg/kg	EPA 6010B	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-0974 Panattoni / 1592.002 04/11/19
Attn:	Jessica Satterlee		Page 2 of 4

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B2-2 (19-04-0974-5)						
Barium	161		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.591		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.768		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.8		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.8		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	12.1		0.508	mg/kg	EPA 6010B	EPA 3050B
Nickel	11.1		0.254	mg/kg	EPA 6010B	EPA 3050B
Vanadium	43.4		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	49.9		1.02	mg/kg	EPA 6010B	EPA 3050B
B3-2 (19-04-0974-7)						
Barium	140		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.569		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.644		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.7		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.28		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	11.2		0.503	mg/kg	EPA 6010B	EPA 3050B
Nickel	9.59		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	44.6		1.01	mg/kg	EPA 6010B	EPA 3050B
SV-3-2 (19-04-0974-8)						
Carbon Disulfide	7.9		7.5	ug/kg	EPA 8260B	EPA 5035
SV-3-10 (19-04-0974-10)						
Barium	38.8		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	8.66		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.82		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	5.35		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.69		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	3.50		0.248	mg/kg	EPA 6010B	EPA 3050B
Vanadium	14.7		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	22.6		0.990	mg/kg	EPA 6010B	EPA 3050B
SV-2-2 (19-04-0974-11)						
Carbon Disulfide	25		7.3	ug/kg	EPA 8260B	EPA 5035

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-0974 Panattoni / 1592.002 04/11/19
Attn:	Jessica Satterlee		Page 3 of 4

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SV-2-10 (19-04-0974-13)						
Barium	89.2		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.419		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.597		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.2		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.65		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	11.3		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.642		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	8.48		0.258	mg/kg	EPA 6010B	EPA 3050B
Vanadium	30.0		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	33.9		1.03	mg/kg	EPA 6010B	EPA 3050B
C25-C28	6.6		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	11		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	8.4		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	37		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
Benzene	0.82		0.71	ug/kg	EPA 8260B	EPA 5035
Carbon Disulfide	51		7.1	ug/kg	EPA 8260B	EPA 5035
SV-2-15 (19-04-0974-14)						
Barium	74.9		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.310		0.249	mg/kg	EPA 6010B	EPA 3050B
Chromium	8.36		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.26		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	7.61		0.498	mg/kg	EPA 6010B	EPA 3050B
Nickel	6.31		0.249	mg/kg	EPA 6010B	EPA 3050B
Vanadium	21.2		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	29.0		0.995	mg/kg	EPA 6010B	EPA 3050B
SV-5-20 (19-04-0974-17)						
Arsenic	0.763		0.732	mg/kg	EPA 6010B	EPA 3050B
Barium	187		0.488	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.852		0.244	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.628		0.488	mg/kg	EPA 6010B	EPA 3050B
Chromium	14.3		0.244	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.5		0.244	mg/kg	EPA 6010B	EPA 3050B
Copper	7.33		0.488	mg/kg	EPA 6010B	EPA 3050B
Nickel	8.87		0.244	mg/kg	EPA 6010B	EPA 3050B
Vanadium	49.1		0.244	mg/kg	EPA 6010B	EPA 3050B
Zinc	44.5		0.976	mg/kg	EPA 6010B	EPA 3050B

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-0974 Panattoni / 1592.002 04/11/19
Attn:	Jessica Satterlee		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SV-5-25 (19-04-0974-18)						
Barium	172		0.481	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.899		0.240	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.881		0.481	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.9		0.240	mg/kg	EPA 6010B	EPA 3050B
Cobalt	13.8		0.240	mg/kg	EPA 6010B	EPA 3050B
Copper	12.3		0.481	mg/kg	EPA 6010B	EPA 3050B
Nickel	11.0		0.240	mg/kg	EPA 6010B	EPA 3050B
Vanadium	58.7		0.240	mg/kg	EPA 6010B	EPA 3050B
Zinc	56.0		0.962	mg/kg	EPA 6010B	EPA 3050B
SV-1-2 (19-04-0974-19)						
Carbon Disulfide	24		7.4	ug/kg	EPA 8260B	EPA 5035
SV-3-15 (19-04-0974-21)						
Barium	59.5		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.308		0.249	mg/kg	EPA 6010B	EPA 3050B
Chromium	13.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.08		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	9.91		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.39		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	7.09		0.249	mg/kg	EPA 6010B	EPA 3050B
Vanadium	20.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	32.0		0.995	mg/kg	EPA 6010B	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-10	**19-04-0974-1-A**	**04/11/19 10:00**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 13:31**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-15	**19-04-0974-2-A**	**04/11/19 10:15**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 17:28**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 3 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**19-04-0974-3-A**	**04/11/19 09:40**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 17:50**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 4 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-5	**19-04-0974-4-A**	**04/11/19 10:00**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 18:12**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 5 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-2	**19-04-0974-5-A**	**04/11/19 11:15**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 18:33**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	112	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 6 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-5	**19-04-0974-6-A**	**04/11/19 11:20**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 19:16**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 7 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**19-04-0974-7-A**	**04/11/19 10:40**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 19:38**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 8 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-10	**19-04-0974-10-A**	**04/11/19 13:30**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 19:59**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 9 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-10	**19-04-0974-13-A**	**04/11/19 11:45**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 20:21**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	6.6	5.0	1.00	
C29-C32	11	5.0	1.00	
C33-C36	8.4	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	37	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 10 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-15	**19-04-0974-14-A**	**04/11/19 12:00**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 20:42**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 11 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-20	**19-04-0974-17-A**	**04/11/19 08:15**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 21:04**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	118	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 12 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-25	**19-04-0974-18-A**	**04/11/19 08:30**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 21:25**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 13 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-15	**19-04-0974-21-A**	**04/11/19 14:00**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 21:47**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	118	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 14 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-3570**	**N/A**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 12:04**	**190416B15**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-10	**19-04-0974-1-A**	**04/11/19 10:00**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:10**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	ND	0.765	1.02	
Barium	74.0	0.510	1.02	
Beryllium	0.279	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	7.96	0.255	1.02	
Cobalt	4.82	0.255	1.02	
Copper	4.64	0.510	1.02	
Lead	ND	0.510	1.02	
Molybdenum	ND	0.255	1.02	
Nickel	5.74	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	22.1	0.255	1.02	
Zinc	27.5	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-15	**19-04-0974-2-A**	**04/11/19 10:15**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:12**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Arsenic	ND	0.773	1.03	
Barium	70.7	0.515	1.03	
Beryllium	0.281	0.258	1.03	
Cadmium	ND	0.515	1.03	
Chromium	23.7	0.258	1.03	
Cobalt	5.01	0.258	1.03	
Copper	11.2	0.515	1.03	
Lead	ND	0.515	1.03	
Molybdenum	4.05	0.258	1.03	
Nickel	7.04	0.258	1.03	
Selenium	ND	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	20.6	0.258	1.03	
Zinc	34.0	1.03	1.03	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 3 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**19-04-0974-3-A**	**04/11/19 09:40**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:14**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	ND	0.765	1.02	
Barium	157	0.510	1.02	
Beryllium	0.557	0.255	1.02	
Cadmium	0.680	0.510	1.02	
Chromium	18.4	0.255	1.02	
Cobalt	9.72	0.255	1.02	
Copper	11.4	0.510	1.02	
Lead	ND	0.510	1.02	
Molybdenum	ND	0.255	1.02	
Nickel	10.3	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	40.2	0.255	1.02	
Zinc	48.7	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-2	**19-04-0974-5-A**	**04/11/19 11:15**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:16**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	ND	0.761	1.02	
Barium	161	0.508	1.02	
Beryllium	0.591	0.254	1.02	
Cadmium	0.768	0.508	1.02	
Chromium	19.8	0.254	1.02	
Cobalt	10.8	0.254	1.02	
Copper	12.1	0.508	1.02	
Lead	ND	0.508	1.02	
Molybdenum	ND	0.254	1.02	
Nickel	11.1	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	43.4	0.254	1.02	
Zinc	49.9	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**19-04-0974-7-A**	**04/11/19 10:40**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:18**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	ND	0.754	1.01	
Barium	140	0.503	1.01	
Beryllium	0.569	0.251	1.01	
Cadmium	0.644	0.503	1.01	
Chromium	17.7	0.251	1.01	
Cobalt	9.28	0.251	1.01	
Copper	11.2	0.503	1.01	
Lead	ND	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	9.59	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	40.5	0.251	1.01	
Zinc	44.6	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-10	**19-04-0974-10-A**	**04/11/19 13:30**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:23**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	ND	0.743	0.990	
Barium	38.8	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	8.66	0.248	0.990	
Cobalt	3.82	0.248	0.990	
Copper	5.35	0.495	0.990	
Lead	ND	0.495	0.990	
Molybdenum	1.69	0.248	0.990	
Nickel	3.50	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	14.7	0.248	0.990	
Zinc	22.6	0.990	0.990	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-10	**19-04-0974-13-A**	**04/11/19 11:45**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:25**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Arsenic	ND	0.773	1.03	
Barium	89.2	0.515	1.03	
Beryllium	0.419	0.258	1.03	
Cadmium	0.597	0.515	1.03	
Chromium	18.2	0.258	1.03	
Cobalt	6.65	0.258	1.03	
Copper	11.3	0.515	1.03	
Lead	ND	0.515	1.03	
Molybdenum	0.642	0.258	1.03	
Nickel	8.48	0.258	1.03	
Selenium	ND	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	30.0	0.258	1.03	
Zinc	33.9	1.03	1.03	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-15	**19-04-0974-14-A**	**04/11/19 12:00**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:27**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	ND	0.746	0.995	
Barium	74.9	0.498	0.995	
Beryllium	0.310	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	8.36	0.249	0.995	
Cobalt	5.26	0.249	0.995	
Copper	7.61	0.498	0.995	
Lead	ND	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	6.31	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	21.2	0.249	0.995	
Zinc	29.0	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-20	**19-04-0974-17-A**	**04/11/19 08:15**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:29**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	0.763	0.732	0.976	
Barium	187	0.488	0.976	
Beryllium	0.852	0.244	0.976	
Cadmium	0.628	0.488	0.976	
Chromium	14.3	0.244	0.976	
Cobalt	10.5	0.244	0.976	
Copper	7.33	0.488	0.976	
Lead	ND	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	8.87	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	49.1	0.244	0.976	
Zinc	44.5	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-25	**19-04-0974-18-A**	**04/11/19 08:30**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:31**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	ND	0.721	0.962	
Barium	172	0.481	0.962	
Beryllium	0.899	0.240	0.962	
Cadmium	0.881	0.481	0.962	
Chromium	19.9	0.240	0.962	
Cobalt	13.8	0.240	0.962	
Copper	12.3	0.481	0.962	
Lead	ND	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	11.0	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	58.7	0.240	0.962	
Zinc	56.0	0.962	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 11 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-15	**19-04-0974-21-A**	**04/11/19 14:00**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:32**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	ND	0.746	0.995	
Barium	59.5	0.498	0.995	
Beryllium	0.308	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	13.1	0.249	0.995	
Cobalt	5.08	0.249	0.995	
Copper	9.91	0.498	0.995	
Lead	ND	0.498	0.995	
Molybdenum	1.39	0.249	0.995	
Nickel	7.09	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	20.4	0.249	0.995	
Zinc	32.0	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 12 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27771**	**N/A**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 13:55**	**190415L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	ND	0.725	0.966	
Barium	ND	0.483	0.966	
Beryllium	ND	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	ND	0.242	0.966	
Cobalt	ND	0.242	0.966	
Copper	ND	0.483	0.966	
Lead	ND	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	ND	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	ND	0.242	0.966	
Zinc	ND	0.966	0.966	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-10	**19-04-0974-1-A**	**04/11/19 10:00**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:45**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-15	**19-04-0974-2-A**	**04/11/19 10:15**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:52**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**19-04-0974-3-A**	**04/11/19 09:40**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:54**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-2	**19-04-0974-5-A**	**04/11/19 11:15**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:57**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**19-04-0974-7-A**	**04/11/19 10:40**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:59**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-10	**19-04-0974-10-A**	**04/11/19 13:30**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:01**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-10	**19-04-0974-13-A**	**04/11/19 11:45**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:08**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-15	**19-04-0974-14-A**	**04/11/19 12:00**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:10**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-20	**19-04-0974-17-A**	**04/11/19 08:15**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:13**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

SV-5-25	**19-04-0974-18-A**	**04/11/19 08:30**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:15**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

SV-3-15	**19-04-0974-21-A**	**04/11/19 14:00**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:17**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Method Blank	**099-16-272-4541**	**N/A**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:41**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**19-04-0974-3-A**	**04/11/19 09:40**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 11:04**	**190416L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-2	**19-04-0974-5-A**	**04/11/19 11:15**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 11:18**	**190416L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**19-04-0974-7-A**	**04/11/19 10:40**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 11:32**	**190416L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3142**	**N/A**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 08:56**	**190416L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 1 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-10	**19-04-0974-1-C**	**04/11/19 10:00**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 18:37**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	41	1.00	
Benzene	ND	0.82	1.00	
Bromobenzene	ND	0.82	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.82	1.00	
Bromoform	ND	4.1	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.82	1.00	
sec-Butylbenzene	ND	0.82	1.00	
tert-Butylbenzene	ND	0.82	1.00	
Carbon Disulfide	ND	8.2	1.00	
Carbon Tetrachloride	ND	0.82	1.00	
Chlorobenzene	ND	0.82	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.82	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.82	1.00	
4-Chlorotoluene	ND	0.82	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.1	1.00	
1,2-Dibromoethane	ND	0.82	1.00	
Dibromomethane	ND	0.82	1.00	
1,2-Dichlorobenzene	ND	0.82	1.00	
1,3-Dichlorobenzene	ND	0.82	1.00	
1,4-Dichlorobenzene	ND	0.82	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.82	1.00	
1,2-Dichloroethane	ND	0.82	1.00	
1,1-Dichloroethene	ND	0.82	1.00	
c-1,2-Dichloroethene	ND	0.82	1.00	
t-1,2-Dichloroethene	ND	0.82	1.00	
1,2-Dichloropropane	ND	0.82	1.00	
1,3-Dichloropropane	ND	0.82	1.00	
2,2-Dichloropropane	ND	4.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 2 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.82	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.82	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.82	1.00	
p-Isopropyltoluene	ND	0.82	1.00	
Methylene Chloride	ND	8.2	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	8.2	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.82	1.00	
1,1,1,2-Tetrachloroethane	ND	0.82	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.82	1.00	
Toluene	ND	0.82	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.82	1.00	
1,1,2-Trichloroethane	ND	0.82	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	8.2	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	8.2	1.00	
Vinyl Chloride	ND	0.82	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.82	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.82	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.82	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.82	1.00	
Ethanol	ND	410	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	83	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 3 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	112	71-155	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 4 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-15	**19-04-0974-2-C**	**04/11/19 10:15**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 19:04**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.79	1.00	
Bromobenzene	ND	0.79	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.79	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.79	1.00	
sec-Butylbenzene	ND	0.79	1.00	
tert-Butylbenzene	ND	0.79	1.00	
Carbon Disulfide	ND	7.9	1.00	
Carbon Tetrachloride	ND	0.79	1.00	
Chlorobenzene	ND	0.79	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.79	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.79	1.00	
4-Chlorotoluene	ND	0.79	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.79	1.00	
Dibromomethane	ND	0.79	1.00	
1,2-Dichlorobenzene	ND	0.79	1.00	
1,3-Dichlorobenzene	ND	0.79	1.00	
1,4-Dichlorobenzene	ND	0.79	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.79	1.00	
1,2-Dichloroethane	ND	0.79	1.00	
1,1-Dichloroethene	ND	0.79	1.00	
c-1,2-Dichloroethene	ND	0.79	1.00	
t-1,2-Dichloroethene	ND	0.79	1.00	
1,2-Dichloropropane	ND	0.79	1.00	
1,3-Dichloropropane	ND	0.79	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 5 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.79	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.79	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.79	1.00	
p-Isopropyltoluene	ND	0.79	1.00	
Methylene Chloride	ND	7.9	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.9	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.79	1.00	
1,1,1,2-Tetrachloroethane	ND	0.79	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.79	1.00	
Toluene	ND	0.79	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.9	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.9	1.00	
Vinyl Chloride	ND	0.79	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.79	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	33	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.79	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.79	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.79	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 6 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	79-133	
1,2-Dichloroethane-d4	108	71-155	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 7 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**19-04-0974-3-C**	**04/11/19 09:40**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 19:31**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	33	1.00	
Benzene	ND	0.66	1.00	
Bromobenzene	ND	0.66	1.00	
Bromochloromethane	ND	1.3	1.00	
Bromodichloromethane	ND	0.66	1.00	
Bromoform	ND	3.3	1.00	
Bromomethane	ND	13	1.00	
2-Butanone	ND	13	1.00	
n-Butylbenzene	ND	0.66	1.00	
sec-Butylbenzene	ND	0.66	1.00	
tert-Butylbenzene	ND	0.66	1.00	
Carbon Disulfide	ND	6.6	1.00	
Carbon Tetrachloride	ND	0.66	1.00	
Chlorobenzene	ND	0.66	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	0.66	1.00	
Chloromethane	ND	13	1.00	
2-Chlorotoluene	ND	0.66	1.00	
4-Chlorotoluene	ND	0.66	1.00	
Dibromochloromethane	ND	1.3	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.3	1.00	
1,2-Dibromoethane	ND	0.66	1.00	
Dibromomethane	ND	0.66	1.00	
1,2-Dichlorobenzene	ND	0.66	1.00	
1,3-Dichlorobenzene	ND	0.66	1.00	
1,4-Dichlorobenzene	ND	0.66	1.00	
Dichlorodifluoromethane	ND	1.3	1.00	
1,1-Dichloroethane	ND	0.66	1.00	
1,2-Dichloroethane	ND	0.66	1.00	
1,1-Dichloroethene	ND	0.66	1.00	
c-1,2-Dichloroethene	ND	0.66	1.00	
t-1,2-Dichloroethene	ND	0.66	1.00	
1,2-Dichloropropane	ND	0.66	1.00	
1,3-Dichloropropane	ND	0.66	1.00	
2,2-Dichloropropane	ND	3.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 8 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.3	1.00	
c-1,3-Dichloropropene	ND	0.66	1.00	
t-1,3-Dichloropropene	ND	1.3	1.00	
Ethylbenzene	ND	0.66	1.00	
2-Hexanone	ND	13	1.00	
Isopropylbenzene	ND	0.66	1.00	
p-Isopropyltoluene	ND	0.66	1.00	
Methylene Chloride	ND	6.6	1.00	
4-Methyl-2-Pentanone	ND	13	1.00	
Naphthalene	ND	6.6	1.00	
n-Propylbenzene	ND	1.3	1.00	
Styrene	ND	0.66	1.00	
1,1,1,2-Tetrachloroethane	ND	0.66	1.00	
1,1,2,2-Tetrachloroethane	ND	1.3	1.00	
Tetrachloroethene	ND	0.66	1.00	
Toluene	ND	0.66	1.00	
1,2,3-Trichlorobenzene	ND	1.3	1.00	
1,2,4-Trichlorobenzene	ND	1.3	1.00	
1,1,1-Trichloroethane	ND	0.66	1.00	
1,1,2-Trichloroethane	ND	0.66	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	6.6	1.00	
Trichloroethene	ND	1.3	1.00	
Trichlorofluoromethane	ND	6.6	1.00	
1,2,3-Trichloropropane	ND	1.3	1.00	
1,2,4-Trimethylbenzene	ND	1.3	1.00	
1,3,5-Trimethylbenzene	ND	1.3	1.00	
Vinyl Acetate	ND	6.6	1.00	
Vinyl Chloride	ND	0.66	1.00	
p/m-Xylene	ND	1.3	1.00	
o-Xylene	ND	0.66	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.3	1.00	
Tert-Butyl Alcohol (TBA)	ND	13	1.00	
Diisopropyl Ether (DIPE)	ND	0.66	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.66	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.66	1.00	
Ethanol	ND	330	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	84	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 9 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	79-133	
1,2-Dichloroethane-d4	116	71-155	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 10 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-2	**19-04-0974-5-C**	**04/11/19 11:15**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 19:58**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	28	1.00	
Benzene	ND	0.56	1.00	
Bromobenzene	ND	0.56	1.00	
Bromochloromethane	ND	1.1	1.00	
Bromodichloromethane	ND	0.56	1.00	
Bromoform	ND	2.8	1.00	
Bromomethane	ND	11	1.00	
2-Butanone	ND	11	1.00	
n-Butylbenzene	ND	0.56	1.00	
sec-Butylbenzene	ND	0.56	1.00	
tert-Butylbenzene	ND	0.56	1.00	
Carbon Disulfide	ND	5.6	1.00	
Carbon Tetrachloride	ND	0.56	1.00	
Chlorobenzene	ND	0.56	1.00	
Chloroethane	ND	1.1	1.00	
Chloroform	ND	0.56	1.00	
Chloromethane	ND	11	1.00	
2-Chlorotoluene	ND	0.56	1.00	
4-Chlorotoluene	ND	0.56	1.00	
Dibromochloromethane	ND	1.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	2.8	1.00	
1,2-Dibromoethane	ND	0.56	1.00	
Dibromomethane	ND	0.56	1.00	
1,2-Dichlorobenzene	ND	0.56	1.00	
1,3-Dichlorobenzene	ND	0.56	1.00	
1,4-Dichlorobenzene	ND	0.56	1.00	
Dichlorodifluoromethane	ND	1.1	1.00	
1,1-Dichloroethane	ND	0.56	1.00	
1,2-Dichloroethane	ND	0.56	1.00	
1,1-Dichloroethene	ND	0.56	1.00	
c-1,2-Dichloroethene	ND	0.56	1.00	
t-1,2-Dichloroethene	ND	0.56	1.00	
1,2-Dichloropropane	ND	0.56	1.00	
1,3-Dichloropropane	ND	0.56	1.00	
2,2-Dichloropropane	ND	2.8	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 11 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.1	1.00	
c-1,3-Dichloropropene	ND	0.56	1.00	
t-1,3-Dichloropropene	ND	1.1	1.00	
Ethylbenzene	ND	0.56	1.00	
2-Hexanone	ND	11	1.00	
Isopropylbenzene	ND	0.56	1.00	
p-Isopropyltoluene	ND	0.56	1.00	
Methylene Chloride	ND	5.6	1.00	
4-Methyl-2-Pentanone	ND	11	1.00	
Naphthalene	ND	5.6	1.00	
n-Propylbenzene	ND	1.1	1.00	
Styrene	ND	0.56	1.00	
1,1,1,2-Tetrachloroethane	ND	0.56	1.00	
1,1,2,2-Tetrachloroethane	ND	1.1	1.00	
Tetrachloroethene	ND	0.56	1.00	
Toluene	ND	0.56	1.00	
1,2,3-Trichlorobenzene	ND	1.1	1.00	
1,2,4-Trichlorobenzene	ND	1.1	1.00	
1,1,1-Trichloroethane	ND	0.56	1.00	
1,1,2-Trichloroethane	ND	0.56	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.6	1.00	
Trichloroethene	ND	1.1	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,2,3-Trichloropropane	ND	1.1	1.00	
1,2,4-Trimethylbenzene	ND	1.1	1.00	
1,3,5-Trimethylbenzene	ND	1.1	1.00	
Vinyl Acetate	ND	5.6	1.00	
Vinyl Chloride	ND	0.56	1.00	
p/m-Xylene	ND	1.1	1.00	
o-Xylene	ND	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	11	1.00	
Diisopropyl Ether (DIPE)	ND	0.56	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.56	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.56	1.00	
Ethanol	ND	280	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	83	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 12 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	116	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 13 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**19-04-0974-7-C**	**04/11/19 10:40**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 20:25**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	25	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	0.50	1.00	
Bromoform	ND	2.5	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	0.50	1.00	
sec-Butylbenzene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Carbon Disulfide	ND	5.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Chloroethane	ND	1.0	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	2.5	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	0.50	1.00	
t-1,2-Dichloroethene	ND	0.50	1.00	
1,2-Dichloropropane	ND	0.50	1.00	
1,3-Dichloropropane	ND	0.50	1.00	
2,2-Dichloropropane	ND	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 14 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	1.0	1.00	
Ethylbenzene	ND	0.50	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
Methylene Chloride	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	5.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	0.50	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	0.50	1.00	
Toluene	ND	0.50	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	5.0	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1.00	
Ethanol	ND	250	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	83	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 15 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	118	71-155	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 16 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-2	**19-04-0974-8-C**	**04/11/19 13:15**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 20:52**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	38	1.00	
Benzene	ND	0.75	1.00	
Bromobenzene	ND	0.75	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.75	1.00	
Bromoform	ND	3.8	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.75	1.00	
sec-Butylbenzene	ND	0.75	1.00	
tert-Butylbenzene	ND	0.75	1.00	
Carbon Disulfide	7.9	7.5	1.00	
Carbon Tetrachloride	ND	0.75	1.00	
Chlorobenzene	ND	0.75	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.75	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.75	1.00	
4-Chlorotoluene	ND	0.75	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.00	
1,2-Dibromoethane	ND	0.75	1.00	
Dibromomethane	ND	0.75	1.00	
1,2-Dichlorobenzene	ND	0.75	1.00	
1,3-Dichlorobenzene	ND	0.75	1.00	
1,4-Dichlorobenzene	ND	0.75	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.75	1.00	
1,2-Dichloroethane	ND	0.75	1.00	
1,1-Dichloroethene	ND	0.75	1.00	
c-1,2-Dichloroethene	ND	0.75	1.00	
t-1,2-Dichloroethene	ND	0.75	1.00	
1,2-Dichloropropane	ND	0.75	1.00	
1,3-Dichloropropane	ND	0.75	1.00	
2,2-Dichloropropane	ND	3.8	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 17 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.75	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.75	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.75	1.00	
p-Isopropyltoluene	ND	0.75	1.00	
Methylene Chloride	ND	7.5	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.5	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.75	1.00	
1,1,1,2-Tetrachloroethane	ND	0.75	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.75	1.00	
Toluene	ND	0.75	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.75	1.00	
1,1,2-Trichloroethane	ND	0.75	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.5	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.5	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.5	1.00	
Vinyl Chloride	ND	0.75	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.75	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.75	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.75	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.75	1.00	
Ethanol	ND	380	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	81	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 18 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	79-133	
1,2-Dichloroethane-d4	119	71-155	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 19 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-5	**19-04-0974-9-C**	**04/11/19 13:20**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 21:19**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.79	1.00	
Bromobenzene	ND	0.79	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.79	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.79	1.00	
sec-Butylbenzene	ND	0.79	1.00	
tert-Butylbenzene	ND	0.79	1.00	
Carbon Disulfide	ND	7.9	1.00	
Carbon Tetrachloride	ND	0.79	1.00	
Chlorobenzene	ND	0.79	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.79	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.79	1.00	
4-Chlorotoluene	ND	0.79	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.79	1.00	
Dibromomethane	ND	0.79	1.00	
1,2-Dichlorobenzene	ND	0.79	1.00	
1,3-Dichlorobenzene	ND	0.79	1.00	
1,4-Dichlorobenzene	ND	0.79	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.79	1.00	
1,2-Dichloroethane	ND	0.79	1.00	
1,1-Dichloroethene	ND	0.79	1.00	
c-1,2-Dichloroethene	ND	0.79	1.00	
t-1,2-Dichloroethene	ND	0.79	1.00	
1,2-Dichloropropane	ND	0.79	1.00	
1,3-Dichloropropane	ND	0.79	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 20 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.79	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.79	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.79	1.00	
p-Isopropyltoluene	ND	0.79	1.00	
Methylene Chloride	ND	7.9	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.9	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.79	1.00	
1,1,1,2-Tetrachloroethane	ND	0.79	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.79	1.00	
Toluene	ND	0.79	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.9	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.9	1.00	
Vinyl Chloride	ND	0.79	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.79	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.79	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.79	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.79	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 21 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	79-133	
1,2-Dichloroethane-d4	119	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 22 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-10	**19-04-0974-10-C**	**04/11/19 13:30**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 21:46**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	40	1.00	
Benzene	ND	0.81	1.00	
Bromobenzene	ND	0.81	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.81	1.00	
Bromoform	ND	4.0	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.81	1.00	
sec-Butylbenzene	ND	0.81	1.00	
tert-Butylbenzene	ND	0.81	1.00	
Carbon Disulfide	ND	8.1	1.00	
Carbon Tetrachloride	ND	0.81	1.00	
Chlorobenzene	ND	0.81	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.81	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.81	1.00	
4-Chlorotoluene	ND	0.81	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.00	
1,2-Dibromoethane	ND	0.81	1.00	
Dibromomethane	ND	0.81	1.00	
1,2-Dichlorobenzene	ND	0.81	1.00	
1,3-Dichlorobenzene	ND	0.81	1.00	
1,4-Dichlorobenzene	ND	0.81	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.81	1.00	
1,2-Dichloroethane	ND	0.81	1.00	
1,1-Dichloroethene	ND	0.81	1.00	
c-1,2-Dichloroethene	ND	0.81	1.00	
t-1,2-Dichloroethene	ND	0.81	1.00	
1,2-Dichloropropane	ND	0.81	1.00	
1,3-Dichloropropane	ND	0.81	1.00	
2,2-Dichloropropane	ND	4.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 23 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.81	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.81	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.81	1.00	
p-Isopropyltoluene	ND	0.81	1.00	
Methylene Chloride	ND	8.1	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	8.1	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.81	1.00	
1,1,1,2-Tetrachloroethane	ND	0.81	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.81	1.00	
Toluene	ND	0.81	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.81	1.00	
1,1,2-Trichloroethane	ND	0.81	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.1	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	8.1	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	8.1	1.00	
Vinyl Chloride	ND	0.81	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.81	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.81	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.81	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.81	1.00	
Ethanol	ND	400	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 24 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	79-133	
1,2-Dichloroethane-d4	122	71-155	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 25 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-2	**19-04-0974-11-D**	**04/11/19 11:20**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 15:15**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	37	1.00	
Benzene	ND	0.73	1.00	
Bromobenzene	ND	0.73	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.73	1.00	
Bromoform	ND	3.7	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.73	1.00	
sec-Butylbenzene	ND	0.73	1.00	
tert-Butylbenzene	ND	0.73	1.00	
Carbon Disulfide	25	7.3	1.00	
Carbon Tetrachloride	ND	0.73	1.00	
Chlorobenzene	ND	0.73	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.73	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.73	1.00	
4-Chlorotoluene	ND	0.73	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.00	
1,2-Dibromoethane	ND	0.73	1.00	
Dibromomethane	ND	0.73	1.00	
1,2-Dichlorobenzene	ND	0.73	1.00	
1,3-Dichlorobenzene	ND	0.73	1.00	
1,4-Dichlorobenzene	ND	0.73	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.73	1.00	
1,2-Dichloroethane	ND	0.73	1.00	
1,1-Dichloroethene	ND	0.73	1.00	
c-1,2-Dichloroethene	ND	0.73	1.00	
t-1,2-Dichloroethene	ND	0.73	1.00	
1,2-Dichloropropane	ND	0.73	1.00	
1,3-Dichloropropane	ND	0.73	1.00	
2,2-Dichloropropane	ND	3.7	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 26 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.73	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.73	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.73	1.00	
p-Isopropyltoluene	ND	0.73	1.00	
Methylene Chloride	ND	7.3	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.3	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.73	1.00	
1,1,1,2-Tetrachloroethane	ND	0.73	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.73	1.00	
Toluene	ND	0.73	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.73	1.00	
1,1,2-Trichloroethane	ND	0.73	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.3	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.3	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.3	1.00	
Vinyl Chloride	ND	0.73	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.73	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.73	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.73	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.73	1.00	
Ethanol	ND	370	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 27 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 28 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-5	**19-04-0974-12-C**	**04/11/19 11:25**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/16/19 22:39**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	ND	0.84	1.00	
Bromobenzene	ND	0.84	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.84	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.84	1.00	
sec-Butylbenzene	ND	0.84	1.00	
tert-Butylbenzene	ND	0.84	1.00	
Carbon Disulfide	ND	8.4	1.00	
Carbon Tetrachloride	ND	0.84	1.00	
Chlorobenzene	ND	0.84	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.84	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.84	1.00	
4-Chlorotoluene	ND	0.84	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.84	1.00	
Dibromomethane	ND	0.84	1.00	
1,2-Dichlorobenzene	ND	0.84	1.00	
1,3-Dichlorobenzene	ND	0.84	1.00	
1,4-Dichlorobenzene	ND	0.84	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.84	1.00	
1,2-Dichloroethane	ND	0.84	1.00	
1,1-Dichloroethene	ND	0.84	1.00	
c-1,2-Dichloroethene	ND	0.84	1.00	
t-1,2-Dichloroethene	ND	0.84	1.00	
1,2-Dichloropropane	ND	0.84	1.00	
1,3-Dichloropropane	ND	0.84	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 29 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.84	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.84	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.84	1.00	
p-Isopropyltoluene	ND	0.84	1.00	
Methylene Chloride	ND	8.4	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.4	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.84	1.00	
1,1,1,2-Tetrachloroethane	ND	0.84	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.84	1.00	
Toluene	ND	0.84	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.4	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.4	1.00	
Vinyl Chloride	ND	0.84	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.84	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.84	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.84	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.84	1.00	
Ethanol	ND	420	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	81	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 30 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	120	71-155	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 31 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-10	**19-04-0974-13-D**	**04/11/19 11:45**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 15:42**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	36	1.00	
Benzene	0.82	0.71	1.00	
Bromobenzene	ND	0.71	1.00	
Bromochloromethane	ND	1.4	1.00	
Bromodichloromethane	ND	0.71	1.00	
Bromoform	ND	3.6	1.00	
Bromomethane	ND	14	1.00	
2-Butanone	ND	14	1.00	
n-Butylbenzene	ND	0.71	1.00	
sec-Butylbenzene	ND	0.71	1.00	
tert-Butylbenzene	ND	0.71	1.00	
Carbon Disulfide	51	7.1	1.00	
Carbon Tetrachloride	ND	0.71	1.00	
Chlorobenzene	ND	0.71	1.00	
Chloroethane	ND	1.4	1.00	
Chloroform	ND	0.71	1.00	
Chloromethane	ND	14	1.00	
2-Chlorotoluene	ND	0.71	1.00	
4-Chlorotoluene	ND	0.71	1.00	
Dibromochloromethane	ND	1.4	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.6	1.00	
1,2-Dibromoethane	ND	0.71	1.00	
Dibromomethane	ND	0.71	1.00	
1,2-Dichlorobenzene	ND	0.71	1.00	
1,3-Dichlorobenzene	ND	0.71	1.00	
1,4-Dichlorobenzene	ND	0.71	1.00	
Dichlorodifluoromethane	ND	1.4	1.00	
1,1-Dichloroethane	ND	0.71	1.00	
1,2-Dichloroethane	ND	0.71	1.00	
1,1-Dichloroethene	ND	0.71	1.00	
c-1,2-Dichloroethene	ND	0.71	1.00	
t-1,2-Dichloroethene	ND	0.71	1.00	
1,2-Dichloropropane	ND	0.71	1.00	
1,3-Dichloropropane	ND	0.71	1.00	
2,2-Dichloropropane	ND	3.6	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 32 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.4	1.00	
c-1,3-Dichloropropene	ND	0.71	1.00	
t-1,3-Dichloropropene	ND	1.4	1.00	
Ethylbenzene	ND	0.71	1.00	
2-Hexanone	ND	14	1.00	
Isopropylbenzene	ND	0.71	1.00	
p-Isopropyltoluene	ND	0.71	1.00	
Methylene Chloride	ND	7.1	1.00	
4-Methyl-2-Pentanone	ND	14	1.00	
Naphthalene	ND	7.1	1.00	
n-Propylbenzene	ND	1.4	1.00	
Styrene	ND	0.71	1.00	
1,1,1,2-Tetrachloroethane	ND	0.71	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	1.00	
Tetrachloroethene	ND	0.71	1.00	
Toluene	ND	0.71	1.00	
1,2,3-Trichlorobenzene	ND	1.4	1.00	
1,2,4-Trichlorobenzene	ND	1.4	1.00	
1,1,1-Trichloroethane	ND	0.71	1.00	
1,1,2-Trichloroethane	ND	0.71	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.1	1.00	
Trichloroethene	ND	1.4	1.00	
Trichlorofluoromethane	ND	7.1	1.00	
1,2,3-Trichloropropane	ND	1.4	1.00	
1,2,4-Trimethylbenzene	ND	1.4	1.00	
1,3,5-Trimethylbenzene	ND	1.4	1.00	
Vinyl Acetate	ND	7.1	1.00	
Vinyl Chloride	ND	0.71	1.00	
p/m-Xylene	ND	1.4	1.00	
o-Xylene	ND	0.71	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	1.00	
Diisopropyl Ether (DIPE)	ND	0.71	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.71	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.71	1.00	
Ethanol	ND	360	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 33 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 34 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-15	**19-04-0974-14-D**	**04/11/19 12:00**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 16:09**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	ND	0.83	1.00	
Bromobenzene	ND	0.83	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.83	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.83	1.00	
sec-Butylbenzene	ND	0.83	1.00	
tert-Butylbenzene	ND	0.83	1.00	
Carbon Disulfide	ND	8.3	1.00	
Carbon Tetrachloride	ND	0.83	1.00	
Chlorobenzene	ND	0.83	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.83	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.83	1.00	
4-Chlorotoluene	ND	0.83	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.83	1.00	
Dibromomethane	ND	0.83	1.00	
1,2-Dichlorobenzene	ND	0.83	1.00	
1,3-Dichlorobenzene	ND	0.83	1.00	
1,4-Dichlorobenzene	ND	0.83	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.83	1.00	
1,2-Dichloroethane	ND	0.83	1.00	
1,1-Dichloroethene	ND	0.83	1.00	
c-1,2-Dichloroethene	ND	0.83	1.00	
t-1,2-Dichloroethene	ND	0.83	1.00	
1,2-Dichloropropane	ND	0.83	1.00	
1,3-Dichloropropane	ND	0.83	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 35 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.83	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.83	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.83	1.00	
p-Isopropyltoluene	ND	0.83	1.00	
Methylene Chloride	ND	8.3	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.3	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.83	1.00	
1,1,1,2-Tetrachloroethane	ND	0.83	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.83	1.00	
Toluene	ND	0.83	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.83	1.00	
1,1,2-Trichloroethane	ND	0.83	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.3	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.3	1.00	
Vinyl Chloride	ND	0.83	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.83	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.83	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.83	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.83	1.00	
Ethanol	ND	420	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 36 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 37 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-10	**19-04-0974-15-D**	**04/11/19 08:00**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 16:37**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	36	1.00	
Benzene	ND	0.71	1.00	
Bromobenzene	ND	0.71	1.00	
Bromochloromethane	ND	1.4	1.00	
Bromodichloromethane	ND	0.71	1.00	
Bromoform	ND	3.6	1.00	
Bromomethane	ND	14	1.00	
2-Butanone	ND	14	1.00	
n-Butylbenzene	ND	0.71	1.00	
sec-Butylbenzene	ND	0.71	1.00	
tert-Butylbenzene	ND	0.71	1.00	
Carbon Disulfide	ND	7.1	1.00	
Carbon Tetrachloride	ND	0.71	1.00	
Chlorobenzene	ND	0.71	1.00	
Chloroethane	ND	1.4	1.00	
Chloroform	ND	0.71	1.00	
Chloromethane	ND	14	1.00	
2-Chlorotoluene	ND	0.71	1.00	
4-Chlorotoluene	ND	0.71	1.00	
Dibromochloromethane	ND	1.4	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.6	1.00	
1,2-Dibromoethane	ND	0.71	1.00	
Dibromomethane	ND	0.71	1.00	
1,2-Dichlorobenzene	ND	0.71	1.00	
1,3-Dichlorobenzene	ND	0.71	1.00	
1,4-Dichlorobenzene	ND	0.71	1.00	
Dichlorodifluoromethane	ND	1.4	1.00	
1,1-Dichloroethane	ND	0.71	1.00	
1,2-Dichloroethane	ND	0.71	1.00	
1,1-Dichloroethene	ND	0.71	1.00	
c-1,2-Dichloroethene	ND	0.71	1.00	
t-1,2-Dichloroethene	ND	0.71	1.00	
1,2-Dichloropropane	ND	0.71	1.00	
1,3-Dichloropropane	ND	0.71	1.00	
2,2-Dichloropropane	ND	3.6	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 38 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.4	1.00	
c-1,3-Dichloropropene	ND	0.71	1.00	
t-1,3-Dichloropropene	ND	1.4	1.00	
Ethylbenzene	ND	0.71	1.00	
2-Hexanone	ND	14	1.00	
Isopropylbenzene	ND	0.71	1.00	
p-Isopropyltoluene	ND	0.71	1.00	
Methylene Chloride	ND	7.1	1.00	
4-Methyl-2-Pentanone	ND	14	1.00	
Naphthalene	ND	7.1	1.00	
n-Propylbenzene	ND	1.4	1.00	
Styrene	ND	0.71	1.00	
1,1,1,2-Tetrachloroethane	ND	0.71	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	1.00	
Tetrachloroethene	ND	0.71	1.00	
Toluene	ND	0.71	1.00	
1,2,3-Trichlorobenzene	ND	1.4	1.00	
1,2,4-Trichlorobenzene	ND	1.4	1.00	
1,1,1-Trichloroethane	ND	0.71	1.00	
1,1,2-Trichloroethane	ND	0.71	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.1	1.00	
Trichloroethene	ND	1.4	1.00	
Trichlorofluoromethane	ND	7.1	1.00	
1,2,3-Trichloropropane	ND	1.4	1.00	
1,2,4-Trimethylbenzene	ND	1.4	1.00	
1,3,5-Trimethylbenzene	ND	1.4	1.00	
Vinyl Acetate	ND	7.1	1.00	
Vinyl Chloride	ND	0.71	1.00	
p/m-Xylene	ND	1.4	1.00	
o-Xylene	ND	0.71	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	1.00	
Diisopropyl Ether (DIPE)	ND	0.71	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.71	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.71	1.00	
Ethanol	ND	360	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 39 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	94	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 40 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-15	**19-04-0974-16-D**	**04/11/19 08:10**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 17:04**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.78	1.00	
Bromobenzene	ND	0.78	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.78	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.78	1.00	
sec-Butylbenzene	ND	0.78	1.00	
tert-Butylbenzene	ND	0.78	1.00	
Carbon Disulfide	ND	7.8	1.00	
Carbon Tetrachloride	ND	0.78	1.00	
Chlorobenzene	ND	0.78	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.78	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.78	1.00	
4-Chlorotoluene	ND	0.78	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.78	1.00	
Dibromomethane	ND	0.78	1.00	
1,2-Dichlorobenzene	ND	0.78	1.00	
1,3-Dichlorobenzene	ND	0.78	1.00	
1,4-Dichlorobenzene	ND	0.78	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.78	1.00	
1,2-Dichloroethane	ND	0.78	1.00	
1,1-Dichloroethene	ND	0.78	1.00	
c-1,2-Dichloroethene	ND	0.78	1.00	
t-1,2-Dichloroethene	ND	0.78	1.00	
1,2-Dichloropropane	ND	0.78	1.00	
1,3-Dichloropropane	ND	0.78	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 41 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.78	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.78	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.78	1.00	
p-Isopropyltoluene	ND	0.78	1.00	
Methylene Chloride	ND	7.8	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.8	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.78	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.78	1.00	
Toluene	ND	0.78	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.8	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.8	1.00	
Vinyl Chloride	ND	0.78	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.78	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.78	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 42 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 43 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-20	**19-04-0974-17-C**	**04/11/19 08:15**	**Solid**	**GC/MS GGG**	**04/11/19**	**04/17/19 00:54**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	35	1.00	
Benzene	ND	0.71	1.00	
Bromobenzene	ND	0.71	1.00	
Bromochloromethane	ND	1.4	1.00	
Bromodichloromethane	ND	0.71	1.00	
Bromoform	ND	3.5	1.00	
Bromomethane	ND	14	1.00	
2-Butanone	ND	14	1.00	
n-Butylbenzene	ND	0.71	1.00	
sec-Butylbenzene	ND	0.71	1.00	
tert-Butylbenzene	ND	0.71	1.00	
Carbon Disulfide	ND	7.1	1.00	
Carbon Tetrachloride	ND	0.71	1.00	
Chlorobenzene	ND	0.71	1.00	
Chloroethane	ND	1.4	1.00	
Chloroform	ND	0.71	1.00	
Chloromethane	ND	14	1.00	
2-Chlorotoluene	ND	0.71	1.00	
4-Chlorotoluene	ND	0.71	1.00	
Dibromochloromethane	ND	1.4	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.5	1.00	
1,2-Dibromoethane	ND	0.71	1.00	
Dibromomethane	ND	0.71	1.00	
1,2-Dichlorobenzene	ND	0.71	1.00	
1,3-Dichlorobenzene	ND	0.71	1.00	
1,4-Dichlorobenzene	ND	0.71	1.00	
Dichlorodifluoromethane	ND	1.4	1.00	
1,1-Dichloroethane	ND	0.71	1.00	
1,2-Dichloroethane	ND	0.71	1.00	
1,1-Dichloroethene	ND	0.71	1.00	
c-1,2-Dichloroethene	ND	0.71	1.00	
t-1,2-Dichloroethene	ND	0.71	1.00	
1,2-Dichloropropane	ND	0.71	1.00	
1,3-Dichloropropane	ND	0.71	1.00	
2,2-Dichloropropane	ND	3.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 44 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.4	1.00	
c-1,3-Dichloropropene	ND	0.71	1.00	
t-1,3-Dichloropropene	ND	1.4	1.00	
Ethylbenzene	ND	0.71	1.00	
2-Hexanone	ND	14	1.00	
Isopropylbenzene	ND	0.71	1.00	
p-Isopropyltoluene	ND	0.71	1.00	
Methylene Chloride	ND	7.1	1.00	
4-Methyl-2-Pentanone	ND	14	1.00	
Naphthalene	ND	7.1	1.00	
n-Propylbenzene	ND	1.4	1.00	
Styrene	ND	0.71	1.00	
1,1,1,2-Tetrachloroethane	ND	0.71	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	1.00	
Tetrachloroethene	ND	0.71	1.00	
Toluene	ND	0.71	1.00	
1,2,3-Trichlorobenzene	ND	1.4	1.00	
1,2,4-Trichlorobenzene	ND	1.4	1.00	
1,1,1-Trichloroethane	ND	0.71	1.00	
1,1,2-Trichloroethane	ND	0.71	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.1	1.00	
Trichloroethene	ND	1.4	1.00	
Trichlorofluoromethane	ND	7.1	1.00	
1,2,3-Trichloropropane	ND	1.4	1.00	
1,2,4-Trimethylbenzene	ND	1.4	1.00	
1,3,5-Trimethylbenzene	ND	1.4	1.00	
Vinyl Acetate	ND	7.1	1.00	
Vinyl Chloride	ND	0.71	1.00	
p/m-Xylene	ND	1.4	1.00	
o-Xylene	ND	0.71	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	1.00	
Diisopropyl Ether (DIPE)	ND	0.71	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.71	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.71	1.00	
Ethanol	ND	350	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 45 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	110	79-133	
1,2-Dichloroethane-d4	127	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 46 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-25	**19-04-0974-18-E**	**04/11/19 08:30**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 17:32**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.77	1.00	
Bromobenzene	ND	0.77	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.77	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.77	1.00	
sec-Butylbenzene	ND	0.77	1.00	
tert-Butylbenzene	ND	0.77	1.00	
Carbon Disulfide	ND	7.7	1.00	
Carbon Tetrachloride	ND	0.77	1.00	
Chlorobenzene	ND	0.77	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.77	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.77	1.00	
4-Chlorotoluene	ND	0.77	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.77	1.00	
Dibromomethane	ND	0.77	1.00	
1,2-Dichlorobenzene	ND	0.77	1.00	
1,3-Dichlorobenzene	ND	0.77	1.00	
1,4-Dichlorobenzene	ND	0.77	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.77	1.00	
1,2-Dichloroethane	ND	0.77	1.00	
1,1-Dichloroethene	ND	0.77	1.00	
c-1,2-Dichloroethene	ND	0.77	1.00	
t-1,2-Dichloroethene	ND	0.77	1.00	
1,2-Dichloropropane	ND	0.77	1.00	
1,3-Dichloropropane	ND	0.77	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 47 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.77	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.77	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.77	1.00	
p-Isopropyltoluene	ND	0.77	1.00	
Methylene Chloride	ND	7.7	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.7	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.77	1.00	
1,1,1,2-Tetrachloroethane	ND	0.77	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.77	1.00	
Toluene	ND	0.77	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.77	1.00	
1,1,2-Trichloroethane	ND	0.77	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.7	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.7	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.7	1.00	
Vinyl Chloride	ND	0.77	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.77	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.77	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.77	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.77	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 48 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 49 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-2	**19-04-0974-19-D**	**04/11/19 09:30**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 17:59**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	37	1.00	
Benzene	ND	0.74	1.00	
Bromobenzene	ND	0.74	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.74	1.00	
Bromoform	ND	3.7	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.74	1.00	
sec-Butylbenzene	ND	0.74	1.00	
tert-Butylbenzene	ND	0.74	1.00	
Carbon Disulfide	24	7.4	1.00	
Carbon Tetrachloride	ND	0.74	1.00	
Chlorobenzene	ND	0.74	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.74	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.74	1.00	
4-Chlorotoluene	ND	0.74	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.00	
1,2-Dibromoethane	ND	0.74	1.00	
Dibromomethane	ND	0.74	1.00	
1,2-Dichlorobenzene	ND	0.74	1.00	
1,3-Dichlorobenzene	ND	0.74	1.00	
1,4-Dichlorobenzene	ND	0.74	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.74	1.00	
1,2-Dichloroethane	ND	0.74	1.00	
1,1-Dichloroethene	ND	0.74	1.00	
c-1,2-Dichloroethene	ND	0.74	1.00	
t-1,2-Dichloroethene	ND	0.74	1.00	
1,2-Dichloropropane	ND	0.74	1.00	
1,3-Dichloropropane	ND	0.74	1.00	
2,2-Dichloropropane	ND	3.7	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 50 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.74	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.74	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.74	1.00	
p-Isopropyltoluene	ND	0.74	1.00	
Methylene Chloride	ND	7.4	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.4	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.74	1.00	
1,1,1,2-Tetrachloroethane	ND	0.74	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.74	1.00	
Toluene	ND	0.74	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.74	1.00	
1,1,2-Trichloroethane	ND	0.74	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.4	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.4	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.4	1.00	
Vinyl Chloride	ND	0.74	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.74	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.74	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.74	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.74	1.00	
Ethanol	ND	370	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 51 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	103	71-155	
Toluene-d8	94	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 52 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-5	**19-04-0974-20-D**	**04/11/19 09:40**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 18:26**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	37	1.00	
Benzene	ND	0.73	1.00	
Bromobenzene	ND	0.73	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.73	1.00	
Bromoform	ND	3.7	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.73	1.00	
sec-Butylbenzene	ND	0.73	1.00	
tert-Butylbenzene	ND	0.73	1.00	
Carbon Disulfide	ND	7.3	1.00	
Carbon Tetrachloride	ND	0.73	1.00	
Chlorobenzene	ND	0.73	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.73	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.73	1.00	
4-Chlorotoluene	ND	0.73	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.00	
1,2-Dibromoethane	ND	0.73	1.00	
Dibromomethane	ND	0.73	1.00	
1,2-Dichlorobenzene	ND	0.73	1.00	
1,3-Dichlorobenzene	ND	0.73	1.00	
1,4-Dichlorobenzene	ND	0.73	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.73	1.00	
1,2-Dichloroethane	ND	0.73	1.00	
1,1-Dichloroethene	ND	0.73	1.00	
c-1,2-Dichloroethene	ND	0.73	1.00	
t-1,2-Dichloroethene	ND	0.73	1.00	
1,2-Dichloropropane	ND	0.73	1.00	
1,3-Dichloropropane	ND	0.73	1.00	
2,2-Dichloropropane	ND	3.7	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 53 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.73	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.73	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.73	1.00	
p-Isopropyltoluene	ND	0.73	1.00	
Methylene Chloride	ND	7.3	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.3	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.73	1.00	
1,1,1,2-Tetrachloroethane	ND	0.73	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.73	1.00	
Toluene	ND	0.73	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.73	1.00	
1,1,2-Trichloroethane	ND	0.73	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.3	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.3	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.3	1.00	
Vinyl Chloride	ND	0.73	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.73	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.73	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.73	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.73	1.00	
Ethanol	ND	370	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 54 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	96	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 55 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-15	**19-04-0974-21-D**	**04/11/19 14:00**	**Solid**	**GC/MS R**	**04/11/19**	**04/17/19 18:53**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.77	1.00	
Bromobenzene	ND	0.77	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.77	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.77	1.00	
sec-Butylbenzene	ND	0.77	1.00	
tert-Butylbenzene	ND	0.77	1.00	
Carbon Disulfide	ND	7.7	1.00	
Carbon Tetrachloride	ND	0.77	1.00	
Chlorobenzene	ND	0.77	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.77	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.77	1.00	
4-Chlorotoluene	ND	0.77	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.77	1.00	
Dibromomethane	ND	0.77	1.00	
1,2-Dichlorobenzene	ND	0.77	1.00	
1,3-Dichlorobenzene	ND	0.77	1.00	
1,4-Dichlorobenzene	ND	0.77	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.77	1.00	
1,2-Dichloroethane	ND	0.77	1.00	
1,1-Dichloroethene	ND	0.77	1.00	
c-1,2-Dichloroethene	ND	0.77	1.00	
t-1,2-Dichloroethene	ND	0.77	1.00	
1,2-Dichloropropane	ND	0.77	1.00	
1,3-Dichloropropane	ND	0.77	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 56 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.77	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.77	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.77	1.00	
p-Isopropyltoluene	ND	0.77	1.00	
Methylene Chloride	ND	7.7	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.7	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.77	1.00	
1,1,1,2-Tetrachloroethane	ND	0.77	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.77	1.00	
Toluene	ND	0.77	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.77	1.00	
1,1,2-Trichloroethane	ND	0.77	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.7	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.7	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.7	1.00	
Vinyl Chloride	ND	0.77	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.77	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.77	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.77	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.77	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/11/19
1 Technology Drive, Suite C515	Work Order:	19-04-0974
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 57 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	100	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 58 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30952**	**N/A**	**Solid**	**GC/MS GGG**	**04/16/19**	**04/16/19 17:43**	**190416L037**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 59 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 60 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	91	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 61 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30959**	**N/A**	**Solid**	**GC/MS R**	**04/17/19**	**04/17/19 14:21**	**190417L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 62 of 63

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 63 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	79-133	
1,2-Dichloroethane-d4	89	71-155	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni / 1592.002			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-3-10	**Sample**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 19:59**	**190416S15**
SV-3-10	**Matrix Spike**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 12:48**	**190416S15**
SV-3-10	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 13:09**	**190416S15**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	414.3	104	421.6	105	64-130	2	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-1-10	**Sample**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:10**	**190415S03**
SV-1-10	**Matrix Spike**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:05**	**190415S03**
SV-1-10	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:06**	**190415S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.80	55	14.48	58	50-115	5	0-20	
Arsenic	ND	25.00	25.13	101	25.77	103	75-125	3	0-20	
Barium	73.97	25.00	98.24	97	87.07	52	75-125	12	0-20	3
Beryllium	0.2789	25.00	27.49	109	26.62	105	75-125	3	0-20	
Cadmium	ND	25.00	27.76	111	27.14	109	75-125	2	0-20	
Chromium	7.965	25.00	34.91	108	32.47	98	75-125	7	0-20	
Cobalt	4.824	25.00	30.75	104	29.90	100	75-125	3	0-20	
Copper	4.640	25.00	31.16	106	30.50	103	75-125	2	0-20	
Lead	ND	25.00	26.90	108	26.61	106	75-125	1	0-20	
Molybdenum	ND	25.00	25.82	103	25.43	102	75-125	2	0-20	
Nickel	5.735	25.00	33.45	111	32.27	106	75-125	4	0-20	
Selenium	ND	25.00	23.72	95	23.62	94	75-125	0	0-20	
Silver	ND	12.50	13.54	108	12.87	103	75-125	5	0-20	
Thallium	ND	25.00	25.93	104	24.75	99	75-125	5	0-20	
Vanadium	22.09	25.00	45.77	95	42.93	83	75-125	6	0-20	
Zinc	27.50	25.00	56.49	116	51.30	95	75-125	10	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Panattoni / 1592.002			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-1-10	**Sample**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:45**	**190416S02**
SV-1-10	**Matrix Spike**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:48**	**190416S02**
SV-1-10	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:50**	**190416S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7998	96	0.8063	97	71-137	1	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B3-2	**Sample**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 11:32**	**190416S09**
B3-2	**Matrix Spike**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 10:35**	**190416S09**
B3-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 10:49**	**190416S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.56	78	20.63	83	50-135	5	0-25	
Alpha-BHC	ND	25.00	19.61	78	20.69	83	50-135	5	0-25	
Beta-BHC	ND	25.00	20.46	82	21.62	86	50-135	6	0-25	
4,4'-DDD	ND	25.00	23.71	95	24.43	98	50-135	3	0-25	
4,4'-DDE	ND	25.00	22.46	90	23.47	94	50-135	4	0-25	
4,4'-DDT	ND	25.00	31.73	127	26.06	104	50-135	20	0-25	
Delta-BHC	ND	25.00	21.04	84	22.32	89	50-135	6	0-25	
Dieldrin	ND	25.00	21.68	87	23.06	92	50-135	6	0-25	
Endosulfan I	ND	25.00	21.67	87	22.88	92	50-135	5	0-25	
Endosulfan II	ND	25.00	22.99	92	24.32	97	50-135	6	0-25	
Endosulfan Sulfate	ND	25.00	23.60	94	25.08	100	50-135	6	0-25	
Endrin	ND	25.00	20.12	80	21.96	88	50-135	9	0-25	
Endrin Aldehyde	ND	25.00	17.95	72	20.43	82	50-135	13	0-25	
Gamma-BHC	ND	25.00	20.00	80	21.09	84	50-135	5	0-25	
Heptachlor	ND	25.00	20.66	83	21.87	87	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	20.64	83	21.70	87	50-135	5	0-25	
Methoxychlor	ND	25.00	24.09	96	25.72	103	50-135	7	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni / 1592.002			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-3570	**LCS**	**Solid**	**GC 48**	**04/16/19**	**04/17/19 12:26**	**190416B15**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	399.2	100	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27771	**LCS**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:01**	**190415L03**
097-01-002-27771	**LCSD**	**Solid**	**ICP 8300**	**04/15/19**	**04/18/19 14:03**	**190415L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	28.06	112	29.43	118	80-120	73-127	5	0-20	
Arsenic	25.00	26.90	108	28.47	114	80-120	73-127	6	0-20	
Barium	25.00	28.17	113	28.63	115	80-120	73-127	2	0-20	
Beryllium	25.00	25.91	104	26.41	106	80-120	73-127	2	0-20	
Cadmium	25.00	27.27	109	27.78	111	80-120	73-127	2	0-20	
Chromium	25.00	26.80	107	27.32	109	80-120	73-127	2	0-20	
Cobalt	25.00	26.48	106	27.58	110	80-120	73-127	4	0-20	
Copper	25.00	26.06	104	26.57	106	80-120	73-127	2	0-20	
Lead	25.00	27.17	109	28.14	113	80-120	73-127	4	0-20	
Molybdenum	25.00	26.14	105	27.26	109	80-120	73-127	4	0-20	
Nickel	25.00	28.23	113	29.41	118	80-120	73-127	4	0-20	
Selenium	25.00	25.30	101	25.33	101	80-120	73-127	0	0-20	
Silver	12.50	13.02	104	13.24	106	80-120	73-127	2	0-20	
Thallium	25.00	25.03	100	26.34	105	80-120	73-127	5	0-20	
Vanadium	25.00	26.46	106	26.96	108	80-120	73-127	2	0-20	
Zinc	25.00	27.60	110	28.76	115	80-120	73-127	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Panattoni / 1592.002			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4541	**LCS**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:43**	**190416L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7747	93	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3142	**LCS**	**Solid**	**GC 51**	**04/16/19**	**04/18/19 09:10**	**190416L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	25.22	101	50-135	36-149	
Alpha-BHC	25.00	25.46	102	50-135	36-149	
Beta-BHC	25.00	24.60	98	50-135	36-149	
4,4'-DDD	25.00	26.15	105	50-135	36-149	
4,4'-DDE	25.00	25.01	100	50-135	36-149	
4,4'-DDT	25.00	26.54	106	50-135	36-149	
Delta-BHC	25.00	25.44	102	50-135	36-149	
Dieldrin	25.00	26.16	105	50-135	36-149	
Endosulfan I	25.00	27.78	111	50-135	36-149	
Endosulfan II	25.00	26.40	106	50-135	36-149	
Endosulfan Sulfate	25.00	26.13	105	50-135	36-149	
Endrin	25.00	20.73	83	50-135	36-149	
Endrin Aldehyde	25.00	21.82	87	50-135	36-149	
Gamma-BHC	25.00	25.44	102	50-135	36-149	
Heptachlor	25.00	26.28	105	50-135	36-149	
Heptachlor Epoxide	25.00	25.29	101	50-135	36-149	
Methoxychlor	25.00	25.33	101	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Panattoni / 1592.002			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30959	**LCS**	**Solid**	**GC/MS R**	**04/17/19**	**04/17/19 13:00**	**190417L007**
095-01-025-30959	**LCSD**	**Solid**	**GC/MS R**	**04/17/19**	**04/17/19 13:27**	**190417L007**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.48	91	50.67	101	80-120	73-127	11	0-20	
Carbon Tetrachloride	50.00	45.60	91	51.27	103	65-137	53-149	12	0-20	
Chlorobenzene	50.00	48.05	96	53.22	106	80-120	73-127	10	0-20	
1,2-Dibromoethane	50.00	46.73	93	51.22	102	80-120	73-127	9	0-20	
1,2-Dichlorobenzene	50.00	49.55	99	55.17	110	80-120	73-127	11	0-20	
1,2-Dichloroethane	50.00	41.90	84	46.60	93	80-120	73-127	11	0-20	
1,1-Dichloroethene	50.00	45.24	90	50.64	101	68-128	58-138	11	0-20	
Ethylbenzene	50.00	47.61	95	53.56	107	80-120	73-127	12	0-20	
Toluene	50.00	44.12	88	49.83	100	80-120	73-127	12	0-20	
Trichloroethene	50.00	44.30	89	49.55	99	80-120	73-127	11	0-20	
Vinyl Chloride	50.00	48.15	96	56.07	112	67-127	57-137	15	0-20	
p/m-Xylene	100.0	95.14	95	107.0	107	75-125	67-133	12	0-25	
o-Xylene	50.00	49.52	99	55.11	110	75-125	67-133	11	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	38.89	78	42.61	85	70-124	61-133	9	0-20	
Tert-Butyl Alcohol (TBA)	250.0	246.0	98	261.3	105	73-121	65-129	6	0-20	
Diisopropyl Ether (DIPE)	50.00	46.10	92	51.13	102	69-129	59-139	10	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	41.83	84	46.43	93	70-124	61-133	10	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	39.32	79	43.49	87	74-122	66-130	10	0-20	
Ethanol	500.0	507.7	102	499.4	100	51-135	37-149	2	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/11/19
1 Technology Drive, Suite C515		Work Order:	19-04-0974
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Panattoni / 1592.002			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30952	**LCS**	**Solid**	**GC/MS GGG**	**04/16/19**	**04/16/19 16:04**	**190416L037**
095-01-025-30952	**LCSD**	**Solid**	**GC/MS GGG**	**04/16/19**	**04/16/19 16:31**	**190416L037**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.22	96	50.24	100	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	41.18	82	43.59	87	65-137	53-149	6	0-20	
Chlorobenzene	50.00	53.50	107	55.65	111	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	54.48	109	55.94	112	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	54.56	109	55.74	111	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	48.91	98	50.26	101	80-120	73-127	3	0-20	
1,1-Dichloroethene	50.00	42.39	85	45.60	91	68-128	58-138	7	0-20	
Ethylbenzene	50.00	54.66	109	57.04	114	80-120	73-127	4	0-20	
Toluene	50.00	49.43	99	52.12	104	80-120	73-127	5	0-20	
Trichloroethene	50.00	48.33	97	51.36	103	80-120	73-127	6	0-20	
Vinyl Chloride	50.00	50.94	102	50.51	101	67-127	57-137	1	0-20	
p/m-Xylene	100.0	113.4	113	118.8	119	75-125	67-133	5	0-25	
o-Xylene	50.00	57.05	114	59.23	118	75-125	67-133	4	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	34.30	69	36.28	73	70-124	61-133	6	0-20	ME
Tert-Butyl Alcohol (TBA)	250.0	268.8	108	275.7	110	73-121	65-129	3	0-20	
Diisopropyl Ether (DIPE)	50.00	42.60	85	44.69	89	69-129	59-139	5	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	35.81	72	37.84	76	70-124	61-133	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.06	96	49.33	99	74-122	66-130	3	0-20	
Ethanol	500.0	609.4	122	651.8	130	51-135	37-149	7	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-04-0974

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 8015B (M)	EPA 3550B	1028	GC 48	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8260B	EPA 5035	823	GC/MS R	2
EPA 8260B	EPA 5035	1192	GC/MS GGG	2

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Glossary of Terms and Qualifiers

Work Order: 19-04-0974 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN-OF-CUSTODY RECORD

[redacted]

DATE: 4/11/18
PAGE: 1 OF 3

LABORATORY CLIENT: Arcadis Environmental
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: CA ZIP:
TEL: (949) 296-0977 E-MAIL:
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD
EDD: ☐ COELT EDF ☐ OTHER
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) John Duhl

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ■ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) OCP	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
	SV-1-10	4/11/19	10:00	Soil	4						X			X							X					
	SV-1-15		10:15		4						X			X							X					
	B1-2		09:40		4						X			X				X			X					
	B1-5		10:00		4						X															
	B2-2		11:15		4						X			X				X			X					
	B2-5		11:20		4						X															
	B3-2		10:40		4						X			X				X			X					
	SV-3-2		13:15		4									X												
	SV-3-5		13:20		4									X												
	SV-3-10		13:30		4						X			X							X					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Dannyle [illegible]	4/11/19	16:41
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

DATE: 4/11/18
PAGE: 2 OF 3

WO NO. / LAB USE ONLY: [redacted]

LABORATORY CLIENT: Avocet Environmental, Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: CA ZIP:
TEL: E-MAIL:

CLIENT PROJECT NAME / NO.: Panama / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT) John Duec

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
	SV-2-2	4/11/19	11:20	Soil	4									X												
	SV-2-5		11:25		4									X												
	SV-2-10		11:45		4						X			X							X					
	SV-2-15		12:00		4						X			X							X					
	SV-5-10		08:00		4									X												
	SV-5-15		08:10		4									X												
	SV-5-20		08:15		4						X			X							X					
	SV-5-25		08:30		4						X			X							X					
	SV-1-2		09:30		4									X												
	SV-1-5		09:40		4									X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] EL	4/11/19	16:41
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

WO NO.: [redacted]

DATE: 4/11/19
PAGE: 3 OF 3

LABORATORY CLIENT: Anolex Environmental, Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine, CA STATE: ZIP:
TEL: E-MAIL:

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Saterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT) John Dohl

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
	SV-3-15	4/11/19	14:00	soil	4						X			X							X					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Dannyle G	4/11/19	16:41
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER NUMBER: 19-04-0974

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Avocet Envl

DATE: 04 / 11 / 2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): 4.8 °C (w/ CF): 4.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 619

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 619
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1163

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (12) ☐ EnCores® (___) ☑ TerraCores® (3) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: 619

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WORK ORDER NUMBER: 19-04-1095

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: Panattoni / 1592.002

Attention: Jessica Satterlee
1 Technology Drive
Suite C515
Irvine, CA 92618-5302

Approved for release on 04/22/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 19-04-1095

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Work Order Narrative

Work Order: 19-04-1095 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/12/19. They were assigned to Work Order 19-04-1095.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1095
		Project Name:	Panattoni / 1592.002
		PO Number:	
		Date/Time Received:	04/12/19 15:16
		Number of Containers:	56
Attn:	Jessica Satterlee		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SV-4-5	19-04-1095-1	04/12/19 07:50	4	Solid
SV-4-10	19-04-1095-2	04/12/19 07:55	4	Solid
SV-4-15	19-04-1095-3	04/12/19 08:00	4	Solid
SV-4-19	19-04-1095-4	04/12/19 08:20	4	Solid
B4-2	19-04-1095-5	04/12/19 09:15	4	Solid
B4-5	19-04-1095-6	04/12/19 09:20	4	Solid
B6-2	19-04-1095-7	04/12/19 10:40	4	Solid
B6-5	19-04-1095-8	04/12/19 11:00	4	Solid
B5-2	19-04-1095-9	04/12/19 10:15	4	Solid
B5-5	19-04-1095-10	04/12/19 10:20	4	Solid
B7-2	19-04-1095-11	04/12/19 12:15	4	Solid
B7-5	19-04-1095-12	04/12/19 12:30	4	Solid
B8-2	19-04-1095-13	04/12/19 12:40	4	Solid
B8-5	19-04-1095-14	04/12/19 12:45	4	Solid

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-1095 Panattoni / 1592.002 04/12/19
Attn:	Jessica Satterlee		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SV-4-15 (19-04-1095-3)						
Barium	69.4		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.360		0.253	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.59		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	6.87		0.505	mg/kg	EPA 6010B	EPA 3050B
Nickel	7.57		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	30.0		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	30.2		1.01	mg/kg	EPA 6010B	EPA 3050B
SV-4-19 (19-04-1095-4)						
Barium	156		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.366		0.250	mg/kg	EPA 6010B	EPA 3050B
Chromium	7.92		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.58		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	3.15		0.500	mg/kg	EPA 6010B	EPA 3050B
Nickel	5.05		0.250	mg/kg	EPA 6010B	EPA 3050B
Vanadium	25.2		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	31.9		1.00	mg/kg	EPA 6010B	EPA 3050B
B4-2 (19-04-1095-5)						
C6-C44 Total	5.0		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
4,4'-DDD	11		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	72		25	ug/kg	EPA 8081A	EPA 3545
B6-2 (19-04-1095-7)						
Benzene	1.0		0.83	ug/kg	EPA 8260B	EPA 5035
B5-2 (19-04-1095-9)						
Benzene	1.1		0.84	ug/kg	EPA 8260B	EPA 5035
B7-2 (19-04-1095-11)						
4,4'-DDD	5.2		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	30		5.0	ug/kg	EPA 8081A	EPA 3545

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* MDL is shown

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-1095 Panattoni / 1592.002 04/12/19
Attn:	Jessica Satterlee		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B8-2 (19-04-1095-13)						
C25-C28	20		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	21		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	17		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	12		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C41-C44	8.9		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	86		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
p-Isopropyltoluene	100		61	ug/kg	EPA 8260B	EPA 5035
Naphthalene	6900		610	ug/kg	EPA 8260B	EPA 5035
Toluene	100		61	ug/kg	EPA 8260B	EPA 5035
1,2,4-Trimethylbenzene	1200		120	ug/kg	EPA 8260B	EPA 5035
1,3,5-Trimethylbenzene	430		120	ug/kg	EPA 8260B	EPA 5035
p/m-Xylene	260		120	ug/kg	EPA 8260B	EPA 5035
o-Xylene	160		61	ug/kg	EPA 8260B	EPA 5035

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-15	**19-04-1095-3-A**	**04/12/19 08:00**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 10:47**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-19	**19-04-1095-4-A**	**04/12/19 08:20**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 11:08**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 3 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**19-04-1095-5-A**	**04/12/19 09:15**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 11:30**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	5.0	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 4 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-5	**19-04-1095-6-A**	**04/12/19 09:20**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 11:52**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 5 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-2	**19-04-1095-7-A**	**04/12/19 10:40**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 12:12**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 6 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-5	**19-04-1095-8-A**	**04/12/19 11:00**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 12:34**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 7 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-2	**19-04-1095-9-A**	**04/12/19 10:15**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 12:56**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 8 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-5	**19-04-1095-10-A**	**04/12/19 10:20**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 13:16**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 9 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-2	**19-04-1095-11-A**	**04/12/19 12:15**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 13:38**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 10 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-5	**19-04-1095-12-A**	**04/12/19 12:30**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 14:20**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 11 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2	**19-04-1095-13-A**	**04/12/19 12:40**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 14:41**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	20	4.9	1.00	
C29-C32	21	4.9	1.00	
C33-C36	17	4.9	1.00	
C37-C40	12	4.9	1.00	
C41-C44	8.9	4.9	1.00	
C6-C44 Total	86	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 12 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-5	**19-04-1095-14-A**	**04/12/19 12:45**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 15:03**	**190417B05**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 13 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-3571**	**N/A**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 06:12**	**190417B05**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-15	**19-04-1095-3-A**	**04/12/19 08:00**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:43**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	ND	0.758	1.01	
Barium	69.4	0.505	1.01	
Beryllium	0.360	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	20.7	0.253	1.01	
Cobalt	6.59	0.253	1.01	
Copper	6.87	0.505	1.01	
Lead	ND	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	7.57	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	30.0	0.253	1.01	
Zinc	30.2	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-19	**19-04-1095-4-A**	**04/12/19 08:20**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:48**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	156	0.500	1.00	
Beryllium	0.366	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	7.92	0.250	1.00	
Cobalt	5.58	0.250	1.00	
Copper	3.15	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	5.05	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	25.2	0.250	1.00	
Zinc	31.9	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27773**	**N/A**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:33**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	ND	0.721	0.962	
Barium	ND	0.481	0.962	
Beryllium	ND	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	ND	0.240	0.962	
Cobalt	ND	0.240	0.962	
Copper	ND	0.481	0.962	
Lead	ND	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	ND	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	ND	0.240	0.962	
Zinc	ND	0.962	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-15	**19-04-1095-3-A**	**04/12/19 08:00**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:26**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

SV-4-19	**19-04-1095-4-A**	**04/12/19 08:20**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 16:29**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Method Blank	**099-16-272-4541**	**N/A**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:41**	**190416L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**19-04-1095-5-A**	**04/12/19 09:15**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 16:42**	**190418L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	11	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	63	25-145	

B4-2	**19-04-1095-5-A**	**04/12/19 09:15**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 19:46**	**190418L14**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDT	72	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-2	**19-04-1095-7-A**	**04/12/19 10:40**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 14:09**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-2	**19-04-1095-9-A**	**04/12/19 10:15**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 14:23**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-2	**19-04-1095-11-A**	**04/12/19 12:15**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 14:37**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	5.2	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	30	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	67	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2	**19-04-1095-13-A**	**04/12/19 12:40**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 14:52**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3143**	**N/A**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 12:58**	**190417L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3144**	**N/A**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 13:37**	**190418L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 1 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-5	**19-04-1095-1-C**	**04/12/19 07:50**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 06:59**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	40	1.00	
Benzene	ND	0.80	1.00	
Bromobenzene	ND	0.80	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.80	1.00	
Bromoform	ND	4.0	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.80	1.00	
sec-Butylbenzene	ND	0.80	1.00	
tert-Butylbenzene	ND	0.80	1.00	
Carbon Disulfide	ND	8.0	1.00	
Carbon Tetrachloride	ND	0.80	1.00	
Chlorobenzene	ND	0.80	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.80	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.80	1.00	
4-Chlorotoluene	ND	0.80	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.00	
1,2-Dibromoethane	ND	0.80	1.00	
Dibromomethane	ND	0.80	1.00	
1,2-Dichlorobenzene	ND	0.80	1.00	
1,3-Dichlorobenzene	ND	0.80	1.00	
1,4-Dichlorobenzene	ND	0.80	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.80	1.00	
1,2-Dichloroethane	ND	0.80	1.00	
1,1-Dichloroethene	ND	0.80	1.00	
c-1,2-Dichloroethene	ND	0.80	1.00	
t-1,2-Dichloroethene	ND	0.80	1.00	
1,2-Dichloropropane	ND	0.80	1.00	
1,3-Dichloropropane	ND	0.80	1.00	
2,2-Dichloropropane	ND	4.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 2 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.80	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.80	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.80	1.00	
p-Isopropyltoluene	ND	0.80	1.00	
Methylene Chloride	ND	8.0	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	8.0	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.80	1.00	
1,1,1,2-Tetrachloroethane	ND	0.80	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.80	1.00	
Toluene	ND	0.80	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.80	1.00	
1,1,2-Trichloroethane	ND	0.80	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	8.0	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	8.0	1.00	
Vinyl Chloride	ND	0.80	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.80	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.80	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.80	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.80	1.00	
Ethanol	ND	400	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/12/19
1 Technology Drive, Suite C515	Work Order:	19-04-1095
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 3 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	119	79-133	
1,2-Dichloroethane-d4	129	71-155	
Toluene-d8	114	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 4 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-10	**19-04-1095-2-C**	**04/12/19 07:55**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 07:27**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	ND	0.84	1.00	
Bromobenzene	ND	0.84	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.84	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.84	1.00	
sec-Butylbenzene	ND	0.84	1.00	
tert-Butylbenzene	ND	0.84	1.00	
Carbon Disulfide	ND	8.4	1.00	
Carbon Tetrachloride	ND	0.84	1.00	
Chlorobenzene	ND	0.84	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.84	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.84	1.00	
4-Chlorotoluene	ND	0.84	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.84	1.00	
Dibromomethane	ND	0.84	1.00	
1,2-Dichlorobenzene	ND	0.84	1.00	
1,3-Dichlorobenzene	ND	0.84	1.00	
1,4-Dichlorobenzene	ND	0.84	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.84	1.00	
1,2-Dichloroethane	ND	0.84	1.00	
1,1-Dichloroethene	ND	0.84	1.00	
c-1,2-Dichloroethene	ND	0.84	1.00	
t-1,2-Dichloroethene	ND	0.84	1.00	
1,2-Dichloropropane	ND	0.84	1.00	
1,3-Dichloropropane	ND	0.84	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 5 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.84	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.84	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.84	1.00	
p-Isopropyltoluene	ND	0.84	1.00	
Methylene Chloride	ND	8.4	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.4	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.84	1.00	
1,1,1,2-Tetrachloroethane	ND	0.84	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.84	1.00	
Toluene	ND	0.84	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.4	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.4	1.00	
Vinyl Chloride	ND	0.84	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.84	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.84	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.84	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.84	1.00	
Ethanol	ND	420	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 6 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	127	79-133	
1,2-Dichloroethane-d4	136	71-155	
Toluene-d8	112	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 7 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-15	**19-04-1095-3-C**	**04/12/19 08:00**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 07:55**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	ND	0.84	1.00	
Bromobenzene	ND	0.84	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.84	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.84	1.00	
sec-Butylbenzene	ND	0.84	1.00	
tert-Butylbenzene	ND	0.84	1.00	
Carbon Disulfide	ND	8.4	1.00	
Carbon Tetrachloride	ND	0.84	1.00	
Chlorobenzene	ND	0.84	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.84	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.84	1.00	
4-Chlorotoluene	ND	0.84	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.84	1.00	
Dibromomethane	ND	0.84	1.00	
1,2-Dichlorobenzene	ND	0.84	1.00	
1,3-Dichlorobenzene	ND	0.84	1.00	
1,4-Dichlorobenzene	ND	0.84	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.84	1.00	
1,2-Dichloroethane	ND	0.84	1.00	
1,1-Dichloroethene	ND	0.84	1.00	
c-1,2-Dichloroethene	ND	0.84	1.00	
t-1,2-Dichloroethene	ND	0.84	1.00	
1,2-Dichloropropane	ND	0.84	1.00	
1,3-Dichloropropane	ND	0.84	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 8 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.84	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.84	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.84	1.00	
p-Isopropyltoluene	ND	0.84	1.00	
Methylene Chloride	ND	8.4	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.4	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.84	1.00	
1,1,1,2-Tetrachloroethane	ND	0.84	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.84	1.00	
Toluene	ND	0.84	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.4	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.4	1.00	
Vinyl Chloride	ND	0.84	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.84	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.84	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.84	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.84	1.00	
Ethanol	ND	420	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 9 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	121	79-133	
1,2-Dichloroethane-d4	131	71-155	
Toluene-d8	114	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 10 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-19	**19-04-1095-4-C**	**04/12/19 08:20**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 08:23**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.78	1.00	
Bromobenzene	ND	0.78	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.78	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.78	1.00	
sec-Butylbenzene	ND	0.78	1.00	
tert-Butylbenzene	ND	0.78	1.00	
Carbon Disulfide	ND	7.8	1.00	
Carbon Tetrachloride	ND	0.78	1.00	
Chlorobenzene	ND	0.78	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.78	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.78	1.00	
4-Chlorotoluene	ND	0.78	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.78	1.00	
Dibromomethane	ND	0.78	1.00	
1,2-Dichlorobenzene	ND	0.78	1.00	
1,3-Dichlorobenzene	ND	0.78	1.00	
1,4-Dichlorobenzene	ND	0.78	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.78	1.00	
1,2-Dichloroethane	ND	0.78	1.00	
1,1-Dichloroethene	ND	0.78	1.00	
c-1,2-Dichloroethene	ND	0.78	1.00	
t-1,2-Dichloroethene	ND	0.78	1.00	
1,2-Dichloropropane	ND	0.78	1.00	
1,3-Dichloropropane	ND	0.78	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 11 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.78	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.78	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.78	1.00	
p-Isopropyltoluene	ND	0.78	1.00	
Methylene Chloride	ND	7.8	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.8	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.78	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.78	1.00	
Toluene	ND	0.78	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.8	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.8	1.00	
Vinyl Chloride	ND	0.78	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.78	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.78	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 12 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	118	79-133	
1,2-Dichloroethane-d4	130	71-155	
Toluene-d8	115	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 13 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**19-04-1095-5-C**	**04/12/19 09:15**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 08:51**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	44	1.00	
Benzene	ND	0.89	1.00	
Bromobenzene	ND	0.89	1.00	
Bromochloromethane	ND	1.8	1.00	
Bromodichloromethane	ND	0.89	1.00	
Bromoform	ND	4.4	1.00	
Bromomethane	ND	18	1.00	
2-Butanone	ND	18	1.00	
n-Butylbenzene	ND	0.89	1.00	
sec-Butylbenzene	ND	0.89	1.00	
tert-Butylbenzene	ND	0.89	1.00	
Carbon Disulfide	ND	8.9	1.00	
Carbon Tetrachloride	ND	0.89	1.00	
Chlorobenzene	ND	0.89	1.00	
Chloroethane	ND	1.8	1.00	
Chloroform	ND	0.89	1.00	
Chloromethane	ND	18	1.00	
2-Chlorotoluene	ND	0.89	1.00	
4-Chlorotoluene	ND	0.89	1.00	
Dibromochloromethane	ND	1.8	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.4	1.00	
1,2-Dibromoethane	ND	0.89	1.00	
Dibromomethane	ND	0.89	1.00	
1,2-Dichlorobenzene	ND	0.89	1.00	
1,3-Dichlorobenzene	ND	0.89	1.00	
1,4-Dichlorobenzene	ND	0.89	1.00	
Dichlorodifluoromethane	ND	1.8	1.00	
1,1-Dichloroethane	ND	0.89	1.00	
1,2-Dichloroethane	ND	0.89	1.00	
1,1-Dichloroethene	ND	0.89	1.00	
c-1,2-Dichloroethene	ND	0.89	1.00	
t-1,2-Dichloroethene	ND	0.89	1.00	
1,2-Dichloropropane	ND	0.89	1.00	
1,3-Dichloropropane	ND	0.89	1.00	
2,2-Dichloropropane	ND	4.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 14 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.8	1.00	
c-1,3-Dichloropropene	ND	0.89	1.00	
t-1,3-Dichloropropene	ND	1.8	1.00	
Ethylbenzene	ND	0.89	1.00	
2-Hexanone	ND	18	1.00	
Isopropylbenzene	ND	0.89	1.00	
p-Isopropyltoluene	ND	0.89	1.00	
Methylene Chloride	ND	8.9	1.00	
4-Methyl-2-Pentanone	ND	18	1.00	
Naphthalene	ND	8.9	1.00	
n-Propylbenzene	ND	1.8	1.00	
Styrene	ND	0.89	1.00	
1,1,1,2-Tetrachloroethane	ND	0.89	1.00	
1,1,2,2-Tetrachloroethane	ND	1.8	1.00	
Tetrachloroethene	ND	0.89	1.00	
Toluene	ND	0.89	1.00	
1,2,3-Trichlorobenzene	ND	1.8	1.00	
1,2,4-Trichlorobenzene	ND	1.8	1.00	
1,1,1-Trichloroethane	ND	0.89	1.00	
1,1,2-Trichloroethane	ND	0.89	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	1.00	
Trichloroethene	ND	1.8	1.00	
Trichlorofluoromethane	ND	8.9	1.00	
1,2,3-Trichloropropane	ND	1.8	1.00	
1,2,4-Trimethylbenzene	ND	1.8	1.00	
1,3,5-Trimethylbenzene	ND	1.8	1.00	
Vinyl Acetate	ND	8.9	1.00	
Vinyl Chloride	ND	0.89	1.00	
p/m-Xylene	ND	1.8	1.00	
o-Xylene	ND	0.89	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.8	1.00	
Tert-Butyl Alcohol (TBA)	ND	18	1.00	
Diisopropyl Ether (DIPE)	ND	0.89	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.89	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.89	1.00	
Ethanol	ND	440	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/12/19
1 Technology Drive, Suite C515	Work Order:	19-04-1095
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 15 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	122	79-133	
1,2-Dichloroethane-d4	129	71-155	
Toluene-d8	112	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 16 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-2	**19-04-1095-7-C**	**04/12/19 10:40**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 09:20**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	1.0	0.83	1.00	
Bromobenzene	ND	0.83	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.83	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.83	1.00	
sec-Butylbenzene	ND	0.83	1.00	
tert-Butylbenzene	ND	0.83	1.00	
Carbon Disulfide	ND	8.3	1.00	
Carbon Tetrachloride	ND	0.83	1.00	
Chlorobenzene	ND	0.83	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.83	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.83	1.00	
4-Chlorotoluene	ND	0.83	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.83	1.00	
Dibromomethane	ND	0.83	1.00	
1,2-Dichlorobenzene	ND	0.83	1.00	
1,3-Dichlorobenzene	ND	0.83	1.00	
1,4-Dichlorobenzene	ND	0.83	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.83	1.00	
1,2-Dichloroethane	ND	0.83	1.00	
1,1-Dichloroethene	ND	0.83	1.00	
c-1,2-Dichloroethene	ND	0.83	1.00	
t-1,2-Dichloroethene	ND	0.83	1.00	
1,2-Dichloropropane	ND	0.83	1.00	
1,3-Dichloropropane	ND	0.83	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 17 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.83	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.83	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.83	1.00	
p-Isopropyltoluene	ND	0.83	1.00	
Methylene Chloride	ND	8.3	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.3	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.83	1.00	
1,1,1,2-Tetrachloroethane	ND	0.83	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.83	1.00	
Toluene	ND	0.83	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.83	1.00	
1,1,2-Trichloroethane	ND	0.83	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.3	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.3	1.00	
Vinyl Chloride	ND	0.83	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.83	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.83	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.83	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.83	1.00	
Ethanol	ND	420	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 18 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	119	79-133	
1,2-Dichloroethane-d4	129	71-155	
Toluene-d8	115	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 19 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-2	**19-04-1095-9-C**	**04/12/19 10:15**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 09:48**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	1.1	0.84	1.00	
Bromobenzene	ND	0.84	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.84	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.84	1.00	
sec-Butylbenzene	ND	0.84	1.00	
tert-Butylbenzene	ND	0.84	1.00	
Carbon Disulfide	ND	8.4	1.00	
Carbon Tetrachloride	ND	0.84	1.00	
Chlorobenzene	ND	0.84	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.84	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.84	1.00	
4-Chlorotoluene	ND	0.84	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.84	1.00	
Dibromomethane	ND	0.84	1.00	
1,2-Dichlorobenzene	ND	0.84	1.00	
1,3-Dichlorobenzene	ND	0.84	1.00	
1,4-Dichlorobenzene	ND	0.84	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.84	1.00	
1,2-Dichloroethane	ND	0.84	1.00	
1,1-Dichloroethene	ND	0.84	1.00	
c-1,2-Dichloroethene	ND	0.84	1.00	
t-1,2-Dichloroethene	ND	0.84	1.00	
1,2-Dichloropropane	ND	0.84	1.00	
1,3-Dichloropropane	ND	0.84	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 20 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.84	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.84	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.84	1.00	
p-Isopropyltoluene	ND	0.84	1.00	
Methylene Chloride	ND	8.4	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.4	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.84	1.00	
1,1,1,2-Tetrachloroethane	ND	0.84	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.84	1.00	
Toluene	ND	0.84	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.4	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.4	1.00	
Vinyl Chloride	ND	0.84	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.84	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.84	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.84	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.84	1.00	
Ethanol	ND	420	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/12/19
1 Technology Drive, Suite C515	Work Order:	19-04-1095
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 21 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	119	79-133	
1,2-Dichloroethane-d4	129	71-155	
Toluene-d8	112	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 22 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-2	**19-04-1095-11-C**	**04/12/19 12:15**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 10:16**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	43	1.00	
Benzene	ND	0.85	1.00	
Bromobenzene	ND	0.85	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.85	1.00	
Bromoform	ND	4.3	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.85	1.00	
sec-Butylbenzene	ND	0.85	1.00	
tert-Butylbenzene	ND	0.85	1.00	
Carbon Disulfide	ND	8.5	1.00	
Carbon Tetrachloride	ND	0.85	1.00	
Chlorobenzene	ND	0.85	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.85	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.85	1.00	
4-Chlorotoluene	ND	0.85	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.3	1.00	
1,2-Dibromoethane	ND	0.85	1.00	
Dibromomethane	ND	0.85	1.00	
1,2-Dichlorobenzene	ND	0.85	1.00	
1,3-Dichlorobenzene	ND	0.85	1.00	
1,4-Dichlorobenzene	ND	0.85	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.85	1.00	
1,2-Dichloroethane	ND	0.85	1.00	
1,1-Dichloroethene	ND	0.85	1.00	
c-1,2-Dichloroethene	ND	0.85	1.00	
t-1,2-Dichloroethene	ND	0.85	1.00	
1,2-Dichloropropane	ND	0.85	1.00	
1,3-Dichloropropane	ND	0.85	1.00	
2,2-Dichloropropane	ND	4.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 23 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.85	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.85	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.85	1.00	
p-Isopropyltoluene	ND	0.85	1.00	
Methylene Chloride	ND	8.5	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.5	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.85	1.00	
1,1,1,2-Tetrachloroethane	ND	0.85	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.85	1.00	
Toluene	ND	0.85	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.85	1.00	
1,1,2-Trichloroethane	ND	0.85	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.5	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.5	1.00	
Vinyl Chloride	ND	0.85	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.85	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.85	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.85	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.85	1.00	
Ethanol	ND	430	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 24 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	123	79-133	
1,2-Dichloroethane-d4	129	71-155	
Toluene-d8	113	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 25 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2	**19-04-1095-13-E**	**04/12/19 12:40**	**Solid**	**GC/MS CC**	**04/12/19**	**04/18/19 19:14**	**190418L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	3000	50.0	
Benzene	ND	61	50.0	
Bromobenzene	ND	61	50.0	
Bromochloromethane	ND	120	50.0	
Bromodichloromethane	ND	61	50.0	
Bromoform	ND	300	50.0	
Bromomethane	ND	1200	50.0	
2-Butanone	ND	1200	50.0	
n-Butylbenzene	ND	61	50.0	
sec-Butylbenzene	ND	61	50.0	
tert-Butylbenzene	ND	61	50.0	
Carbon Disulfide	ND	610	50.0	
Carbon Tetrachloride	ND	61	50.0	
Chlorobenzene	ND	61	50.0	
Chloroethane	ND	120	50.0	
Chloroform	ND	61	50.0	
Chloromethane	ND	1200	50.0	
2-Chlorotoluene	ND	61	50.0	
4-Chlorotoluene	ND	61	50.0	
Dibromochloromethane	ND	120	50.0	
1,2-Dibromo-3-Chloropropane	ND	300	50.0	
1,2-Dibromoethane	ND	61	50.0	
Dibromomethane	ND	61	50.0	
1,2-Dichlorobenzene	ND	61	50.0	
1,3-Dichlorobenzene	ND	61	50.0	
1,4-Dichlorobenzene	ND	61	50.0	
Dichlorodifluoromethane	ND	120	50.0	
1,1-Dichloroethane	ND	61	50.0	
1,2-Dichloroethane	ND	61	50.0	
1,1-Dichloroethene	ND	61	50.0	
c-1,2-Dichloroethene	ND	61	50.0	
t-1,2-Dichloroethene	ND	61	50.0	
1,2-Dichloropropane	ND	61	50.0	
1,3-Dichloropropane	ND	61	50.0	
2,2-Dichloropropane	ND	300	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 26 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	120	50.0	
c-1,3-Dichloropropene	ND	61	50.0	
t-1,3-Dichloropropene	ND	120	50.0	
Ethylbenzene	ND	61	50.0	
2-Hexanone	ND	1200	50.0	
Isopropylbenzene	ND	61	50.0	
p-Isopropyltoluene	100	61	50.0	
Methylene Chloride	ND	610	50.0	
4-Methyl-2-Pentanone	ND	1200	50.0	
Naphthalene	6900	610	50.0	
n-Propylbenzene	ND	120	50.0	
Styrene	ND	61	50.0	
1,1,1,2-Tetrachloroethane	ND	61	50.0	
1,1,2,2-Tetrachloroethane	ND	120	50.0	
Tetrachloroethene	ND	61	50.0	
Toluene	100	61	50.0	
1,2,3-Trichlorobenzene	ND	120	50.0	
1,2,4-Trichlorobenzene	ND	120	50.0	
1,1,1-Trichloroethane	ND	61	50.0	
1,1,2-Trichloroethane	ND	61	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	610	50.0	
Trichloroethene	ND	120	50.0	
Trichlorofluoromethane	ND	610	50.0	
1,2,3-Trichloropropane	ND	120	50.0	
1,2,4-Trimethylbenzene	1200	120	50.0	
1,3,5-Trimethylbenzene	430	120	50.0	
Vinyl Acetate	ND	610	50.0	
Vinyl Chloride	ND	61	50.0	
p/m-Xylene	260	120	50.0	
o-Xylene	160	61	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	120	50.0	
Tert-Butyl Alcohol (TBA)	ND	1200	50.0	
Diisopropyl Ether (DIPE)	ND	61	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	61	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	61	50.0	
Ethanol	ND	30000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 27 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	79-133	
1,2-Dichloroethane-d4	98	71-155	
Toluene-d8	105	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 28 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30968**	**N/A**	**Solid**	**GC/MS CC**	**04/17/19**	**04/18/19 05:06**	**190417L036**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 29 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/12/19
1 Technology Drive, Suite C515	Work Order:	19-04-1095
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 30 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	112	79-133	
1,2-Dichloroethane-d4	114	71-155	
Toluene-d8	114	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 31 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30974**	**N/A**	**Solid**	**GC/MS CC**	**04/18/19**	**04/18/19 18:18**	**190418L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	5000	50.0	
Benzene	ND	100	50.0	
Bromobenzene	ND	100	50.0	
Bromochloromethane	ND	200	50.0	
Bromodichloromethane	ND	100	50.0	
Bromoform	ND	500	50.0	
Bromomethane	ND	2000	50.0	
2-Butanone	ND	2000	50.0	
n-Butylbenzene	ND	100	50.0	
sec-Butylbenzene	ND	100	50.0	
tert-Butylbenzene	ND	100	50.0	
Carbon Disulfide	ND	1000	50.0	
Carbon Tetrachloride	ND	100	50.0	
Chlorobenzene	ND	100	50.0	
Chloroethane	ND	200	50.0	
Chloroform	ND	100	50.0	
Chloromethane	ND	2000	50.0	
2-Chlorotoluene	ND	100	50.0	
4-Chlorotoluene	ND	100	50.0	
Dibromochloromethane	ND	200	50.0	
1,2-Dibromo-3-Chloropropane	ND	500	50.0	
1,2-Dibromoethane	ND	100	50.0	
Dibromomethane	ND	100	50.0	
1,2-Dichlorobenzene	ND	100	50.0	
1,3-Dichlorobenzene	ND	100	50.0	
1,4-Dichlorobenzene	ND	100	50.0	
Dichlorodifluoromethane	ND	200	50.0	
1,1-Dichloroethane	ND	100	50.0	
1,2-Dichloroethane	ND	100	50.0	
1,1-Dichloroethene	ND	100	50.0	
c-1,2-Dichloroethene	ND	100	50.0	
t-1,2-Dichloroethene	ND	100	50.0	
1,2-Dichloropropane	ND	100	50.0	
1,3-Dichloropropane	ND	100	50.0	
2,2-Dichloropropane	ND	500	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni / 1592.002			Page 32 of 33

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	200	50.0	
c-1,3-Dichloropropene	ND	100	50.0	
t-1,3-Dichloropropene	ND	200	50.0	
Ethylbenzene	ND	100	50.0	
2-Hexanone	ND	2000	50.0	
Isopropylbenzene	ND	100	50.0	
p-Isopropyltoluene	ND	100	50.0	
Methylene Chloride	ND	1000	50.0	
4-Methyl-2-Pentanone	ND	2000	50.0	
Naphthalene	ND	1000	50.0	
n-Propylbenzene	ND	200	50.0	
Styrene	ND	100	50.0	
1,1,1,2-Tetrachloroethane	ND	100	50.0	
1,1,2,2-Tetrachloroethane	ND	200	50.0	
Tetrachloroethene	ND	100	50.0	
Toluene	ND	100	50.0	
1,2,3-Trichlorobenzene	ND	200	50.0	
1,2,4-Trichlorobenzene	ND	200	50.0	
1,1,1-Trichloroethane	ND	100	50.0	
1,1,2-Trichloroethane	ND	100	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	50.0	
Trichloroethene	ND	200	50.0	
Trichlorofluoromethane	ND	1000	50.0	
1,2,3-Trichloropropane	ND	200	50.0	
1,2,4-Trimethylbenzene	ND	200	50.0	
1,3,5-Trimethylbenzene	ND	200	50.0	
Vinyl Acetate	ND	1000	50.0	
Vinyl Chloride	ND	100	50.0	
p/m-Xylene	ND	200	50.0	
o-Xylene	ND	100	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	200	50.0	
Tert-Butyl Alcohol (TBA)	ND	2000	50.0	
Diisopropyl Ether (DIPE)	ND	100	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	100	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	100	50.0	
Ethanol	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/12/19
1 Technology Drive, Suite C515	Work Order:	19-04-1095
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni / 1592.002		Page 33 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	100	71-155	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni / 1592.002			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-4-15	**Sample**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 10:47**	**190417S05**
SV-4-15	**Matrix Spike**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 06:54**	**190417S05**
SV-4-15	**Matrix Spike Duplicate**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 07:16**	**190417S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	361.0	90	411.9	103	64-130	13	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-4-15	**Sample**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:43**	**190416S02**
SV-4-15	**Matrix Spike**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:45**	**190416S02**
SV-4-15	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:47**	**190416S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.32	53	9.788	39	50-115	31	0-20	3,4
Arsenic	ND	25.00	25.34	101	20.23	81	75-125	22	0-20	4
Barium	69.35	25.00	85.45	64	98.01	115	75-125	14	0-20	3
Beryllium	0.3597	25.00	25.56	101	20.86	82	75-125	20	0-20	
Cadmium	ND	25.00	25.88	104	20.97	84	75-125	21	0-20	4
Chromium	20.68	25.00	39.38	75	39.59	76	75-125	1	0-20	
Cobalt	6.592	25.00	29.44	91	25.61	76	75-125	14	0-20	
Copper	6.867	25.00	30.21	93	27.89	84	75-125	8	0-20	
Lead	ND	25.00	25.25	101	20.38	82	75-125	21	0-20	4
Molybdenum	ND	25.00	24.24	97	19.92	80	75-125	20	0-20	
Nickel	7.572	25.00	32.17	98	27.95	82	75-125	14	0-20	
Selenium	ND	25.00	23.69	95	17.91	72	75-125	28	0-20	3,4
Silver	ND	12.50	12.71	102	13.19	106	75-125	4	0-20	
Thallium	ND	25.00	25.10	100	20.34	81	75-125	21	0-20	4
Vanadium	30.03	25.00	47.21	69	48.88	75	75-125	3	0-20	3
Zinc	30.22	25.00	51.32	84	48.74	74	75-125	5	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Panattoni / 1592.002			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-04-0974-1	**Sample**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:45**	**190416S02**
19-04-0974-1	**Matrix Spike**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:48**	**190416S02**
19-04-0974-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:50**	**190416S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7998	96	0.8063	97	71-137	1	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B6-2	**Sample**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 14:09**	**190417S03**
B6-2	**Matrix Spike**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 13:26**	**190417S03**
B6-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 13:41**	**190417S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	22.55	90	21.34	85	50-135	6	0-25	
Alpha-BHC	ND	25.00	22.35	89	21.36	85	50-135	5	0-25	
Beta-BHC	ND	25.00	22.15	89	21.88	88	50-135	1	0-25	
4,4'-DDD	ND	25.00	24.98	100	24.71	99	50-135	1	0-25	
4,4'-DDE	ND	25.00	24.43	98	23.90	96	50-135	2	0-25	
4,4'-DDT	ND	25.00	25.71	103	25.26	101	50-135	2	0-25	
Delta-BHC	ND	25.00	22.79	91	22.73	91	50-135	0	0-25	
Dieldrin	ND	25.00	24.46	98	23.93	96	50-135	2	0-25	
Endosulfan I	ND	25.00	24.66	99	23.87	95	50-135	3	0-25	
Endosulfan II	ND	25.00	24.69	99	24.40	98	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	25.88	104	25.12	100	50-135	3	0-25	
Endrin	ND	25.00	25.02	100	24.59	98	50-135	2	0-25	
Endrin Aldehyde	ND	25.00	20.74	83	19.95	80	50-135	4	0-25	
Gamma-BHC	ND	25.00	22.62	90	21.85	87	50-135	3	0-25	
Heptachlor	ND	25.00	23.97	96	22.61	90	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	24.87	99	23.95	96	50-135	4	0-25	
Methoxychlor	ND	25.00	26.17	105	26.44	106	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-04-1541-1	**Sample**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 14:19**	**190418S14**
19-04-1541-1	**Matrix Spike**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 20:15**	**190418S14**
19-04-1541-1	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 20:29**	**190418S14**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.36	77	19.42	78	50-135	0	0-25	
Alpha-BHC	ND	25.00	19.19	77	19.64	79	50-135	2	0-25	
Beta-BHC	ND	25.00	21.28	85	21.22	85	50-135	0	0-25	
4,4'-DDD	ND	25.00	24.52	98	24.26	97	50-135	1	0-25	
4,4'-DDE	15.45	25.00	65.94	202	59.90	178	50-135	10	0-25	3
4,4'-DDT	9.904	25.00	50.44	162	46.02	144	50-135	9	0-25	3
Delta-BHC	ND	25.00	21.52	86	22.18	89	50-135	3	0-25	
Dieldrin	ND	25.00	25.69	103	25.35	101	50-135	1	0-25	
Endosulfan I	ND	25.00	23.41	94	23.27	93	50-135	1	0-25	
Endosulfan II	ND	25.00	24.06	96	23.86	95	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	24.40	98	24.36	97	50-135	0	0-25	
Endrin	ND	25.00	23.43	94	23.28	93	50-135	1	0-25	
Endrin Aldehyde	ND	25.00	21.77	87	21.73	87	50-135	0	0-25	
Gamma-BHC	ND	25.00	20.10	80	20.50	82	50-135	2	0-25	
Heptachlor	ND	25.00	20.50	82	21.04	84	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	21.88	88	21.86	87	50-135	0	0-25	
Methoxychlor	ND	25.00	24.34	97	24.10	96	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni / 1592.002			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-3571	**LCS**	**Solid**	**GC 49**	**04/17/19**	**04/18/19 06:33**	**190417B05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	410.6	103	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27773	**LCS**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:35**	**190416L02**
097-01-002-27773	**LCSD**	**Solid**	**ICP 8300**	**04/16/19**	**04/18/19 18:37**	**190416L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	27.03	108	27.61	110	80-120	73-127	2	0-20	
Arsenic	25.00	26.62	106	26.79	107	80-120	73-127	1	0-20	
Barium	25.00	27.63	111	27.36	109	80-120	73-127	1	0-20	
Beryllium	25.00	25.40	102	25.20	101	80-120	73-127	1	0-20	
Cadmium	25.00	26.91	108	26.51	106	80-120	73-127	1	0-20	
Chromium	25.00	26.26	105	25.98	104	80-120	73-127	1	0-20	
Cobalt	25.00	26.77	107	26.52	106	80-120	73-127	1	0-20	
Copper	25.00	25.62	102	25.46	102	80-120	73-127	1	0-20	
Lead	25.00	26.44	106	27.09	108	80-120	73-127	2	0-20	
Molybdenum	25.00	25.62	102	26.15	105	80-120	73-127	2	0-20	
Nickel	25.00	28.17	113	28.03	112	80-120	73-127	0	0-20	
Selenium	25.00	23.74	95	24.03	96	80-120	73-127	1	0-20	
Silver	12.50	12.64	101	12.62	101	80-120	73-127	0	0-20	
Thallium	25.00	25.95	104	25.59	102	80-120	73-127	1	0-20	
Vanadium	25.00	26.48	106	26.44	106	80-120	73-127	0	0-20	
Zinc	25.00	27.13	109	27.69	111	80-120	73-127	2	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Panattoni / 1592.002			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4541	**LCS**	**Solid**	**Mercury 07**	**04/16/19**	**04/16/19 15:43**	**190416L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7747	93	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3143	**LCS**	**Solid**	**GC 51**	**04/17/19**	**04/18/19 15:06**	**190417L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	21.83	87	50-135	36-149	
Alpha-BHC	25.00	22.07	88	50-135	36-149	
Beta-BHC	25.00	21.11	84	50-135	36-149	
4,4'-DDD	25.00	24.72	99	50-135	36-149	
4,4'-DDE	25.00	22.19	89	50-135	36-149	
4,4'-DDT	25.00	18.42	74	50-135	36-149	
Delta-BHC	25.00	22.25	89	50-135	36-149	
Dieldrin	25.00	22.49	90	50-135	36-149	
Endosulfan I	25.00	23.08	92	50-135	36-149	
Endosulfan II	25.00	22.89	92	50-135	36-149	
Endosulfan Sulfate	25.00	22.63	91	50-135	36-149	
Endrin	25.00	21.58	86	50-135	36-149	
Endrin Aldehyde	25.00	18.54	74	50-135	36-149	
Gamma-BHC	25.00	21.96	88	50-135	36-149	
Heptachlor	25.00	22.19	89	50-135	36-149	
Heptachlor Epoxide	25.00	22.03	88	50-135	36-149	
Methoxychlor	25.00	18.21	73	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Panattoni / 1592.002			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3144	**LCS**	**Solid**	**GC 51**	**04/18/19**	**04/19/19 17:39**	**190418L14**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	19.77	79	50-135	36-149	
Alpha-BHC	25.00	21.60	86	50-135	36-149	
Beta-BHC	25.00	20.94	84	50-135	36-149	
4,4'-DDD	25.00	23.40	94	50-135	36-149	
4,4'-DDE	25.00	22.62	90	50-135	36-149	
4,4'-DDT	25.00	23.71	95	50-135	36-149	
Delta-BHC	25.00	22.02	88	50-135	36-149	
Dieldrin	25.00	23.50	94	50-135	36-149	
Endosulfan I	25.00	24.26	97	50-135	36-149	
Endosulfan II	25.00	23.89	96	50-135	36-149	
Endosulfan Sulfate	25.00	23.69	95	50-135	36-149	
Endrin	25.00	21.02	84	50-135	36-149	
Endrin Aldehyde	25.00	23.65	95	50-135	36-149	
Gamma-BHC	25.00	21.88	88	50-135	36-149	
Heptachlor	25.00	22.68	91	50-135	36-149	
Heptachlor Epoxide	25.00	22.93	92	50-135	36-149	
Methoxychlor	25.00	22.84	91	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Panattoni / 1592.002			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30968	**LCS**	**Solid**	**GC/MS CC**	**04/17/19**	**04/18/19 03:42**	**190417L036**
095-01-025-30968	**LCSD**	**Solid**	**GC/MS CC**	**04/17/19**	**04/18/19 04:10**	**190417L036**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.00	106	52.85	106	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	52.58	105	52.44	105	65-137	53-149	0	0-20	
Chlorobenzene	50.00	44.43	89	45.05	90	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	50.08	100	50.66	101	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	46.17	92	47.05	94	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	51.12	102	51.32	103	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	52.05	104	50.53	101	68-128	58-138	3	0-20	
Ethylbenzene	50.00	43.76	88	44.27	89	80-120	73-127	1	0-20	
Toluene	50.00	48.35	97	48.89	98	80-120	73-127	1	0-20	
Trichloroethene	50.00	55.45	111	53.57	107	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	57.33	115	54.96	110	67-127	57-137	4	0-20	
p/m-Xylene	100.0	87.60	88	87.86	88	75-125	67-133	0	0-25	
o-Xylene	50.00	45.21	90	44.93	90	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.44	85	42.27	85	70-124	61-133	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	251.2	100	246.7	99	73-121	65-129	2	0-20	
Diisopropyl Ether (DIPE)	50.00	42.43	85	42.02	84	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	42.17	84	42.15	84	70-124	61-133	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	43.09	86	44.16	88	74-122	66-130	2	0-20	
Ethanol	500.0	564.4	113	502.6	101	51-135	37-149	12	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Panattoni / 1592.002			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30974	**LCS**	**Solid**	**GC/MS CC**	**04/18/19**	**04/18/19 16:24**	**190418L015**
095-01-025-30974	**LCSD**	**Solid**	**GC/MS CC**	**04/18/19**	**04/18/19 16:53**	**190418L015**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	56.65	113	58.92	118	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	52.40	105	51.77	104	65-137	53-149	1	0-20	
Chlorobenzene	50.00	47.68	95	49.42	99	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	53.29	107	54.46	109	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	49.70	99	51.97	104	80-120	73-127	4	0-20	
1,2-Dichloroethane	50.00	52.13	104	55.51	111	80-120	73-127	6	0-20	
1,1-Dichloroethene	50.00	51.70	103	52.03	104	68-128	58-138	1	0-20	
Ethylbenzene	50.00	47.62	95	48.86	98	80-120	73-127	3	0-20	
Toluene	50.00	51.85	104	53.85	108	80-120	73-127	4	0-20	
Trichloroethene	50.00	55.67	111	57.71	115	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	47.14	94	48.00	96	67-127	57-137	2	0-20	
p/m-Xylene	100.0	96.13	96	98.91	99	75-125	67-133	3	0-25	
o-Xylene	50.00	48.20	96	50.30	101	75-125	67-133	4	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	41.12	82	42.69	85	70-124	61-133	4	0-20	
Tert-Butyl Alcohol (TBA)	250.0	253.0	101	283.7	113	73-121	65-129	11	0-20	
Diisopropyl Ether (DIPE)	50.00	41.42	83	42.65	85	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	40.83	82	42.59	85	70-124	61-133	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.63	91	47.57	95	74-122	66-130	4	0-20	
Ethanol	500.0	504.9	101	628.4	126	51-135	37-149	22	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-04-1095

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	771	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 8015B (M)	EPA 3550B	972	GC 49	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8260B	EPA 5035	823	GC/MS CC	2

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Glossary of Terms and Qualifiers

Work Order: 19-04-1095 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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WO NO. / LAB USE ONLY: [redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/2019
PAGE: 1 OF 2

LABORATORY CLIENT: Avocet Environmental Inc.
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0977 E-MAIL: Jsatterlee@avocetenv.com

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Spencer Fellner

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Hold 5' for VOC's, OCP's, and metals on samples B4 → B8

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC, inc. fuel oxy's 8260B	TPH-Carbon chain 8015(M)	Ti He 22 metals 6010B/7470A	OCP 8081A												
	SV-4-5	4/12/19	07:50	soil	4				X															
	SV-4-10		07:55						X															
	SV-4-15		08:00						X	X	X													
	SV-4-19		08:20						X	X	X													
	B4-2		09:15						X	X		X												
	B4-5		09:20							X														
	B6-2		10:40						X	X		X												
	B6-5		11:00							X														
	B5-2		10:15						X	X		X												
	B5-5		10:20							X														

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Bannyle Ea	4/12/19	15:16
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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WO NO. / LAB USE ONLY [redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 2 OF 2

LABORATORY CLIENT: Avocet Environmental Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949)296-0977 E-MAIL: Jsatterlee@avocetenv.com

CLIENT PROJECT NAME / NO.: Ranattoni/1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Spencer Feltner

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC, Inc. Fuel Oxy's 8260B	TPH-CC 8015(M)	Title 22 Metals 6010B/7470A	OCP 8081A
11	B7-2	4/12/19	12:15	Soil	4				X	X		X
12	B7-5	↓	12:30	↓	↓					X		
13	B8-2	↓	12:40	↓	↓				X	X		X
14	B8-5	↓	12:45	↓	↓					X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Danny G2	4/12/19	15:16

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WORK ORDER NUMBER: 19-04-0095

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: AVOCET

DATE: 04/12/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): 2.1 °C (w/ CF): 1.9 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: LS

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: LS
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: GM

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☑ TerraCores® (3) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: GM

Reviewed by: SM

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 19-04-1095

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: Panattoni / 1592.002

Attention: Jessica Satterlee
1 Technology Drive
Suite C515
Irvine, CA 92618-5302

Approved for release on 05/06/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 19-04-1095

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Work Order Narrative

Work Order: 19-04-1095 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/12/19. They were assigned to Work Order 19-04-1095.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1095
		Project Name:	Panattoni / 1592.002
		PO Number:	
		Date/Time Received:	04/12/19 15:16
		Number of Containers:	56
Attn:	Jessica Satterlee		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B4-2	19-04-1095-5	04/12/19 09:15	4	Solid
B6-2	19-04-1095-7	04/12/19 10:40	4	Solid
B5-2	19-04-1095-9	04/12/19 10:15	4	Solid
B7-2	19-04-1095-11	04/12/19 12:15	4	Solid
B8-2	19-04-1095-13	04/12/19 12:40	4	Solid

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-1095 Panattoni / 1592.002 04/12/19
Attn:	Jessica Satterlee		Page 1 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B4-2 (19-04-1095-5)						
Arsenic	1.18		0.781	mg/kg	EPA 6010B	EPA 3050B
Barium	89.0		0.521	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.590		0.260	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.79		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	14.6		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.89		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	15.2		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	42.6		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.470		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	11.4		0.260	mg/kg	EPA 6010B	EPA 3050B
Vanadium	30.7		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	367		1.04	mg/kg	EPA 6010B	EPA 3050B
B6-2 (19-04-1095-7)						
Barium	106		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.540		0.249	mg/kg	EPA 6010B	EPA 3050B
Chromium	13.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.17		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	9.08		0.498	mg/kg	EPA 6010B	EPA 3050B
Nickel	7.60		0.249	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.7		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	43.3		0.995	mg/kg	EPA 6010B	EPA 3050B
B5-2 (19-04-1095-9)						
Barium	90.8		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.462		0.238	mg/kg	EPA 6010B	EPA 3050B
Chromium	10.7		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.96		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	7.41		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	0.621		0.476	mg/kg	EPA 6010B	EPA 3050B
Nickel	6.29		0.238	mg/kg	EPA 6010B	EPA 3050B
Vanadium	26.2		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	36.8		0.952	mg/kg	EPA 6010B	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	19-04-1095 Panattoni / 1592.002 04/12/19
Attn:	Jessica Satterlee		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B7-2 (19-04-1095-11)						
Barium	74.4		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.405		0.249	mg/kg	EPA 6010B	EPA 3050B
Chromium	9.71		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.02		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	7.13		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	1.75		0.498	mg/kg	EPA 6010B	EPA 3050B
Nickel	5.99		0.249	mg/kg	EPA 6010B	EPA 3050B
Vanadium	23.3		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	32.0		0.995	mg/kg	EPA 6010B	EPA 3050B
B8-2 (19-04-1095-13)						
Barium	110		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.521		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.660		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.3		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.73		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	16.0		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	2.97		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.309		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	8.96		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	50.2		1.01	mg/kg	EPA 6010B	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**19-04-1095-5-A**	**04/12/19 09:15**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:42**	**190503L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	1.18	0.781	1.04	
Barium	89.0	0.521	1.04	
Beryllium	0.590	0.260	1.04	
Cadmium	1.79	0.521	1.04	
Chromium	14.6	0.260	1.04	
Cobalt	6.89	0.260	1.04	
Copper	15.2	0.521	1.04	
Lead	42.6	0.521	1.04	
Molybdenum	0.470	0.260	1.04	
Nickel	11.4	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	30.7	0.260	1.04	
Zinc	367	1.04	1.04	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-2	**19-04-1095-7-A**	**04/12/19 10:40**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:47**	**190503L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	ND	0.746	0.995	
Barium	106	0.498	0.995	
Beryllium	0.540	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	13.0	0.249	0.995	
Cobalt	7.17	0.249	0.995	
Copper	9.08	0.498	0.995	
Lead	ND	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	7.60	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	31.7	0.249	0.995	
Zinc	43.3	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-2	**19-04-1095-9-A**	**04/12/19 10:15**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:49**	**190503L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	ND	0.714	0.952	
Barium	90.8	0.476	0.952	
Beryllium	0.462	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	10.7	0.238	0.952	
Cobalt	5.96	0.238	0.952	
Copper	7.41	0.476	0.952	
Lead	0.621	0.476	0.952	
Molybdenum	ND	0.238	0.952	
Nickel	6.29	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	26.2	0.238	0.952	
Zinc	36.8	0.952	0.952	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-2	**19-04-1095-11-A**	**04/12/19 12:15**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:51**	**190503L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	ND	0.746	0.995	
Barium	74.4	0.498	0.995	
Beryllium	0.405	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	9.71	0.249	0.995	
Cobalt	6.02	0.249	0.995	
Copper	7.13	0.498	0.995	
Lead	1.75	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	5.99	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	23.3	0.249	0.995	
Zinc	32.0	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-2	**19-04-1095-13-A**	**04/12/19 12:40**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:56**	**190503L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	ND	0.758	1.01	
Barium	110	0.505	1.01	
Beryllium	0.521	0.253	1.01	
Cadmium	0.660	0.505	1.01	
Chromium	17.3	0.253	1.01	
Cobalt	7.73	0.253	1.01	
Copper	16.0	0.505	1.01	
Lead	2.97	0.505	1.01	
Molybdenum	0.309	0.253	1.01	
Nickel	8.96	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	36.8	0.253	1.01	
Zinc	50.2	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27850**	**N/A**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:35**	**190503L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	ND	0.735	0.980	
Barium	ND	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	ND	0.245	0.980	
Cobalt	ND	0.245	0.980	
Copper	ND	0.490	0.980	
Lead	ND	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	ND	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	ND	0.245	0.980	
Zinc	ND	0.980	0.980	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Panattoni / 1592.002			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**19-04-1095-5-A**	**04/12/19 09:15**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:43**	**190503L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B6-2	**19-04-1095-7-A**	**04/12/19 10:40**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:50**	**190503L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B5-2	**19-04-1095-9-A**	**04/12/19 10:15**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:53**	**190503L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B7-2	**19-04-1095-11-A**	**04/12/19 12:15**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:55**	**190503L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B8-2	**19-04-1095-13-A**	**04/12/19 12:40**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:57**	**190503L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Method Blank	**099-16-272-4575**	**N/A**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:39**	**190503L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B4-2	**Sample**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:42**	**190503S01**
B4-2	**Matrix Spike**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:44**	**190503S01**
B4-2	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:45**	**190503S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.076	20	7.888	32	50-115	43	0-20	3,4
Arsenic	1.178	25.00	27.78	106	25.84	99	75-125	7	0-20	
Barium	89.00	25.00	160.1	284	112.2	93	75-125	35	0-20	3,4
Beryllium	0.5897	25.00	28.21	110	26.85	105	75-125	5	0-20	
Cadmium	1.794	25.00	30.11	113	27.65	103	75-125	9	0-20	
Chromium	14.59	25.00	50.04	142	40.75	105	75-125	20	0-20	3
Cobalt	6.885	25.00	36.89	120	31.62	99	75-125	15	0-20	
Copper	15.19	25.00	53.52	153	42.35	109	75-125	23	0-20	3,4
Lead	42.63	25.00	92.16	198	66.11	94	75-125	33	0-20	3,4
Molybdenum	0.4705	25.00	25.86	102	24.81	97	75-125	4	0-20	
Nickel	11.36	25.00	45.76	138	37.61	105	75-125	20	0-20	3
Selenium	ND	25.00	23.33	93	22.72	91	75-125	3	0-20	
Silver	ND	12.50	13.69	110	13.11	105	75-125	4	0-20	
Thallium	ND	25.00	17.41	70	16.67	67	75-125	4	0-20	3
Vanadium	30.68	25.00	72.75	168	55.96	101	75-125	26	0-20	3,4
Zinc	366.6	25.00	558.5	4X	362.7	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Panattoni / 1592.002			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B4-2	**Sample**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:43**	**190503S03**
B4-2	**Matrix Spike**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:46**	**190503S03**
B4-2	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:48**	**190503S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8848	106	0.9010	108	71-137	2	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Panattoni / 1592.002			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27850	**LCS**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:37**	**190503L01**
097-01-002-27850	**LCSD**	**Solid**	**ICP 8300**	**05/03/19**	**05/03/19 22:40**	**190503L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	25.98	104	26.65	107	80-120	73-127	3	0-20	
Arsenic	25.00	25.77	103	26.15	105	80-120	73-127	1	0-20	
Barium	25.00	26.98	108	27.23	109	80-120	73-127	1	0-20	
Beryllium	25.00	24.96	100	25.21	101	80-120	73-127	1	0-20	
Cadmium	25.00	26.17	105	26.20	105	80-120	73-127	0	0-20	
Chromium	25.00	25.03	100	25.29	101	80-120	73-127	1	0-20	
Cobalt	25.00	25.71	103	25.88	104	80-120	73-127	1	0-20	
Copper	25.00	24.95	100	25.26	101	80-120	73-127	1	0-20	
Lead	25.00	25.33	101	25.76	103	80-120	73-127	2	0-20	
Molybdenum	25.00	24.12	96	24.39	98	80-120	73-127	1	0-20	
Nickel	25.00	26.68	107	26.81	107	80-120	73-127	1	0-20	
Selenium	25.00	24.75	99	25.94	104	80-120	73-127	5	0-20	
Silver	12.50	12.61	101	12.70	102	80-120	73-127	1	0-20	
Thallium	25.00	24.60	98	24.55	98	80-120	73-127	0	0-20	
Vanadium	25.00	25.11	100	25.30	101	80-120	73-127	1	0-20	
Zinc	25.00	26.12	104	26.46	106	80-120	73-127	1	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/12/19
1 Technology Drive, Suite C515		Work Order:	19-04-1095
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Panattoni / 1592.002			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4575	**LCS**	**Solid**	**Mercury 08**	**05/03/19**	**05/03/19 15:41**	**190503L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7715	92	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-04-1095

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1

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Glossary of Terms and Qualifiers

Work Order: 19-04-1095 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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[redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/2019
PAGE: 1 OF 2

LABORATORY CLIENT: Avocet Environmental Inc.
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0977 E-MAIL: Jsatterlee@avocetenv.com

CLIENT PROJECT NAME / NO.: Panattoni/1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Spencer Feltman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Hold 5' for VOC's, OCP's, and metals ~~[illegible]~~ on samples B4 → B8

REQUESTED ANALYSES
Please check box or fill in blank as needed.

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC, inc. fuel oxy's 8260B	TPH-Carbon chain 8015(M)	Title 22 metals 6010B/7470A	OCP 8081A	Revised 4/29/19 by SRF
SV-4-5	4/12/19	07:50	soil	4				X				
SV-4-10	↓	07:55	↓	↓				X				
SV-4-15	↓	08:00	↓	↓				X	X	X		
SV-4-19	↓	08:20	↓	↓				X	X	X		
B4-2	↓	09:15	↓	↓				X	X	X	X	
B4-5	↓	09:20	↓	↓					X			
B6-2	↓	10:40	↓	↓				X	X	X	X	
B6-5	↓	11:00	↓	↓					X			
B5-2	↓	10:15	↓	↓				X	X	X	X	
B5-5	↓	10:20	↓	↓					X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Danny Ge	4/12/19	15:16

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[redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 2 OF 2

LABORATORY CLIENT: Avocet Environmental Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949)296-0977 E-MAIL: JSatterlee@avocetenv.com

CLIENT PROJECT NAME / NO.: Ranattoni/1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Spencer Feltman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC, Inc. Fuel Oxy's 8260B	TPH-CC 8015(M)	Title 22 Metals 6010B/7470A	OCP 8081A
B7-2	4/12/19	12:15	Soil	4				X	X	X	X
B7-5	↓	12:30	↓	↓					X		
B8-2	↓	12:40	↓	↓				X	X	X	X
B8-5	↓	12:45	↓	↓					X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Danny Gz	4/12/19	15:16

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WO NO. / LAB USE ONLY: [redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/2019
PAGE: 1 OF 2

LABORATORY CLIENT: Avocet Environmental Inc.
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949) 296-0977 E-MAIL: Jsatterlee@avocetenv.com

CLIENT PROJECT NAME / NO.: Panattoni / 1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Spencer Felkner

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Hold 5' for VOC's, OCP's, and metals on samples B4 → B8

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC, inc. fuel oxy's 8260B	TPH-Carbon chain 8015(M)	Ti He 22 metals 6010B/7470A	OCP 8081A												
	SV-4-5	4/12/19	07:50	soil	4				X															
	SV-4-10		07:55						X															
	SV-4-15		08:00						X	X	X													
	SV-4-19		08:20						X	X	X													
	B4-2		09:15						X	X		X												
	B4-5		09:20							X														
	B6-2		10:40						X	X		X												
	B6-5		11:00							X														
	B5-2		10:15						X	X		X												
	B5-5		10:20							X														

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Bannyle Ea	4/12/19	15:16
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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WO NO: [redacted]

CHAIN-OF-CUSTODY RECORD

DATE: 4/12/19
PAGE: 2 OF 2

LABORATORY CLIENT: Avocet Environmental Inc
ADDRESS: 1 Technology Drive #C515
CITY: Irvine STATE: ZIP:
TEL: (949)296-0977 E-MAIL: JSatterlee@avocetenv.com

CLIENT PROJECT NAME / NO.: Panattoni/1592.002
P.O. NO.: 1592.002
PROJECT CONTACT: Jessica Satterlee
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Spencer Fellows

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC, MC, Fuel Oxy's 8260B	TPH-CC 8015(M)	Title 22 Metals 6010B/7470A	OCP 8081A
11	B7-2	4/12/19	12:15	Soil	4				X	X		X
12	B7-5	↓	12:30	↓	↓					X		
13	B8-2		12:40						X	X		X
14	B8-5		12:45							X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Danny G2	4/12/19	15:16
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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WORK ORDER NUMBER: 19-04-4095

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: AVOCET

DATE: 04/12/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): 2.1 °C (w/ CF): 1.9 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: LS

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: LS
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: GM

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____
Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☑ TerraCores® (3) ☐ _____ ☐ _____ ☐ _____
Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: GM

Reviewed by: SM

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WORK ORDER NUMBER: 19-04-2366

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003

Attention: Phil Miller
1 Technology Drive
Suite C515
Irvine, CA 92618-5302

Approved for release on 05/07/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003
Work Order Number: 19-04-2366

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Work Order Narrative

Work Order: 19-04-2366 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/30/19. They were assigned to Work Order 19-04-2366.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-2366
		Project Name:	Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003
		PO Number:	
		Date/Time Received:	04/30/19 15:12
		Number of Containers:	16
Attn:	Phil Miller		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B8-2R	19-04-2366-1	04/30/19 13:20	4	Solid
B9-2	19-04-2366-2	04/30/19 12:30	4	Solid
B10-2	19-04-2366-3	04/30/19 11:00	4	Solid
B11-2	19-04-2366-4	04/30/19 10:30	4	Solid

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QC Association Summary

Work Order: 19-04-2366

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
B9-2	EPA 8015B (M) C6-C44		EPA 3550B	GC 50	190503S08	190503B08
B9-2	EPA 8260B Volatile Organics + Oxygenates Prep 5035		EPA 5035	GC/MS QQ		190503L015
B10-2	EPA 8015B (M) C6-C44		EPA 3550B	GC 50	190503S08	190503B08
B10-2	EPA 8260B Volatile Organics + Oxygenates Prep 5035		EPA 5035	GC/MS QQ		190503L015
B11-2	EPA 8015B (M) C6-C44		EPA 3550B	GC 50	190503S08	190503B08
B11-2	EPA 8260B Volatile Organics + Oxygenates Prep 5035		EPA 5035	GC/MS QQ		190503L015

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-2366
		Project Name:	Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003
		Received:	04/30/19
Attn:	Phil Miller		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B9-2 (19-04-2366-2)						
C25-C28	17		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	28		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	22		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	11		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	91		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
B10-2 (19-04-2366-3)						
C25-C28	61		10	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	120		10	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	87		10	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	45		10	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	340		10	mg/kg	EPA 8015B (M)	EPA 3550B
B11-2 (19-04-2366-4)						
C25-C28	120		25	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	240		25	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	190		25	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	96		25	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	710		25	mg/kg	EPA 8015B (M)	EPA 3550B
Acetone	46		39	ug/kg	EPA 8260B	EPA 5035
Benzene	0.86		0.78	ug/kg	EPA 8260B	EPA 5035

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-2	**19-04-2366-2-A**	**04/30/19 12:30**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 23:44**	**190503B08**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	17	5.0	1.00	
C29-C32	28	5.0	1.00	
C33-C36	22	5.0	1.00	
C37-C40	11	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	91	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2	**19-04-2366-3-A**	**04/30/19 11:00**	**Solid**	**GC 50**	**05/03/19**	**05/04/19 00:04**	**190503B08**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	10	2.00	
C7	ND	10	2.00	
C8	ND	10	2.00	
C9-C10	ND	10	2.00	
C11-C12	ND	10	2.00	
C13-C14	ND	10	2.00	
C15-C16	ND	10	2.00	
C17-C18	ND	10	2.00	
C19-C20	ND	10	2.00	
C21-C22	ND	10	2.00	
C23-C24	ND	10	2.00	
C25-C28	61	10	2.00	
C29-C32	120	10	2.00	
C33-C36	87	10	2.00	
C37-C40	45	10	2.00	
C41-C44	ND	10	2.00	
C6-C44 Total	340	10	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2	**19-04-2366-4-A**	**04/30/19 10:30**	**Solid**	**GC 50**	**05/03/19**	**05/04/19 00:24**	**190503B08**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	25	5.00	
C7	ND	25	5.00	
C8	ND	25	5.00	
C9-C10	ND	25	5.00	
C11-C12	ND	25	5.00	
C13-C14	ND	25	5.00	
C15-C16	ND	25	5.00	
C17-C18	ND	25	5.00	
C19-C20	ND	25	5.00	
C21-C22	ND	25	5.00	
C23-C24	ND	25	5.00	
C25-C28	120	25	5.00	
C29-C32	240	25	5.00	
C33-C36	190	25	5.00	
C37-C40	96	25	5.00	
C41-C44	ND	25	5.00	
C6-C44 Total	710	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-3588**	**N/A**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 16:23**	**190503B08**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-2	**19-04-2366-2-C**	**04/30/19 12:30**	**Solid**	**GC/MS QQ**	**04/30/19**	**05/03/19 18:09**	**190503L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	43	1.00	
Benzene	ND	0.87	1.00	
Bromobenzene	ND	0.87	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.87	1.00	
Bromoform	ND	4.3	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.87	1.00	
sec-Butylbenzene	ND	0.87	1.00	
tert-Butylbenzene	ND	0.87	1.00	
Carbon Disulfide	ND	8.7	1.00	
Carbon Tetrachloride	ND	0.87	1.00	
Chlorobenzene	ND	0.87	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.87	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.87	1.00	
4-Chlorotoluene	ND	0.87	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.3	1.00	
1,2-Dibromoethane	ND	0.87	1.00	
Dibromomethane	ND	0.87	1.00	
1,2-Dichlorobenzene	ND	0.87	1.00	
1,3-Dichlorobenzene	ND	0.87	1.00	
1,4-Dichlorobenzene	ND	0.87	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.87	1.00	
1,2-Dichloroethane	ND	0.87	1.00	
1,1-Dichloroethene	ND	0.87	1.00	
c-1,2-Dichloroethene	ND	0.87	1.00	
t-1,2-Dichloroethene	ND	0.87	1.00	
1,2-Dichloropropane	ND	0.87	1.00	
1,3-Dichloropropane	ND	0.87	1.00	
2,2-Dichloropropane	ND	4.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 2 of 12

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.87	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.87	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.87	1.00	
p-Isopropyltoluene	ND	0.87	1.00	
Methylene Chloride	ND	8.7	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.7	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.87	1.00	
1,1,1,2-Tetrachloroethane	ND	0.87	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.87	1.00	
Toluene	ND	0.87	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.87	1.00	
1,1,2-Trichloroethane	ND	0.87	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.7	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.7	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.7	1.00	
Vinyl Chloride	ND	0.87	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.87	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.87	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.87	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.87	1.00	
Ethanol	ND	430	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/30/19
1 Technology Drive, Suite C515	Work Order:	19-04-2366
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	120	71-155	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-2	**19-04-2366-3-C**	**04/30/19 11:00**	**Solid**	**GC/MS QQ**	**04/30/19**	**05/03/19 18:38**	**190503L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	40	1.00	
Benzene	ND	0.79	1.00	
Bromobenzene	ND	0.79	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.79	1.00	
Bromoform	ND	4.0	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.79	1.00	
sec-Butylbenzene	ND	0.79	1.00	
tert-Butylbenzene	ND	0.79	1.00	
Carbon Disulfide	ND	7.9	1.00	
Carbon Tetrachloride	ND	0.79	1.00	
Chlorobenzene	ND	0.79	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.79	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.79	1.00	
4-Chlorotoluene	ND	0.79	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.00	
1,2-Dibromoethane	ND	0.79	1.00	
Dibromomethane	ND	0.79	1.00	
1,2-Dichlorobenzene	ND	0.79	1.00	
1,3-Dichlorobenzene	ND	0.79	1.00	
1,4-Dichlorobenzene	ND	0.79	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.79	1.00	
1,2-Dichloroethane	ND	0.79	1.00	
1,1-Dichloroethene	ND	0.79	1.00	
c-1,2-Dichloroethene	ND	0.79	1.00	
t-1,2-Dichloroethene	ND	0.79	1.00	
1,2-Dichloropropane	ND	0.79	1.00	
1,3-Dichloropropane	ND	0.79	1.00	
2,2-Dichloropropane	ND	4.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 5 of 12

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.79	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.79	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.79	1.00	
p-Isopropyltoluene	ND	0.79	1.00	
Methylene Chloride	ND	7.9	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.9	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.79	1.00	
1,1,1,2-Tetrachloroethane	ND	0.79	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.79	1.00	
Toluene	ND	0.79	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.9	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.9	1.00	
Vinyl Chloride	ND	0.79	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.79	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.79	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.79	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.79	1.00	
Ethanol	ND	400	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/30/19
1 Technology Drive, Suite C515	Work Order:	19-04-2366
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	106	79-133	
1,2-Dichloroethane-d4	118	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-2	**19-04-2366-4-C**	**04/30/19 10:30**	**Solid**	**GC/MS QQ**	**04/30/19**	**05/03/19 19:07**	**190503L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	46	39	1.00	
Benzene	0.86	0.78	1.00	
Bromobenzene	ND	0.78	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.78	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.78	1.00	
sec-Butylbenzene	ND	0.78	1.00	
tert-Butylbenzene	ND	0.78	1.00	
Carbon Disulfide	ND	7.8	1.00	
Carbon Tetrachloride	ND	0.78	1.00	
Chlorobenzene	ND	0.78	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.78	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.78	1.00	
4-Chlorotoluene	ND	0.78	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.78	1.00	
Dibromomethane	ND	0.78	1.00	
1,2-Dichlorobenzene	ND	0.78	1.00	
1,3-Dichlorobenzene	ND	0.78	1.00	
1,4-Dichlorobenzene	ND	0.78	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.78	1.00	
1,2-Dichloroethane	ND	0.78	1.00	
1,1-Dichloroethene	ND	0.78	1.00	
c-1,2-Dichloroethene	ND	0.78	1.00	
t-1,2-Dichloroethene	ND	0.78	1.00	
1,2-Dichloropropane	ND	0.78	1.00	
1,3-Dichloropropane	ND	0.78	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 8 of 12

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.78	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.78	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.78	1.00	
p-Isopropyltoluene	ND	0.78	1.00	
Methylene Chloride	ND	7.8	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.8	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.78	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.78	1.00	
Toluene	ND	0.78	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.8	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.8	1.00	
Vinyl Chloride	ND	0.78	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.78	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.78	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	1.00	
Ethanol	ND	390	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/30/19
1 Technology Drive, Suite C515	Work Order:	19-04-2366
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	109	79-133	
1,2-Dichloroethane-d4	119	71-155	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-31009**	**N/A**	**Solid**	**GC/MS QQ**	**05/03/19**	**05/03/19 11:53**	**190503L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 11 of 12

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/30/19
1 Technology Drive, Suite C515	Work Order:	19-04-2366
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	104	71-155	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-05-0206-1	**Sample**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 17:44**	**190503S08**
19-05-0206-1	**Matrix Spike**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 17:02**	**190503S08**
19-05-0206-1	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 17:22**	**190503S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	366.7	92	369.7	92	64-130	1	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-05-0206-1	**Sample**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 17:44**	**190503S08**
19-05-0206-1	**Matrix Spike**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 17:02**	**190503S08**
19-05-0206-1	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 17:22**	**190503S08**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
n-Octacosane	50.00	45.16	90	46.88	94	61-145	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-3588	**LCS**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 16:42**	**190503B08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	371.1	93	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-3588	**LCS**	**Solid**	**GC 50**	**05/03/19**	**05/03/19 16:42**	**190503B08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
n-Octacosane	50.00	47.22	94	61-145	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-31009	**LCS**	**Solid**	**GC/MS QQ**	**05/03/19**	**05/03/19 10:18**	**190503L015**
095-01-025-31009	**LCSD**	**Solid**	**GC/MS QQ**	**05/03/19**	**05/03/19 10:47**	**190503L015**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.50	101	49.73	99	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	54.28	109	52.43	105	65-137	53-149	3	0-20	
Chlorobenzene	50.00	50.08	100	49.26	99	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	51.35	103	51.64	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	51.48	103	51.17	102	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	51.45	103	50.82	102	80-120	73-127	1	0-20	
1,1-Dichloroethene	50.00	53.05	106	52.63	105	68-128	58-138	1	0-20	
Ethylbenzene	50.00	53.54	107	52.30	105	80-120	73-127	2	0-20	
Toluene	50.00	51.18	102	50.18	100	80-120	73-127	2	0-20	
Trichloroethene	50.00	49.86	100	48.99	98	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	46.57	93	45.24	90	67-127	57-137	3	0-20	
p/m-Xylene	100.0	110.8	111	108.2	108	75-125	67-133	2	0-25	
o-Xylene	50.00	52.51	105	51.49	103	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.68	87	43.85	88	70-124	61-133	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	258.3	103	248.5	99	73-121	65-129	4	0-20	
Diisopropyl Ether (DIPE)	50.00	50.69	101	50.44	101	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.40	95	47.72	95	70-124	61-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.47	103	51.98	104	74-122	66-130	1	0-20	
Ethanol	500.0	559.0	112	515.2	103	51-135	37-149	8	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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LCS/LCSD - Surrogate

Avocet Environmental, Inc.		Date Received:	04/30/19
1 Technology Drive, Suite C515		Work Order:	19-04-2366
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.003			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-31009	**LCS**	**Solid**	**GC/MS QQ**	**05/03/19**	**05/03/19 10:18**	**190503L015**
095-01-025-31009	**LCSD**	**Solid**	**GC/MS QQ**	**05/03/19**	**05/03/19 10:47**	**190503L015**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	250.0	251.0	100	249.6	100	80-120	
Dibromofluoromethane	250.0	251.3	101	249.3	100	79-133	
1,2-Dichloroethane-d4	250.0	247.9	99	248.4	99	71-155	
Toluene-d8	250.0	253.4	101	250.4	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-04-2366

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 3550B	972	GC 50	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2

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Glossary of Terms and Qualifiers

Work Order: 19-04-2366 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AVOCET ENVIRONMENTAL, INC.
1 Technology Drive, Suite C515
Irvine, California 92618-5302
TEL (949) 296-0977
FAX (949) 296-0978

Sheet 1 of 1

CHAIN OF CUSTODY RECORD

19-04-2366

Project Information:	Event Name:
Site Name	Panattoni: SWC 9th Street & Vineyard Avenue
Site Location	Rancho Cucamonga, California
Project No.	1592.003
Project Manager	Philip Miller
Sampled By	SF
Turnaround Time	Standard

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs, inc. fuel oxys, using EPA Method 5035/8260B	TPH-cc using EPA Method 8015(M)
B8-2R	4/30/2019	13:20	Soil	4	1	x	X
B9-2	4/30/2019	12:30	Soil	4	2	x	x
~~B9-~~	~~4/30/2019~~		~~Soil~~	~~4~~		~~x~~	~~x~~
B10-	4/30/2019	11:00	Soil	4	3	x	x
~~B10-~~	~~4/30/2019~~		~~Soil~~	~~4~~		~~x~~	~~x~~
B11-	4/30/2019	10:30	Soil	4	4	x	x
~~B11~~	~~4/30/2019~~		~~Soil~~	~~4~~		~~x~~	~~x~~

Relinquished by		Company	Received by		Company
Printed Name: Spencer Fellman	Date: 4/30/19	Avocet Environmental, Inc.	Printed Name: Marybel Ramos	Date: 4/30/19	
Signature:	Time: 15:12		Signature:	Time: 15:12	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt		Billing Information	Special Instructions
Total Containers	TAT	Bill To: Philip Miller, P.E. AVOCET ENVIRONMENTAL, INC. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Please bill to Avocet. If any Questions, please call Phil Miller @ 949-296-0977 Ext.102
Temperature °C °F	Lab No.		
COC Seal (Y/N/NA)	Intact (Y/N)		

P:\1592 Panattoni 9th and Vineyard RC\002_Phase II Investigation\Blank Field Docs\Chain of Custody 2019-04-25 Soil

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1 Technology Drive, Suite C515
Irvine, California 92618-5302
TEL (949) 296-0977
FAX (949) 296-0978

Sheet 1 of 1

CHAIN OF CUSTODY RECORD

19-04-2366

Project Information: Event Name:

Site Name	Panattoni: SWC 9th Street & Vineyard Avenue
Site Location	Rancho Cucamonga, California
Project No	1592.003
Project Manager	Philip Miller
Sampled By	SF
Turnaround Time	Standard

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs, inc fuel oxys. using EPA Method 5035/8260B	TPH-cc using EPA Method 8015(M)	HOLD
B8- ZR	4/30/2019	13:20	Soil	4	1	~~x~~	~~x~~	X
B9- Z	4/30/2019	12:30	Soil	4	2	x	x	
~~B9~~	~~4/30/2019~~		~~Soil~~	~~4~~		~~x~~	~~x~~	
B10- Z	4/30/2019	11:00	Soil	4	3	x	x	
~~B10~~	~~4/30/2019~~		~~Soil~~	~~4~~		~~x~~	~~x~~	
B11- Z	4/30/2019	10:30	Soil	4	4	x	x	
~~B11~~	~~4/30/2019~~		~~Soil~~	~~4~~		~~x~~	~~x~~	

Revised 4/30/19

Relinquished by		Company	Received by		Company
Printed Name: Spencer Fellows	Date: 4/30/19	Avocet Environmental, Inc	Printed Name: Maribel Ramos	Date: 4/30/19	
Signature: [signature]	Time: 15:12		Signature: [signature] CC	Time: 15:12	
Printed Name	Date		Printed Name	Date	
Signature	Time		Signature	Time	
Printed Name	Date		Printed Name	Date	
Signature	Time		Signature	Time	

Sample Receipt		Billing Information	Special Instructions
Total Containers	TAT	Bill To: Philip Miller, P.E. AVOCET ENVIRONMENTAL, INC 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Please bill to Avocet. If any Questions, please call Phil Miller @ 949-296-0977 Ext 102
Temperature °C ___ °F ___	Lab No		
COC Seal (Y/N/NA)	Intact (Y/N)		

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WORK ORDER NUMBER: 19-04-2366

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: AVOCET

DATE: 04/30/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): 3.2 °C (w/ CF): 3.0 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 1017

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (3) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1053

Reviewed by: 617

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Attachment 4

Laboratory Analytical Report,
Soil Vapor Samples

AVOCET
ENVIRONMENTAL, INC.

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WORK ORDER NUMBER: 19-04-1285

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002

Attention: Phil Miller
1 Technology Drive
Suite C515
Irvine, CA 92618-5302

Approved for release on 04/23/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002
Work Order Number: 19-04-1285

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Work Order Narrative

Work Order: 19-04-1285 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/16/19. They were assigned to Work Order 19-04-1285.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1285
		Project Name:	Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002
		PO Number:	
		Date/Time Received:	04/16/19 14:53
		Number of Containers:	11
Attn:	Phil Miller		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SV-1-5	19-04-1285-1	04/16/19 10:28	1	Air
SV-1-15	19-04-1285-2	04/16/19 10:31	1	Air
SV-2-5	19-04-1285-3	04/16/19 11:06	1	Air
SV-2-15	19-04-1285-4	04/16/19 11:09	1	Air
SV-3-5	19-04-1285-5	04/16/19 11:24	1	Air
SV-3-14	19-04-1285-6	04/16/19 11:25	1	Air
SV-4-5	19-04-1285-7	04/16/19 13:16	1	Air
SV-4-15	19-04-1285-8	04/16/19 13:17	1	Air
SV-5-5	19-04-1285-9	04/16/19 13:04	1	Air
SV-5-15	19-04-1285-10	04/16/19 13:05	1	Air
SV-5-15R	19-04-1285-11	04/16/19 13:12	1	Air

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1285
		Project Name:	Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002
		Received:	04/16/19
Attn:	Phil Miller		Page 1 of 2

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SV-1-5 (19-04-1285-1)						
Acetone	20		4.8	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	2.7		2.5	ug/m3	EPA TO-15	N/A
Tetrachloroethene	6.9		3.4	ug/m3	EPA TO-15	N/A
Toluene	75		1.9	ug/m3	EPA TO-15	N/A
SV-1-15 (19-04-1285-2)						
Acetone	13		4.9	ug/m3	EPA TO-15	N/A
Toluene	64		1.9	ug/m3	EPA TO-15	N/A
SV-2-5 (19-04-1285-3)						
Acetone	7.8		4.8	ug/m3	EPA TO-15	N/A
Tetrachloroethene	5.3		3.4	ug/m3	EPA TO-15	N/A
Toluene	38		1.9	ug/m3	EPA TO-15	N/A
1,1-Difluoroethane	13		5.4	ug/m3	EPA TO-15	N/A
SV-2-15 (19-04-1285-4)						
Acetone	8.8		4.8	ug/m3	EPA TO-15	N/A
Tetrachloroethene	4.4		3.4	ug/m3	EPA TO-15	N/A
Toluene	20		1.9	ug/m3	EPA TO-15	N/A
Trichloroethene	27		2.7	ug/m3	EPA TO-15	N/A
1,1-Difluoroethane	5.8		5.4	ug/m3	EPA TO-15	N/A
SV-3-5 (19-04-1285-5)						
Acetone	14		4.8	ug/m3	EPA TO-15	N/A
Ethylbenzene	2.5		2.2	ug/m3	EPA TO-15	N/A
Tetrachloroethene	7.9		3.4	ug/m3	EPA TO-15	N/A
Toluene	26		1.9	ug/m3	EPA TO-15	N/A
1,1-Difluoroethane	6.5		5.4	ug/m3	EPA TO-15	N/A
SV-3-14 (19-04-1285-6)						
Acetone	25		4.8	ug/m3	EPA TO-15	N/A
2-Butanone	5.4		4.4	ug/m3	EPA TO-15	N/A
Carbon Disulfide	24		6.2	ug/m3	EPA TO-15	N/A
Trichloroethene	7.5		2.7	ug/m3	EPA TO-15	N/A
SV-4-5 (19-04-1285-7)						
Toluene	8.4		3.9	ug/m3	EPA TO-15	N/A

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* MDL is shown

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	19-04-1285
		Project Name:	Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002
		Received:	04/16/19
Attn:	Phil Miller		Page 2 of 2

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SV-4-15 (19-04-1285-8)						
Acetone	26		4.8	ug/m3	EPA TO-15	N/A
2-Butanone	5.3		4.4	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	3.2		2.5	ug/m3	EPA TO-15	N/A
Tetrachloroethene	11		3.4	ug/m3	EPA TO-15	N/A
Toluene	12		1.9	ug/m3	EPA TO-15	N/A
Trichloroethene	10		2.7	ug/m3	EPA TO-15	N/A
SV-5-5 (19-04-1285-9)						
Acetone	9.1		4.8	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	3.0		2.5	ug/m3	EPA TO-15	N/A
Ethylbenzene	3.9		2.2	ug/m3	EPA TO-15	N/A
Tetrachloroethene	6.1		3.4	ug/m3	EPA TO-15	N/A
Toluene	16		1.9	ug/m3	EPA TO-15	N/A
SV-5-15 (19-04-1285-10)						
Acetone	14		4.8	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	3.3		2.5	ug/m3	EPA TO-15	N/A
Trichloroethene	35		2.7	ug/m3	EPA TO-15	N/A
SV-5-15R (19-04-1285-11)						
Acetone	5.6		4.8	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	3.3		2.5	ug/m3	EPA TO-15	N/A
Tetrachloroethene	13		3.4	ug/m3	EPA TO-15	N/A
Toluene	7.3		1.9	ug/m3	EPA TO-15	N/A
Trichloroethene	13		2.7	ug/m3	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 1 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-5	**19-04-1285-1-A**	**04/16/19 10:28**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 00:23**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	20	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	2.7	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 2 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	6.9	3.4	1.00	
Toluene	75	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-134	
1,2-Dichloroethane-d4	99	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 3 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-1-15	**19-04-1285-2-A**	**04/16/19 10:31**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 01:41**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	13	4.9	1.03	
Benzene	ND	1.6	1.03	
Benzyl Chloride	ND	11	1.03	
Bromodichloromethane	ND	3.5	1.03	
Bromoform	ND	5.3	1.03	
Bromomethane	ND	2.0	1.03	
2-Butanone	ND	4.6	1.03	
Carbon Disulfide	ND	6.4	1.03	
Carbon Tetrachloride	ND	3.2	1.03	
Chlorobenzene	ND	2.4	1.03	
Chloroethane	ND	1.4	1.03	
Chloroform	ND	2.5	1.03	
Chloromethane	ND	2.1	1.03	
Dibromochloromethane	ND	4.4	1.03	
Dichlorodifluoromethane	ND	2.5	1.03	
Diisopropyl Ether (DIPE)	ND	8.6	1.03	
1,1-Dichloroethane	ND	2.1	1.03	
1,1-Dichloroethene	ND	2.0	1.03	
1,2-Dibromoethane	ND	4.0	1.03	
Dichlorotetrafluoroethane	ND	14	1.03	
1,2-Dichlorobenzene	ND	3.1	1.03	
1,2-Dichloroethane	ND	2.1	1.03	
1,2-Dichloropropane	ND	2.4	1.03	
1,3-Dichlorobenzene	ND	3.1	1.03	
1,4-Dichlorobenzene	ND	3.1	1.03	
c-1,3-Dichloropropene	ND	2.3	1.03	
c-1,2-Dichloroethene	ND	2.0	1.03	
t-1,2-Dichloroethene	ND	2.0	1.03	
t-1,3-Dichloropropene	ND	4.7	1.03	
Ethyl-t-Butyl Ether (ETBE)	ND	8.6	1.03	
Ethylbenzene	ND	2.2	1.03	
4-Ethyltoluene	ND	5.1	1.03	
Hexachloro-1,3-Butadiene	ND	16	1.03	
2-Hexanone	ND	6.3	1.03	
Methyl-t-Butyl Ether (MTBE)	ND	7.4	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 4 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	18	1.03	
4-Methyl-2-Pentanone	ND	6.3	1.03	
Naphthalene	ND	27	1.03	
o-Xylene	ND	8.9	1.03	
p/m-Xylene	ND	18	1.03	
Styrene	ND	6.6	1.03	
Tert-Amyl-Methyl Ether (TAME)	ND	8.6	1.03	
Tert-Butyl Alcohol (TBA)	ND	6.2	1.03	
Tetrachloroethene	ND	3.5	1.03	
Toluene	64	1.9	1.03	
Trichloroethene	ND	2.8	1.03	
Trichlorofluoromethane	ND	5.8	1.03	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.03	
1,1,1-Trichloroethane	ND	2.8	1.03	
1,1,2-Trichloroethane	ND	2.8	1.03	
1,3,5-Trimethylbenzene	ND	5.1	1.03	
1,1,2,2-Tetrachloroethane	ND	7.1	1.03	
1,2,4-Trimethylbenzene	ND	7.6	1.03	
1,2,4-Trichlorobenzene	ND	15	1.03	
Vinyl Acetate	ND	7.3	1.03	
Vinyl Chloride	ND	1.3	1.03	
1,1-Difluoroethane	ND	5.6	1.03	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 5 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-5	**19-04-1285-3-A**	**04/16/19 11:06**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 02:58**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	7.8	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 6 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	5.3	3.4	1.00	
Toluene	38	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	13	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	100	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 7 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-2-15	**19-04-1285-4-A**	**04/16/19 11:09**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 03:56**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	8.8	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 8 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	4.4	3.4	1.00	
Toluene	20	1.9	1.00	
Trichloroethene	27	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	5.8	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 9 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-5	**19-04-1285-5-A**	**04/16/19 11:24**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 04:50**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	14	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	2.5	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 10 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	7.9	3.4	1.00	
Toluene	26	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	6.5	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 11 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-3-14	**19-04-1285-6-A**	**04/16/19 11:25**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 05:43**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	25	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	5.4	4.4	1.00	
Carbon Disulfide	24	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 12 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	7.5	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 13 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-5	**19-04-1285-7-A**	**04/16/19 13:16**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 10:14**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	9.8	2.06	
Benzene	ND	3.3	2.06	
Benzyl Chloride	ND	21	2.06	
Bromodichloromethane	ND	6.9	2.06	
Bromoform	ND	11	2.06	
Bromomethane	ND	4.0	2.06	
2-Butanone	ND	9.1	2.06	
Carbon Disulfide	ND	13	2.06	
Carbon Tetrachloride	ND	6.5	2.06	
Chlorobenzene	ND	4.7	2.06	
Chloroethane	ND	2.7	2.06	
Chloroform	ND	5.0	2.06	
Chloromethane	ND	4.3	2.06	
Dibromochloromethane	ND	8.8	2.06	
Dichlorodifluoromethane	ND	5.1	2.06	
Diisopropyl Ether (DIPE)	ND	17	2.06	
1,1-Dichloroethane	ND	4.2	2.06	
1,1-Dichloroethene	ND	4.1	2.06	
1,2-Dibromoethane	ND	7.9	2.06	
Dichlorotetrafluoroethane	ND	29	2.06	
1,2-Dichlorobenzene	ND	6.2	2.06	
1,2-Dichloroethane	ND	4.2	2.06	
1,2-Dichloropropane	ND	4.8	2.06	
1,3-Dichlorobenzene	ND	6.2	2.06	
1,4-Dichlorobenzene	ND	6.2	2.06	
c-1,3-Dichloropropene	ND	4.7	2.06	
c-1,2-Dichloroethene	ND	4.1	2.06	
t-1,2-Dichloroethene	ND	4.1	2.06	
t-1,3-Dichloropropene	ND	9.3	2.06	
Ethyl-t-Butyl Ether (ETBE)	ND	17	2.06	
Ethylbenzene	ND	4.5	2.06	
4-Ethyltoluene	ND	10	2.06	
Hexachloro-1,3-Butadiene	ND	33	2.06	
2-Hexanone	ND	13	2.06	
Methyl-t-Butyl Ether (MTBE)	ND	15	2.06	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 14 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	36	2.06	
4-Methyl-2-Pentanone	ND	13	2.06	
Naphthalene	ND	54	2.06	
o-Xylene	ND	18	2.06	
p/m-Xylene	ND	36	2.06	
Styrene	ND	13	2.06	
Tert-Amyl-Methyl Ether (TAME)	ND	17	2.06	
Tert-Butyl Alcohol (TBA)	ND	12	2.06	
Tetrachloroethene	ND	7.0	2.06	
Toluene	8.4	3.9	2.06	
Trichloroethene	ND	5.5	2.06	
Trichlorofluoromethane	ND	12	2.06	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	24	2.06	
1,1,1-Trichloroethane	ND	5.6	2.06	
1,1,2-Trichloroethane	ND	5.6	2.06	
1,3,5-Trimethylbenzene	ND	10	2.06	
1,1,2,2-Tetrachloroethane	ND	14	2.06	
1,2,4-Trimethylbenzene	ND	15	2.06	
1,2,4-Trichlorobenzene	ND	31	2.06	
Vinyl Acetate	ND	15	2.06	
Vinyl Chloride	ND	2.6	2.06	
1,1-Difluoroethane	ND	11	2.06	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	102	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 15 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-4-15	**19-04-1285-8-A**	**04/16/19 13:17**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 16:08**	**190417L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	26	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	5.3	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	3.2	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 16 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	11	3.4	1.00	
Toluene	12	1.9	1.00	
Trichloroethene	10	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	102	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 17 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-5	**19-04-1285-9-A**	**04/16/19 13:04**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 17:02**	**190417L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	9.1	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	3.0	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	3.9	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.	Date Received:	04/16/19
1 Technology Drive, Suite C515	Work Order:	19-04-1285
Irvine, CA 92618-5302	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002		Page 18 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	6.1	3.4	1.00	
Toluene	16	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-134	
1,2-Dichloroethane-d4	101	67-133	
Toluene-d8	102	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 19 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-15	**19-04-1285-10-A**	**04/16/19 13:05**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 17:54**	**190417L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	14	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	3.3	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 20 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	35	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-134	
1,2-Dichloroethane-d4	99	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 21 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-5-15R	**19-04-1285-11-A**	**04/16/19 13:12**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 18:48**	**190417L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	5.6	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	3.3	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 22 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	13	3.4	1.00	
Toluene	7.3	1.9	1.00	
Trichloroethene	13	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-134	
1,2-Dichloroethane-d4	99	67-133	
Toluene-d8	100	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 23 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-21647**	**N/A**	**Air**	**GC/MS ZZ**	**N/A**	**04/16/19 14:22**	**190416L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 24 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-134	
1,2-Dichloroethane-d4	98	67-133	
Toluene-d8	100	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 25 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-21654**	**N/A**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 15:16**	**190417L01**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	10	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	2.1	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	4.9	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 26 of 26

Parameter	Result	RL	DF	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	8.7	1.00	
p/m-Xylene	ND	17	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
1,1-Difluoroethane	ND	5.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-134	
1,2-Dichloroethane-d4	99	67-133	
Toluene-d8	101	70-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-21647	**LCS**	**Air**	**GC/MS ZZ**	**N/A**	**04/16/19 11:57**	**190416L01**
095-01-021-21647	**LCSD**	**Air**	**GC/MS ZZ**	**N/A**	**04/16/19 12:45**	**190416L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	63.37	107	63.33	107	67-133	56-144	0	0-30	
Benzene	79.87	86.06	108	86.97	109	70-130	60-140	1	0-30	
Benzyl Chloride	129.4	126.9	98	126.5	98	38-158	18-178	0	0-30	
Bromodichloromethane	167.5	174.9	104	174.9	104	70-130	60-140	0	0-30	
Bromoform	258.4	256.0	99	256.9	99	63-147	49-161	0	0-30	
Bromomethane	97.08	102.1	105	102.3	105	70-139	58-150	0	0-30	
2-Butanone	73.73	73.72	100	73.90	100	66-132	55-143	0	0-30	
Carbon Disulfide	77.85	84.86	109	85.01	109	68-146	55-159	0	0-30	
Carbon Tetrachloride	157.3	166.6	106	166.7	106	70-136	59-147	0	0-30	
Chlorobenzene	115.1	118.1	103	119.5	104	70-130	60-140	1	0-30	
Chloroethane	65.96	69.70	106	69.66	106	65-149	51-163	0	0-30	
Chloroform	122.1	120.1	98	120.4	99	70-130	60-140	0	0-30	
Chloromethane	51.63	53.53	104	54.03	105	69-141	57-153	1	0-30	
Dibromochloromethane	213.0	217.5	102	219.1	103	70-138	59-149	1	0-30	
Dichlorodifluoromethane	123.6	121.5	98	121.3	98	67-139	55-151	0	0-30	
Diisopropyl Ether (DIPE)	104.5	93.36	89	93.77	90	63-130	52-141	0	0-30	
1,1-Dichloroethane	101.2	102.6	101	102.9	102	70-130	60-140	0	0-30	
1,1-Dichloroethene	99.12	94.65	95	94.87	96	70-135	59-146	0	0-30	
1,2-Dibromoethane	192.1	211.5	110	212.9	111	70-133	60-144	1	0-30	
Dichlorotetrafluoroethane	174.8	181.8	104	183.0	105	51-135	37-149	1	0-30	
1,2-Dichlorobenzene	150.3	156.0	104	155.9	104	48-138	33-153	0	0-30	
1,2-Dichloroethane	101.2	103.7	103	103.2	102	70-132	60-142	0	0-30	
1,2-Dichloropropane	115.5	123.8	107	124.5	108	70-130	60-140	1	0-30	
1,3-Dichlorobenzene	150.3	158.1	105	159.1	106	56-134	43-147	1	0-30	
1,4-Dichlorobenzene	150.3	156.8	104	157.3	105	52-136	38-150	0	0-30	
c-1,3-Dichloropropene	113.5	118.8	105	119.0	105	70-130	60-140	0	0-30	
c-1,2-Dichloroethene	99.12	101.6	102	102.3	103	70-130	60-140	1	0-30	
t-1,2-Dichloroethene	99.12	106.8	108	107.6	109	70-130	60-140	1	0-30	
t-1,3-Dichloropropene	113.5	127.2	112	128.4	113	70-147	57-160	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	104.5	96.71	93	96.86	93	67-130	56-140	0	0-30	
Ethylbenzene	108.6	114.0	105	114.9	106	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	126.7	103	128.1	104	68-130	58-140	1	0-30	
Hexachloro-1,3-Butadiene	266.6	212.7	80	214.7	81	44-146	27-163	1	0-30	
2-Hexanone	102.4	105.9	103	106.6	104	70-136	59-147	1	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	89.43	99	89.78	100	68-130	58-140	0	0-30	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 2 of 4

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Methylene Chloride	86.84	83.88	97	84.05	97	69-130	59-140	0	0-30	
4-Methyl-2-Pentanone	102.4	105.5	103	105.9	103	70-130	60-140	0	0-30	
Naphthalene	131.1	106.5	81	108.4	83	24-144	4-164	2	0-30	
o-Xylene	108.6	108.0	99	108.1	100	69-130	59-140	0	0-30	
p/m-Xylene	217.1	220.1	101	221.6	102	70-132	60-142	1	0-30	
Styrene	106.5	109.0	102	109.0	102	65-131	54-142	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	102.4	98	102.3	98	69-130	59-140	0	0-30	
Tert-Butyl Alcohol (TBA)	151.6	137.9	91	139.3	92	66-144	53-157	1	0-30	
Tetrachloroethene	169.6	173.6	102	173.9	103	70-130	60-140	0	0-30	
Toluene	94.21	95.60	101	96.35	102	70-130	60-140	1	0-30	
Trichloroethene	134.3	142.0	106	142.2	106	70-130	60-140	0	0-30	
Trichlorofluoromethane	140.5	138.6	99	138.2	98	63-141	50-154	0	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	183.3	96	183.7	96	70-136	59-147	0	0-30	
1,1,1-Trichloroethane	136.4	140.0	103	139.8	102	70-130	60-140	0	0-30	
1,1,2-Trichloroethane	136.4	148.7	109	148.9	109	70-130	60-140	0	0-30	
1,3,5-Trimethylbenzene	122.9	128.3	104	128.5	105	62-130	51-141	0	0-30	
1,1,2,2-Tetrachloroethane	171.6	180.1	105	181.8	106	63-130	52-141	1	0-30	
1,2,4-Trimethylbenzene	122.9	126.6	103	126.4	103	60-132	48-144	0	0-30	
1,2,4-Trichlorobenzene	185.5	143.0	77	145.5	78	31-151	11-171	2	0-30	
Vinyl Acetate	88.03	84.96	97	84.87	96	58-130	46-142	0	0-30	
Vinyl Chloride	63.91	67.39	105	67.56	106	70-134	59-145	0	0-30	
1,1-Difluoroethane	67.54	60.28	89	60.65	90	70-131	60-141	1	0-30	

Total number of LCS compounds: 57
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-21654	**LCS**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 12:52**	**190417L01**
095-01-021-21654	**LCSD**	**Air**	**GC/MS ZZ**	**N/A**	**04/17/19 13:41**	**190417L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	65.10	110	64.49	109	67-133	56-144	1	0-30	
Benzene	79.87	87.94	110	86.85	109	70-130	60-140	1	0-30	
Benzyl Chloride	129.4	128.1	99	127.3	98	38-158	18-178	1	0-30	
Bromodichloromethane	167.5	178.5	107	177.5	106	70-130	60-140	1	0-30	
Bromoform	258.4	260.6	101	258.6	100	63-147	49-161	1	0-30	
Bromomethane	97.08	105.0	108	104.8	108	70-139	58-150	0	0-30	
2-Butanone	73.73	76.31	103	75.62	103	66-132	55-143	1	0-30	
Carbon Disulfide	77.85	87.67	113	86.84	112	68-146	55-159	1	0-30	
Carbon Tetrachloride	157.3	170.2	108	170.0	108	70-136	59-147	0	0-30	
Chlorobenzene	115.1	120.8	105	120.0	104	70-130	60-140	1	0-30	
Chloroethane	65.96	72.05	109	70.83	107	65-149	51-163	2	0-30	
Chloroform	122.1	123.3	101	122.3	100	70-130	60-140	1	0-30	
Chloromethane	51.63	55.73	108	56.21	109	69-141	57-153	1	0-30	
Dibromochloromethane	213.0	222.6	105	221.0	104	70-138	59-149	1	0-30	
Dichlorodifluoromethane	123.6	124.7	101	124.5	101	67-139	55-151	0	0-30	
Diisopropyl Ether (DIPE)	104.5	96.74	93	96.02	92	63-130	52-141	1	0-30	
1,1-Dichloroethane	101.2	105.9	105	104.4	103	70-130	60-140	1	0-30	
1,1-Dichloroethene	99.12	97.44	98	96.77	98	70-135	59-146	1	0-30	
1,2-Dibromoethane	192.1	216.7	113	215.7	112	70-133	60-144	0	0-30	
Dichlorotetrafluoroethane	174.8	189.8	109	189.3	108	51-135	37-149	0	0-30	
1,2-Dichlorobenzene	150.3	159.1	106	157.7	105	48-138	33-153	1	0-30	
1,2-Dichloroethane	101.2	106.3	105	105.6	104	70-132	60-142	1	0-30	
1,2-Dichloropropane	115.5	126.2	109	126.2	109	70-130	60-140	0	0-30	
1,3-Dichlorobenzene	150.3	162.0	108	160.6	107	56-134	43-147	1	0-30	
1,4-Dichlorobenzene	150.3	160.8	107	159.6	106	52-136	38-150	1	0-30	
c-1,3-Dichloropropene	113.5	120.9	107	120.0	106	70-130	60-140	1	0-30	
c-1,2-Dichloroethene	99.12	104.1	105	103.3	104	70-130	60-140	1	0-30	
t-1,2-Dichloroethene	99.12	109.3	110	108.7	110	70-130	60-140	1	0-30	
t-1,3-Dichloropropene	113.5	127.8	113	128.6	113	70-147	57-160	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	104.5	97.55	93	97.42	93	67-130	56-140	0	0-30	
Ethylbenzene	108.6	116.6	107	115.5	106	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	130.4	106	128.4	105	68-130	58-140	2	0-30	
Hexachloro-1,3-Butadiene	266.6	216.6	81	215.3	81	44-146	27-163	1	0-30	
2-Hexanone	102.4	108.7	106	107.9	105	70-136	59-147	1	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	90.34	100	89.38	99	68-130	58-140	1	0-30	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	04/16/19
1 Technology Drive, Suite C515		Work Order:	19-04-1285
Irvine, CA 92618-5302		Preparation:	N/A
		Method:	EPA TO-15
Project: Panattoni: SWC 9th Street & Vineyard Avenue / 1592.002			Page 4 of 4

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Methylene Chloride	86.84	86.09	99	85.40	98	69-130	59-140	1	0-30	
4-Methyl-2-Pentanone	102.4	107.3	105	107.0	105	70-130	60-140	0	0-30	
Naphthalene	131.1	111.0	85	109.2	83	24-144	4-164	2	0-30	
o-Xylene	108.6	111.0	102	109.3	101	69-130	59-140	2	0-30	
p/m-Xylene	217.1	226.5	104	222.0	102	70-132	60-142	2	0-30	
Styrene	106.5	111.1	104	110.2	103	65-131	54-142	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	102.8	98	102.3	98	69-130	59-140	0	0-30	
Tert-Butyl Alcohol (TBA)	151.6	140.6	93	139.4	92	66-144	53-157	1	0-30	
Tetrachloroethene	169.6	176.5	104	174.3	103	70-130	60-140	1	0-30	
Toluene	94.21	98.11	104	97.32	103	70-130	60-140	1	0-30	
Trichloroethene	134.3	144.5	108	144.0	107	70-130	60-140	0	0-30	
Trichlorofluoromethane	140.5	142.3	101	141.3	101	63-141	50-154	1	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	188.2	98	186.3	97	70-136	59-147	1	0-30	
1,1,1-Trichloroethane	136.4	143.4	105	141.7	104	70-130	60-140	1	0-30	
1,1,2-Trichloroethane	136.4	152.2	112	151.0	111	70-130	60-140	1	0-30	
1,3,5-Trimethylbenzene	122.9	131.9	107	130.5	106	62-130	51-141	1	0-30	
1,1,2,2-Tetrachloroethane	171.6	185.9	108	184.1	107	63-130	52-141	1	0-30	
1,2,4-Trimethylbenzene	122.9	128.9	105	128.1	104	60-132	48-144	1	0-30	
1,2,4-Trichlorobenzene	185.5	148.8	80	146.4	79	31-151	11-171	2	0-30	
Vinyl Acetate	88.03	86.50	98	85.91	98	58-130	46-142	1	0-30	
Vinyl Chloride	63.91	70.01	110	70.32	110	70-134	59-145	0	0-30	
1,1-Difluoroethane	67.54	62.26	92	61.78	91	70-131	60-141	1	0-30	

Total number of LCS compounds: 57
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Summa Canister Vacuum Summary

Work Order: 19-04-1285

Sample Name	Vacuum Out	Vacuum In	Equipment	Description
SV-1-5	-29.50 in Hg	-3.00 in Hg	LC588	Summa Canister 1L
SV-1-15	-29.50 in Hg	-5.20 in Hg	LC326	Summa Canister 1L
SV-2-5	-29.50 in Hg	-4.60 in Hg	LC246	Summa Canister 1L
SV-2-15	-29.50 in Hg	-3.80 in Hg	LC305	Summa Canister 1L
SV-3-5	-29.50 in Hg	-2.60 in Hg	LC728	Summa Canister 1L
SV-3-14	-29.50 in Hg	-2.20 in Hg	LC816	Summa Canister 1L
SV-4-5	-29.50 in Hg	-4.00 in Hg	LC1169	Summa Canister 1L
SV-4-15	-29.50 in Hg	-1.20 in Hg	SLC122	Summa Canister 1L
SV-5-5	-29.50 in Hg	-3.80 in Hg	LC1174	Summa Canister 1L
SV-5-15	-29.50 in Hg	-1.20 in Hg	LC100	Summa Canister 1L
SV-5-15R	-29.50 in Hg	-3.00 in Hg	LC517	Summa Canister 1L

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Sample Analysis Summary Report

Work Order: 19-04-1285

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA TO-15	N/A	1145	GC/MS ZZ	2

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Glossary of Terms and Qualifiers

Work Order: 19-04-1285 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AVOCET ENVIRONMENTAL, INC.
1 Technology Drive, Suite C515
Irvine, California 92618-5302
TEL (949) 296-0977
FAX (949) 296-0978

Sheet 1 of 1

CHAIN OF CUSTODY RECORD

19-04-1285

Project Information:	Event Name:
Site Name	Panattoni: SWC 9th Street & Vineyard Avenue
Site Location	Rancho Cucamonga, California
Project No.	1592.002
Project Manager	Philip Miller
Sampled By	SF
Turnaround Time	Standard

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs using EPA Method TO-15 including Napthalene and 1,1 Difluoroethane + OXYS	Hold	
SV-1-5	4/16/19	10:28	Soil Vapor	1	1	X		
SV-1-15		10:31	Soil Vapor	1	2	X		
SV-2-5		11:06	Soil Vapor	1	3	X		
SV-2-15		11:09	Soil Vapor	1	4	X		
SV-3-5		11:24	Soil Vapor	1	5	X		
SV-3-14		11:25	Soil Vapor	1	6	X		
SV-4-5		13:16	Soil Vapor	1	7	X		
SV-4-15		13:17	Soil Vapor	1	8	X		
SV-5-5		13:04	Soil Vapor	1	9	X		
SV-5-15		13:05	Soil Vapor	1	10	X		
SV-5-15R		13:12	Soil Vapor	1	11	X	~~X~~ SF	

Please report VOCs in µg/m3

Relinquished by		Company	Received by		Company
Printed Name: Spencer Feltner	Date: 4/16/19	Avocet Environmental, Inc.	Printed Name: DANNY LE	Date: 4/16/19	EC
Signature:	Time: 14:53		Signature: Danny Le	Time: 14:53	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt		Billing Information	Special Instructions
Total Containers	TAT	Bill To: Philip Miller, P.E. AVOCET ENVIRONMENTAL, INC. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Please bill to Avocet. If any Questions, please call Phil Miller @ 949-296-0977 Ext.102
Temperature °C ____ °F	Lab No.		
COC Seal (Y/N/NA)	Intact (Y/N)		

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WORK ORDER NUMBER: 19-04-

SAMPLE RECEIPT CHECKLIST

COOLER 0 OF 0

CLIENT: Avocet

DATE: 04/16/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): _____°C (w/ CF): _____°C; ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☑ Air ☐ Filter Checked by: 659

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☐ Not Present ☑ N/A Checked by: 659

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 659

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: **(Trip Blank Lot Number: _____)**

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☑ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 659

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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Appendix H-3

Asbestos and Lead Survey Report

ASBESTOS AND LEAD
DEMOLITION/RENOVATION SURVEY REPORT

FOR

6 BUILDINGS
9TH STREET AND VINEYARD AVENUE
RANCHO CUCAMONGA, CALIFORNIA 91730

ATC PROJECT NO. NPPAN19013

MAY 10, 2019

Prepared by:

ATC Group Services LLC
25 Cupania Circle
Monterey Park, California 91755
Phone: (323) 517-9780

Prepared for:

Panattoni Development Company, Inc.
7887 East Belleview Avenue, Suite 475
Denver, Colorado 80111

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2.3 Conclusions and Recommendations 5

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APPENDICES

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Appendix B – Personnel Asbestos and Lead Certifications
Appendix C – Asbestos Laboratory Analytical Report and Sample Logs
Appendix D – Lead Laboratory Analytical Report, Sample logs, XRF Logs, and DPH Form 8552

1.0 INTRODUCTION

ATC Group Services LLC (ATC) was retained by Panattoni Development Company, Inc., to conduct an asbestos and lead demolition/renovation survey of the residential and commercial buildings located at 9th Street and Vineyard Avenue in Rancho Cucamonga, California. The purpose of the project was to determine the presence of asbestos and lead in the buildings prior to demolition/renovation activities. The buildings are as follows:

- 8830 Vineyard Avenue, Building B (Offices)
- 8830 Vineyard Avenue (Warehouse and Out Building)
- Telecom Area (Telecommunications Access and Utility Lines)
- 8847 9th Street (Warehouse and Offices)
- 8729 9th Street (Radio Building and Offices)
- 8855 Baker Avenue (Warehouse and Offices)
- 8803 Baker Avenue (Abandoned Single-Family Residence)

The scope of the project was to identify any accessible suspect asbestos-containing materials (ACM) and lead-containing materials in the buildings at the above-referenced site.

This asbestos and lead demolition/renovation survey was conducted on April 15th to 19th, 2019 by the following California Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC), Certified Site Surveillance Technician (CSST), California Department of Public Health (DPH) Certified Lead-Related Construction Inspector/Assessor (LRCIA), and Certified Lead-Related Construction Sampling Technician (LRCST) staff:

Mr. Roberto de la Torre	CSST No. 00-2837 and LRCIA No. 14598
Ms. Elaine Horng	CAC No. 18-6392 and LRCST No. 188

All field work and report preparation was performed under the direction and guidance of Mr. Stephen Drengson, DOSH CAC No. 06-3975 and LRCIA No. 2895. Personnel asbestos and lead certifications are included in Appendix B.

2.0 ASBESTOS

2.1 Sampling Methodology and Analysis

ATC typically surveys buildings documenting the proceedings of the survey, performing bulk sampling, and other miscellaneous activities. ATC performs a preliminary visual inspection of the building to identify and quantify suspect ACM. A sampling strategy is then developed to provide representative sampling of the suspect ACM in accordance with the methods and procedures identified in the Asbestos Hazard Emergency Response Act (AHERA). The sampling protocols were in compliance with the requirements of 40 CFR 763.86.

ATC field staff utilized semi-destructive sampling methods to collect samples of accessible suspect asbestos-containing building materials. Some areas of the buildings, e.g., behind walls, pipes chases, voids, etc., may not have been accessible at the time of the inspection.

Each sample is placed in a container; the container is sealed, labeled and placed in a storage bag. Samples are documented by entering the sample data on a bulk log, including a description of the material, sample number, location, condition, accessibility, friability, potential for damage, and quantity. Typically, the sample location is marked on an 8-1/2 x 11-inch not-to-scale floor plan. Throughout the process, special care is taken to prevent cross-contamination of the collected samples. Sampling equipment is cleaned after each sample is obtained. In addition, sample containers are placed directly beneath each sample location, when feasible, to collect any materials which may become dislodged during the sampling process. Any debris generated by the sampling is cleaned by wet-cleaning methods.

All bulk sample analysis is conducted by Polarized Light Microscopy (PLM) with dispersion staining as described in the "*Method for the Determination of Asbestos in Bulk Building Materials*" (Environmental Protection Agency [EPA]-600/R-93/116, July 1993). A suspect material is immersed in a solution of known refractive index and subjected to illumination of polarized light. The color displayed enables mineral identification. Quality control samples at a rate of 10% or one per project, whichever is greater, are reanalyzed by a second, independent analyst. The analysis protocols were in compliance with the requirements of 40 CFR 763.87.

Please note, in California, materials containing greater than one-tenth of one percent (>0.1%) asbestos are defined as asbestos-containing construction material (ACCM) and are regulated by the California DOSH.

The amended National Emission Standard for Hazardous Air Pollutants (NESHAP), November 20, 1990, included a requirement that when the asbestos content of a bulk sample material is determined using procedures outlined and the asbestos content is estimated to be less than 10% by a method other than point counting, the parties legally responsible for a building (owner/operator) may (1) elect to assume the amount to be greater than 1% and treat the material as a regulated asbestos-containing material, or (2) require verification of the amount by the Point Counting method. The purpose of this procedure is to minimize false negative analysis (reporting the samples as containing less than 1% asbestos for asbestos-containing samples actually containing greater than 1%) and false positives (reporting the sample as containing greater than 1% asbestos for samples containing less than 1% asbestos). Point

Counting was included in NESHAP in response to an EPA study that found an unacceptable amount of false negative and false positive analyses by methods outlined in the interim method.

The samples were analyzed by LA Testing, located in South Pasadena, California. LA Testing is certified by the State of California Water Resources Control Board Environmental Laboratory Accreditation Program (ELAP No. 2283) and accredited by the United States Department of Commerce National Institutes of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP No. 200232-0) for asbestos bulk fiber analysis. LA Testing is also accredited by the American Industrial Hygiene Association's (AIHA) Laboratory Quality Assurance Program for industrial hygiene and lead analysis.

2.2 Results

A total of three hundred fifty-three (353) bulk asbestos samples were collected from the buildings and three hundred eighty-one (381) layers were analyzed by Polarized Light Microscopy (PLM) with dispersion staining.

Of the three hundred eight-one (381) sample layers, nine (9) samples were reanalyzed by 1000 Point Count.

The following tables (Table I-1 through Table I-9 – Asbestos Survey Results) summarizes the results of the survey. Materials identified as ACM or ACCM are denoted in **bold**. The asbestos laboratory analytical report and asbestos sampling logs of the materials sampled during the field survey are included in Appendix C. Site sampling diagrams are included in Appendix A.

Table I-1 – Asbestos Survey Results
8830 Vineyard Avenue, Building B

Sample No.	Homogenous Material	Location	Quantity	Analytical Results
001	12" x 12" Beige Floor Tile	Conference Room	NA	ND
002	12" x 12" Beige Floor Tile	Office 7	NA	ND
003	12" x 12" Beige Floor Tile	Office 4	NA	ND
004	Mastic associated with 12" x 12" Beige Floor Tile	Conference Room	NA	ND
005	Mastic associated with 12" x 12" Beige Floor Tile	Office 7	NA	ND
006	Mastic associated with 12" x 12" Beige Floor Tile	Office 4	NA	ND
007	Green Mosaic Pattern Sheet Flooring with Backing	Entrance, N	NA	ND
008	Green Mosaic Pattern Sheet Flooring with Backing	Near Women's Restroom	NA	ND
009	Green Mosaic Pattern Sheet Flooring with Backing	Exit, E	NA	ND
010	Mastic associated with Green Mosaic Pattern Sheet Flooring	Entrance, N	NA	ND

Table I-1 – Asbestos Survey Results 8830 Vineyard Avenue, Building B				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
011	Mastic associated with Green Mosaic Pattern Sheet Flooring	Near Women's Restroom	NA	ND
012	Mastic associated with Green Mosaic Pattern Sheet Flooring	Near Exit, E	NA	ND
013	Baseboard	Entrance, N	NA	ND
014	Baseboard	Near Women's Restroom	NA	ND
015	Baseboard	Copy Room	NA	ND
016	Baseboard Mastic	Entrance, N	NA	ND
017	Baseboard Mastic	Near Women's Restroom	NA	ND
018	Baseboard Mastic	Copy Room	NA	ND
019	Wallboard	Conference Room	NA	ND
020	Wallboard	Near Exit, E	NA	ND
021	Wallboard	Office 7	NA	ND
022	Wallpaper	Conference Room	NA	ND
023	Wallpaper	Copy Room	NA	ND
024	Wallpaper	Receptionist Area	NA	ND
025	2' x 4' Fissured Ceiling Panel	Conference Room	NA	ND
026	2' x 4' Fissured Ceiling Panel	Office 2	NA	ND
027	2' x 4' Fissured Ceiling Panel	Near Exit, E	NA	ND
028	Floor Leveling Compound	Entrance, N	NA	ND
029	Stucco	Exterior	NA	ND
030	Stucco	Exterior	NA	ND
031	Stucco	Exterior	NA	ND
032	Stucco	Exterior	NA	ND
033	Stucco	Exterior	NA	ND
034	Penetration and Seam Mastic	Roof	NA	ND
035	Penetration and Seam Mastic	Roof	NA	ND
036	Penetration and Seam Mastic	Roof	NA	ND
037	HVAC Mastic	Roof	NA	ND
038	HVAC Mastic	Roof	NA	ND
039	HVAC Mastic	Roof	NA	ND
155	Roof Core	Roof, SW	NA	ND
156	Roof Core	Roof, Center	NA	ND
157	Roof Core	Roof, NE	NA	ND

Table I-2 – Asbestos Survey Results 8830 Vineyard Avenue, Warehouse and Out Building				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
040	Gray Mosaic Patterned Sheet Flooring with Backing	Out Building, File Room	NA	ND
041	Gray Mosaic Patterned Sheet Flooring with Backing	Out Building, Break Room	NA	ND
042	Gray Mosaic Patterned Sheet Flooring with Backing	Out Building, Break Room	NA	ND
043	Mastic associated with Gray Mosaic Patterned Sheet Flooring	Out Building, File Room	NA	ND
044	Mastic associated with Gray Mosaic Patterned Sheet Flooring	Out Building, Break Room	NA	ND
045	Mastic associated with Gray Mosaic Patterned Sheet Flooring	Out Building, Break Room	NA	ND
046	Wallboard	Out Building, File Room	NA	ND
047	Wallboard	Out Building, Break Room	NA	ND
048	Wallboard	Warehouse, Control Room	NA	ND
049	Wall Texture Material	Out Building, File Room	NA	ND
050	Wall Texture Material	Warehouse, Control Room	NA	ND
051	Wall Texture Material	Warehouse, Control Room	NA	N*
052	Joint Compound	Warehouse, Control Room, Exterior, NW	NA	ND
053	Joint Compound	Warehouse, Control Room, Exterior, E	NA	ND
054	Joint Compound	Warehouse, Restroom	NA	N*
055	2’ x 4’ Fissured Ceiling Panel	Out Building, Break Room	NA	ND
056	2’ x 4’ Fissured Ceiling Panel	Out Building, Break Room	NA	ND
057	2’ x 4’ Fissured Ceiling Panel	Warehouse, Control Room	NA	ND
058	Window Putty	Out Building, Exterior, W	NA	ND
059	**Window Putty**	**Out Building, Exterior, S**	**130 LF**	**2% Chrysotile**
060	**Window Putty**	**Out Building, Exterior, E**	**R059**	**2% Chrysotile**
061	Roofing Felt	Out Building, Roof	NA	ND
062	Roofing Felt	Out Building, Roof	NA	ND
063	Roofing Felt	Out Building, Roof	NA	ND
064	Paper Barrier behind Wall	Out Building, Break Room	NA	ND
065	Paper Barrier behind Wall	Out Building, Break Room	NA	ND
066	Paper Barrier behind Wall	Out Building, Break Room	NA	ND

Table I-2 – Asbestos Survey Results 8830 Vineyard Avenue, Warehouse and Out Building				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
067	**Roof Mastic**	**Out Building, Roof**	**40 SF**	**10% Chrysotile**
068	**Roof Mastic**	**Out Building, Roof**	**R067**	**10% Chrysotile**
069	**Roof Mastic**	**Out Building, Roof**	**R067**	**10% Chrysotile**

Table I-3 – Asbestos Survey Results 8847 9th Street				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
070	12” x 12” Brown Stone Patterned Floor Tile	Restroom 2	NA	ND
071	12” x 12” Brown Stone Patterned Floor Tile	Restroom 2	NA	ND
072	12” x 12” Brown Stone Patterned Floor Tile	Restroom 2	NA	ND
073	Mastic associated with 12” x 12” Brown Stone Patterned Floor Tile	Restroom 2	NA	ND
074	**Mastic associated with 12” x 12” Brown Stone Patterned Floor Tile**	**Restroom 2**	**55 SF**	**2% Chrysotile**
075	**Mastic associated with 12” x 12” Brown Stone Patterned Floor Tile**	**Restroom 2**	**R074**	**3% Chrysotile**
076	12” x 12” Blue Floor Tile	Entry Area	NA	ND
077	12” x 12” Blue Floor Tile	Hallway	NA	ND
078	12” x 12” Blue Floor Tile	Restroom 1	NA	ND
079	**Mastic associated with 12” x 12” Blue Floor Tile**	**Entry Area**	**140 SF**	**5% Chrysotile**
080	**Mastic associated with 12” x 12” Blue Floor Tile**	**Hallway**	**R079**	**5% Chrysotile**
081	**Mastic associated with 12” x 12” Blue Floor Tile**	**Restroom 1**	**R079**	**6% Chrysotile**
082	12” x 12” Gray Floor Tile Patch	Entry Area	NA	ND
083	12” x 12” Gray Floor Tile Patch	Entry Area	NA	ND
084	12” x 12” Gray Floor Tile Patch	Entry Area	NA	ND

Table I-3 – Asbestos Survey Results 8847 9th Street				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
085	**Mastic associated with 12" x 12" Gray Floor Tile Patch**	**Entry Area**	**5 SF**	**3% Chrysotile**
086	**Mastic associated with 12" x 12" Gray Floor Tile Patch**	**Entry Area**	**R085**	**3% Chrysotile**
087	**Mastic associated with 12" x 12" Gray Floor Tile Patch**	**Entry Area**	**R085**	**2% Chrysotile**
088	Baseboard	Security Office	NA	ND
089	Baseboard	Restroom 1	NA	ND
090	Baseboard	Office Cubicle Area	NA	ND
091	Baseboard Mastic	Security Office	NA	ND
092	Baseboard Mastic	Restroom 1	NA	ND
093	Baseboard Mastic	Office Cubicle Area	NA	ND
094	**Carpet Mastic**	**Office Cubicle Area**	**900 SF**	**7% Chrysotile**
095	**Carpet Mastic**	**Office Cubicle Area**	**R094**	**7% Chrysotile**
096	Carpet Mastic	Security Office	NA	ND
097	Wall Texture	Hallway	NA	ND
098	Wall Texture	Security Office	NA	ND
099	Wall Texture	Office Cubicle Area, N	NA	ND
100	Wall Texture	Office Cubicle Area, S	NA	ND
101	Wall Texture	Entry Area, NW	NA	ND
102	Wallboard	Entry Area	NA	ND
103	Wallboard	Office Cubicle Area	NA	ND
104	Wallboard	Restroom 2	NA	ND
158	Roof Core	Roof	NA	ND
159	Roof Core	Roof	NA	ND
160	Roof Core	Roof	NA	ND
161	**Penetration and Seam Mastic**	**Roof**	**50 SF**	**10% Chrysotile**
162	Penetration and Seam Mastic	Roof	NA	ND
163	**Penetration and Seam Mastic**	**Roof**	**R161**	**10% Chrysotile**
164	HVAC Mastic	Roof	NA	ND
165	HVAC Mastic	Roof	NA	ND
166	HVAC Mastic	Roof	NA	ND
251	Joint Compound	Entry Area, SW	NA	ND
252	Joint Compound	Office Cubicle Area, N	NA	ND
253	Joint Compound	Security Office, W	NA	ND

Table I-3 – Asbestos Survey Results 8847 9th Street				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
254	Joint Compound	Hallway, N	NA	ND
255	Joint Compound	Office Cubicle Area, S	NA	ND

Table I-4 – Asbestos Survey Results 8803 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
105	Plaster – Finish Coat	Kitchen	NA	ND
105A	Plaster – Base Coat	Kitchen	NA	ND
106	Plaster	Hallway	NA	ND
106A	Drywall	Hallway	NA	ND
107	Plaster – Finish Coat	Living Room	NA	N*
107A	Plaster – Base Coat	Living Room	NA	ND
108	Plaster – Finish Coat	Bathroom Ceiling	NA	ND
108A	Plaster – Base Coat	Bathroom Ceiling	NA	ND
109	Plaster	Bedroom 3	NA	ND
110	Ceramic Tile Grout	Kitchen, S	NA	ND
111	Ceramic Tile Grout	Kitchen, N	NA	ND
112	Ceramic Tile Grout	Kitchen, Center	NA	ND
113	Ceramic Tile Mortar	Kitchen, S	NA	ND
114	Ceramic Tile Mortar	Kitchen, N	NA	ND
115	Ceramic Tile Mortar	Kitchen, Center	NA	ND
116	Wall Tile Grout	Bathroom	NA	ND
117	Wall Tile Grout	Kitchen	NA	ND
118	Wall Tile Grout	Kitchen	NA	ND
119	Wall Tile Mortar	Bathroom	NA	ND
120	Wall Tile Mortar	Kitchen	NA	ND
121	Wall Tile Mortar	Kitchen	NA	ND
122	Ceramic Floor Tile Mortar Composite (2 Layers) – Finish Coat	Bathroom	NA	N*
122A	Base Coat	Bathroom	NA	ND
122B	Button Board	Bathroom	NA	ND
123	Ceramic Floor Tile Mortar Composite (2 Layers)	Bathroom	NA	ND
124	Ceramic Floor Tile Mortar Composite (2 Layers)	Bathroom	NA	N*
124A	Base Coat	Bathroom	NA	ND
124B	Button Board	Bathroom	NA	ND

Table I-4 – Asbestos Survey Results 8803 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
125	Button Board	Hallway	NA	ND
126	Button Board	Living Room	NA	ND
127	Button Board	Bedroom 2	NA	ND
128	**9” x 9’ Tan Floor Tile**	**Bedroom 1**	**33 SF**	**8% Chrysotile**
129	**9” x 9’ Tan Floor Tile**	**Bedroom 1**	**R128**	**8% Chrysotile**
130	**9” x 9’ Tan Floor Tile**	**Bedroom 1**	**R128**	**8% Chrysotile**
131	Mastic associated with 9” x 9” Tan Floor Tile	Bedroom 1	NA	ND
132	Mastic associated with 9” x 9” Tan Floor Tile	Bedroom 1	NA	ND
133	Mastic associated with 9” x 9” Tan Floor Tile	Bedroom 1	NA	ND
134	**9” x 9” Green Floor Tile**	**Bedroom 1**	**33 SF**	**8% Chrysotile**
135	**9” x 9” Green Floor Tile**	**Bedroom 1**	**R134**	**8% Chrysotile**
136	**9” x 9” Green Floor Tile**	**Bedroom 1**	**R134**	**8% Chrysotile**
137	Mastic associated with 9” x 9” Green Floor Tile	Bedroom 1	NA	ND
138	Mastic associated with 9” x 9” Green Floor Tile	Bedroom 1	NA	ND
139	Mastic associated with 9” x 9” Green Floor Tile	Bedroom 1	NA	ND
140	Grout	Exterior, S	NA	ND
141	Grout	Exterior, E	NA	ND
142	Grout	Exterior, N	NA	ND
143	Roof Core	Roof	NA	ND
144	Roof Core	Roof	NA	ND
145	Roof Core	Roof	NA	ND
146	Penetration and Seam Mastic	Roof, SE	NA	ND
147	**Penetration and Seam Mastic**	**Roof, Center**	**50 SF**	**8% Chrysotile**
148	**Penetration and Seam Mastic**	**Roof, NW**	**R147**	**10% Chrysotile**
149	Electrical Wire Coating	Bathroom	NA	ND
150	Electrical Wire Coating	Hallway	NA	ND
151	Electrical Wire Coating	Kitchen	NA	ND

Table I-4 – Asbestos Survey Results 8803 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
152	Fire Brick	Living Room, W	NA	ND
153	Fire Brick	Living Room, W	NA	ND
154	Fire Brick	Living Room, W	NA	ND

Table I-5 – Asbestos Survey Results 8855 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
167	Roofing Core with Gray Paint	Roof, SW	NA	ND
168	Roofing Core with Gray Paint	Roof, Center	NA	ND
169	Roofing Core with Gray Paint	Roof, NE	NA	ND
170	Penetration and Seam Mastic	Roof	NA	ND
171	Penetration and Seam Mastic	Roof	NA	ND
172	Penetration and Seam Mastic	Roof	NA	ND
173	HVAC Mastic with Gray Paint	Roof	NA	ND
174	HVAC Mastic with Gray Paint	Roof	NA	ND
175	HVAC Mastic with Gray Paint	Roof	NA	ND
176	Joint Compound	SW Storage Room 1	NA	ND
177	Joint Compound	SW Storage Room 1&2	NA	ND
178	Joint Compound	SW Storage Room 1&2	NA	ND
179	Wallboard	SW Storage Room 1	NA	ND
180	Wallboard	SW Storage Room 1	NA	ND
181	Wallboard	SW Storage Room 1	NA	ND
182	Baseboard with Mastic	SW Storage Room 1	NA	ND
183	Baseboard with Mastic	SW Storage Room 1	NA	ND
184	Baseboard with Mastic	SW Storage Room 1	NA	ND
185	“Acrovyn” with Mastic	Warehouse Restrooms, Women’s	NA	ND
186	“Acrovyn” with Mastic	Warehouse Restrooms, Women’s	NA	ND
187	“Acrovyn” with Mastic	Warehouse Restrooms, Men’s	NA	ND
188	Wallboard	Warehouse Restrooms, Women’s	NA	ND
189	Wallboard	Warehouse Restrooms, Women’s	NA	ND
190	Wallboard	Warehouse Restrooms, Men’s	NA	ND
191	12” x 12” Beige Floor Tile	1st Floor – Main Area, Men’s Restroom	NA	ND

Table I-5 – Asbestos Survey Results 8855 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
192	12” x 12” Beige Floor Tile	1st Floor – Office 7 (Under Carpet)	NA	ND
193	12” x 12” Beige Floor Tile	Mezzanine, Men’s Restroom	NA	ND
194	Mastic associated with 12” x 12” Beige Floor Tile	1st Floor – Main Area, Men’s Restroom	NA	ND
194A	**Leveling Compound/Mastic**	**1st Floor – Main Area, Men’s Restroom**	**1,150 SF**	**3% Chrysotile**
195	Mastic associated with 12” x 12” Beige Floor Tile	1st Floor – Office 7 (Under Carpet)	NA	ND
196	Mastic associated with 12” x 12” Beige Floor Tile	Mezzanine, Men’s Restroom	NA	ND
196A	Leveling Compound	Mezzanine, Men’s Restroom	NA	ND
196B	Mastic	Mezzanine, Men’s Restroom	NA	ND
197	12” x 12” White Floor Tile	1st Floor – Office 7	NA	ND
198	12” x 12” White Floor Tile	1st Floor – Office 7/8	NA	ND
199	12” x 12” White Floor Tile	1st Floor – Office 8	NA	ND
200	Mastic associated with 12” x 12” White Floor Tile	1st Floor – Office 7	NA	ND
201	Mastic associated with 12” x 12” White Floor Tile	1st Floor – Office 7/8	NA	ND
202	Mastic associated with 12” x 12” White Floor Tile	1st Floor – Office 8	NA	ND
203	**12” x 12” Black Floor Tile**	**Mezzanine – Computer Room**	**100 SF**	**2% Chrysotile**
204	**12” x 12” Black Floor Tile**	**Mezzanine – Computer Room**	**R203**	**2% Chrysotile**
205	**12” x 12” Black Floor Tile**	**Mezzanine – Computer Room**	**R203**	**2% Chrysotile**
206	**Mastic associated with 12” x 12” Black Floor Tile**	**Mezzanine – Computer Room**	**100 SF**	**8% Chrysotile**
207	**Mastic associated with 12” x 12” Black Floor Tile**	**Mezzanine – Computer Room**	**R206**	**8% Chrysotile**
208	**Mastic associated with 12” x 12” Black Floor Tile**	**Mezzanine – Computer Room**	**R206**	**10% Chrysotile**
209	Leveling Compound	Mezzanine – Men’s Restroom	NA	ND
209A	Mastic	Mezzanine – Men’s Restroom	NA	ND
210	**Floor Tile**	**Mezzanine – Women’s Restroom**	**180 SF**	**2% Chrysotile**
211	Leveling Compound	Mezzanine – Women’s Restroom	NA	ND

Table I-5 – Asbestos Survey Results 8855 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
211A	**Floor Tile**	**Mezzanine – Women's Restroom**	**R210**	**2% Chrysotile**
211B	**Mastic**	**Mezzanine – Women's Restroom**	**R210**	**7% Chrysotile**
212	Baseboard	1st Floor – Main Area, E	NA	ND
213	Baseboard	Mezzanine – Computer Room	NA	ND
214	Baseboard	Mezzanine – Office 3	NA	ND
215	Baseboard Mastic	1st Floor – Main Area, E	NA	ND
216	Baseboard Mastic	Mezzanine – Computer Room	NA	ND
217	Baseboard Mastic	Mezzanine – Office 3	NA	ND
218	2' x 2' Carpet Tile Mastic	1st Floor – Main Area, E	NA	ND
219	2' x 2' Carpet Tile Mastic	1st Floor – Main Area, Center	NA	ND
220	2' x 2' Carpet Tile Mastic	1st Floor – Main Area, W	NA	ND
221	**Carpet Mastic**	**1st Floor – Office 6**	**1,400 SF**	**3% Chrysotile**
222	Carpet Mastic	1st Floor – Conference Room	NA	ND
223	Carpet Mastic	1st Floor – Office 9	NA	ND
224	Carpet Mastic	Mezzanine – Office 1	NA	ND
225	Carpet Mastic	Mezzanine – Office 2	NA	ND
226	Carpet Mastic	Mezzanine – Main Area	NA	ND
227	Wallboard	1st Floor – Conference Room, E	NA	ND
228	Wallboard	1st Floor – Main Area, S	NA	ND
229	Wallboard	1st Floor – Room 10, W	NA	ND
230	Wallboard	Mezzanine – Office 1	NA	ND
231	Wallboard	Mezzanine – Main Area, W	NA	ND
232	Wallboard	Mezzanine – Office 6	NA	ND
233	Joint Compound	1st Floor – Conference Room, E	NA	ND
234	Joint Compound	1st Floor – Main Area, S	NA	ND
235	Joint Compound	1st Floor – Women's Restroom	NA	N*
236	Joint Compound	1st Floor – office 2	NA	ND
237	Joint Compound	1st Floor – Room 10, W	NA	ND
238	Joint Compound	Mezzanine – Main Area, Stairwell, S	NA	ND
239	Joint Compound	Mezzanine – Women's Restroom	NA	ND

Table I-5 – Asbestos Survey Results 8855 Baker Avenue				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
240	Joint Compound	Mezzanine – Computer Room	NA	N*
241	Joint Compound	Mezzanine – Office 1	NA	ND
242	Joint Compound	Mezzanine – Office 4	NA	ND
243	Wall Texture Material	1st Floor – Main Area, S	NA	ND
244	Wall Texture Material	1st Floor – Office 1, W	NA	N*
245	Wall Texture Material	1st Floor – Women's' Restroom	NA	N*
246	Wall Texture Material	Mezzanine – Main Area, N	NA	ND
247	Wall Texture Material	Mezzanine – Office 6	NA	ND
248	2' x 4' Fissured Ceiling Panel	1st Floor – Main Area, Center	NA	ND
249	2' x 4' Fissured Ceiling Panel	1st Floor – Conference Room	NA	ND
250	2' x 4' Fissured Ceiling Panel	Mezzanine – Main Area	NA	ND

Table I-6 – Asbestos Survey Results Telecom Area				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
256	Mortar	W	NA	ND
257	Mortar	N	NA	ND
258	Mortar	S	NA	ND

Table I-7 – Asbestos Survey Results 8729 9th Street, Suite 100				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
259	Roofing Core	Roof, N	NA	ND
260	Roofing Core	Roof, Center	NA	ND
261	Roofing Core	Roof, S	NA	ND
262	Parapet Composite	Roof, SW	NA	ND
263	Parapet Composite	Roof, SE	NA	ND
264	Parapet Composite	Roof, NW	NA	ND
265	Roofing Mastic	Roof, NE	NA	ND
266	Roofing Mastic	Roof, W	NA	ND
267	Roofing Mastic	Roof, SW	NA	ND
268	Air Duct Mastic	Roof, W	NA	ND
269	Air Duct Mastic	Roof, W	NA	ND
270	Air Duct Mastic	Roof, w	NA	ND
271	Carpet Mastic	1st Floor – Office 6	NA	ND

Table I-7 – Asbestos Survey Results 8729 9th Street, Suite 100				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
272	Carpet Mastic	1st/2nd Floor – Stair Landing	NA	ND
273	Carpet Mastic	2nd Floor – Office 3	NA	ND
274	Wood Floor Slat Mastic	Entry Area	NA	ND
275	Wood Floor Slat Mastic	Entry Area	NA	ND
276	Wood Floor Slat Mastic	Entry Area	NA	ND
277	Mortar	1st Floor – Downstairs Restroom, Floor	NA	ND
278	Mortar	2nd Floor – Upstairs Restroom, Floor	NA	ND
279	Mortar	1st Floor – Downstairs Restroom, Wall	NA	ND
280	Grout	1st Floor – Downstairs Restroom, Floor	NA	ND
281	Grout	2nd Floor – Upstairs Restroom, Floor	NA	ND
282	Grout	1st Floor – Downstairs Restroom, Wall	NA	ND
283	Baseboard	1st Floor – Reception Area	NA	ND
284	Baseboard	1st/2nd Floor – Stair Landing	NA	ND
285	Baseboard	2nd Floor – Office 3, S	NA	ND
286	Baseboard Mastic	1st Floor – Reception Area	NA	ND
287	Baseboard Mastic	1st/2nd Floor – Stair Landing	NA	ND
288	Baseboard Mastic	2nd Floor – Office 3, S	NA	ND
289	Wallboard	1st Floor – Reception Area	NA	ND
290	Wallboard	1st/2nd Floor – Stair Landing	NA	ND
291	Wallboard	2nd Floor – Office 3	NA	ND
292	Joint Compound	1st Floor – Reception Area	NA	ND
293	Joint Compound	1st Floor – Office 3, S	NA	ND
294	Joint Compound	1st Floor – Office 5	NA	ND
295	Joint Compound	1st/2nd Floor – Stair Landing	NA	ND
296	Joint Compound	2nd Floor – Office 1, S	NA	ND
297	Joint Compound	2nd Floor – Hallway	NA	ND
298	Joint Compound	2nd Floor – Office 4	NA	ND
299	Wall Texture Material	1st Floor – Reception Area	NA	ND
300	Wall Texture Material	1st Floor – Hallway, E	NA	ND
301	Wall Texture Material	1st Floor – Office 5	NA	ND
302	Wall Texture Material	1st/2nd Floor – Stair Landing	NA	ND
303	Wall Texture Material	2nd Floor – Office 1, N	NA	ND
304	Wall Texture Material	2nd Floor – Office 2	NA	ND
305	Wall Texture Material	2nd Floor – Office 3	NA	ND

Table I-7 – Asbestos Survey Results 8729 9th Street, Suite 100				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
306	2' x 2' Fissured Ceiling Panel	1st Floor – Hallway	NA	ND
307	2' x 2' Fissured Ceiling Panel	1st/2nd Floor – Stair Landing	NA	ND
308	2' x 2' Fissured Ceiling Panel	2nd Floor – Office 4	NA	ND

Table I-8 – Asbestos Survey Results 8729 9th Street, Suite 110				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
309	Roofing Composite (Shingles with Felt)	Roof, S	NA	ND
310	Roofing Composite (Shingles with Felt)	Roof, NW	NA	ND
311	Roofing Composite (Shingles with Felt)	Roof, N	NA	ND
312	**Roofing Mastic**	**Roof, E**	**50 SF**	**10% Chrysotile**
313	**Roofing Mastic**	**Roof, SW (off Air Duct)**	**R312**	**10% Chrysotile**
314	**Roofing Mastic**	**Center**	**R312**	**10% Chrysotile**
315	Air Duct Mastic	Roof, SW	NA	ND
316	Air Duct Mastic	Roof, SW	NA	ND
317	Air Duct Mastic	Roof, SW	NA	ND
318	Carpet Mastic	Cubicle Area, NE	NA	ND
319	Carpet Mastic	Cubicle Area, Center	NA	ND
320	Carpet Mastic	Radio Room	NA	ND
321	Mortar	Women's Restroom, Floor	NA	ND
322	Mortar	Men's Restroom, Floor	NA	ND
323	Mortar	Men's Restroom, Wall	NA	ND
324	Grout	Women's Restroom, Floor	NA	ND
325	Grout	Men's Restroom, Floor	NA	ND
326	Grout	Men's Restroom, Wall	NA	ND
327	Baseboard	Cubicle Area, W	NA	ND
328	Baseboard	Cubicle Area, near Door	NA	ND
329	Baseboard	Small Office	NA	ND
330	Baseboard Mastic	Cubicle Area, W	NA	ND
331	Baseboard Mastic	Cubicle Area, near Door	NA	ND
332	Baseboard Mastic	Small Office	NA	ND
333	Wallboard	Women's Restroom, Ceiling	NA	ND
334	Wallboard	Cubicle Area, N	NA	ND

Table I-8 – Asbestos Survey Results 8729 9th Street, Suite 110				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
335	Wallboard	Small Office	NA	ND
336	Joint Compound	Cubicle Area, Entry	NA	ND
337	Joint Compound	Outside Men's Restroom	NA	ND
338	Joint Compound	Cubicle Area, Center at Column	NA	ND
339	Joint Compound	Cubicle Area, W	NA	ND
340	Joint Compound	Small Office, E	NA	ND
341	Wall Texture Material	Cubicle Area, Entry	NA	ND
342	Wall Texture Material	Outside Men's Restroom	NA	ND
343	Wall Texture Material	Cubicle Area, Center at Column	NA	ND
344	Wall Texture Material	Cubicle Area, W	NA	ND
345	Wall Texture Material	Small Office, E	NA	ND
346	2' x 2' Fissured Ceiling Panel	Cubicle Area, NE	NA	ND
347	2' x 2' Fissured Ceiling Panel	Cubicle Area, Center	NA	ND
348	2' x 2' Fissured Ceiling Panel	Small Office	NA	ND

Table I-9 – Asbestos Survey Results 8729 9th Street, Suites 100 & 110, Exterior Only				
Sample No.	**Homogenous Material**	**Location**	**Quantity**	**Analytical Results**
349	Stucco – Finish Coat	Exterior, N	NA	ND
349A	Stucco – Base Coat	Exterior, N	NA	ND
350	Stucco – Finish Coat	Exterior, NE	NA	ND
350A	Stucco – Base Coat	Exterior, NE	NA	ND
351	Stucco – Finish Coat	Exterior, SE	NA	ND
351A	Stucco – Base Coat	Exterior, SE	NA	ND
352	Stucco – Finish Coat	Exterior, SW	NA	ND
352A	Stucco – Base Coat	Exterior, SW	NA	ND
353	Stucco	Exterior, W	NA	ND

ND = None Detected; NA = Not Applicable; SF = Square Feet; EA = Each; LF = Linear Feet;
N = North; S = South; E = East; W = West.
R001 = Refer to quantity of sample 001.
N*=Materials were point counted (1,000 points) and reported to contain less than one-tenth of one percent asbestos (<0.1% Chrysotile) by weight and are not considered to be ACM or ACCM.

2.3 Conclusions and Recommendations

Based on the survey results, asbestos was identified in the materials listed in the following table (Table II – ACM or ACCM Materials and Approximate Quantities). It should be assumed that any of the materials listed below if encountered within the building should be treated as ACM or ACCM.

Table II – ACM or ACCM Materials and Approximate Quantities

Sample No.	Homogenous Material	Location	Approx. Quantity	Cond.	Asbestos Content
058, 059	**Window Putty**	**8830 Vineyard Avenue – Out Building, Exterior**	**130 LF**	Good	2% Chrysotile
067, 068, 069	**Roof Mastic**	**8830 Vineyard Avenue – Out Building, Roof**	**40 SF**	Good	10% Chrysotile
094, 095	**Yellow/Black Carpet Mastic**	**8847 9th Street – Office Cubicle Area, Security Office**	**900 SF**	Good	7%-10% Chrysotile
079, 080, 081	**Black/Yellow Mastic associated with 12" x 12" Blue Floor Tile**	**8847 9th Street – Entry Area, Hallway, Restroom 1**	**140 SF**	Good	5%-6% Chrysotile
074, 075	**Black/Yellow Mastic associated with 12" x 12" Brown Stone Patterned Floor Tile**	**8847 9th Street – Restroom 2**	**55 SF**	Good	2%-3% Chrysotile
085, 086, 087	**Mastic associated with 12" x 12" Gray Floor Tile**	**8847 9thStreet – Entry Area (Patch)**	**5 SF**	Good	2%-3% Chrysotile
161, 163	**Penetration and Seam Mastic**	**8847 9th Street – Roof**	**50 SF**	Good	10% Chrysotile
128, 129, 130, 134, 135, 136	**9" x 9" Tan/Green Floor Tile**	**8803 Baker Avenue – Bedroom 1**	**66 SF**	Good	8% Chrysotile
147, 148	**Black Penetration and Seam Mastic**	**8803 Baker Avenue – Roof**	**50 SF**	Good	8%-10% Chrysotile
194A	**Gray/Black Leveling Compound/ Mastic under Carpet or 12" x 12" Beige Floor Tile**	**8855 Baker Avenue – 1st Floor – Women's Restroom, Men's Restroom, Room 10, Room 11**	**1,150 SF**	Good	3% Chrysotile

Table II – ACM or ACCM Materials and Approximate Quantities					
Sample No.	**Homogenous Material**	**Location**	**Approx. Quantity**	**Cond.**	**Asbestos Content**
221	**Black/Yellow Carpet Mastic**	**8855 Baker Avenue – 1st Floor – Conference Room, Office 5, 6, 9**	**1,400 SF**	Good	3% Chrysotile
203, 204, 205, 206, 207, 208	**12" x 12" Black Floor Tile and associated Black Mastic**	**8855 Baker Avenue – Mezzanine – Computer Room**	**100 SF**	Good	2% Chrysotile (Floor Tile) 8%-10% Chrysotile (Mastic)
210, 211A, 211B	**Floor Tile and Black Mastic under Leveling Compound under 12" x 12" Beige Floor Tile.**	**8855 Baker Avenue – Mezzanine – Women's Restroom, Men's Restroom**	**180 SF**	Good	ND (Floor Tile) ND (Leveling Compound) 2% Chrysotile (Floor Tile) 7% Chrysotile (Mastic)
312, 313, 314	**Black/Gray Roofing Mastic**	**8729 9th Street, Suite 110 – Roof**	**50 SF**	Good	10% Chrysotile

If additional suspect materials are observed by the contractor during abatement, demolition, or renovation, the consultant should be notified and the presence of these materials should be verified. All materials listed above should be removed and disposed of as ACM prior to any demolition/renovation activities. Certain materials may not have been visible during the initial survey such as mirror mastic, pipe gaskets, barrier paper under wood, materials behind walls, insulation in fire doors, materials in pipe chases, and materials under the building structure. If these materials are impacted, they should be assumed ACM until further investigation/testing proves otherwise.

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by Federal, State, and local agencies. ACMs and ACCMs generally do not pose a health threat unless the asbestos fibers are disturbed by demolition/renovation, construction or demolition and may become airborne and inhaled.

A building material is considered to be ACM if at least one sample collected from the homogeneous material shows asbestos present in an amount greater than one percent (>1%). Materials with less than one percent (<1%) asbestos are not regulated by the USEPA or Federal OSHA. However, the California DOSH does regulate materials with greater than one-tenth of one percent (>0.1%) under California Code of Regulations (CCR) Title 8, Section 1529. These materials are considered ACCMs.

ATC recommends removal of the noted ACMs and ACCMs (if any) above that will be disturbed during the planned demolition/renovation prior to any demolition/renovation activities. Contractors must use asbestos safe work practices when disturbing the material listed above.

Building occupants and contractors working in an area where asbestos is present must be informed of the type and location of ACM or ACCM. ATC recommends abatement of all identified ACM and ACCM by a California licensed, certified and registered asbestos abatement contractor prior to disturbance during any demolition/renovation activities. Asbestos abatement must be performed in accordance with Federal OSHA, California DOSH, and the South Coast Air Quality Management District (SCAQMD) Rule 1403, *Asbestos Emissions from Demolition/Renovation Activities.*

The California DOSH also requires employers to implement specific work practices, which protect workers from airborne asbestos exposure. Building materials, which contain even low levels of asbestos (trace amounts), can potentially generate significant concentrations of airborne asbestos fibers when disturbed. Therefore, control measures should be instituted which adequately addresses worker health and safety during the planned demolition/renovation activities involving these materials.

3.0 LEAD-CONTAINING MATERIALS

3.1 Sampling Methodology and Analysis

ATC's field technicians conducted a visual inspection of the buildings and observed most interior/exterior paint to be intact. ATC's field staff utilized an X-Ray Fluorescence (XRF) Analyzer device as well as collected representative samples of suspect lead-based paint that was observed to be loose and flakey.

The lead testing was performed on-site using an XRF Analyzer on various surfaces, according to the procedures identified in Chapter 7 of the *Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of LBP in Housing,* and the XRF-specific *Performance Characteristic Sheet* (PCS) methodology for the Heuresis Pb200i Lead Paint Analyzer.

The Heuresis Pb200i Lead Paint Analyzer is a complete lead paint analysis system, which quickly, accurately, and non-destructively measures the concentration of LBP on surfaces. The Heuresis Pb200i relies on the measurement of the K-shell X-rays simultaneously to determine the amount of lead present in the painted surface. These X-rays can penetrate many layers of paint and allow a good measurement of the lead content of paint to be made without being significantly affected by the thickness or number of layers of paint on the surface of the sample.

The Heuresis Pb200i has the ability to analyze and compute corrections for the differences in the energy spectrums relating to different substrates. This analysis of the energy spectrum means that the lead paint reading displayed on the instrument already accounts for any substrate effects and no correction is required by the operator. The Heuresis Pb200i's field of view is deep enough to handle virtually all painted surfaces, but not prone to detect lead objects located behind the surface.

Upon arrival at the job site, a "calibration test" was performed to assure that the instrument was operating properly. A series of three calibrated readings and one "zero standard" reading were taken at the start of each shift, and three more calibration check readings and one "zero standard" reading were taken near the end of each sampling sequence. Test measurements consisting of approximately 30 seconds per measurement were taken of three of the test block and/or NIST Paint Film Standards (SRM No. 2570-2575) as required by the instrument's PCS. The individual readings and an average of the calibration readings were recorded and compared to standards.

In all cases the instrument was functioning within the standard deviation as defined by the manufacturer and the PCS. All validation readings were recorded in a logbook, which accompanies the instrument. If for any reason the XRF does not pass the calibration procedures, it is ATC's policy to replace that instrument with an XRF that passes the above criteria for calibration. HUD developed the PCS for use with the specific instrument used for testing.

The paint chip samples were analyzed by LA Testing located in South Pasadena, California. LA Testing is certified by the State of California Department of Health Services Environmental Laboratory Accreditation Program (ELAP No. 2083) and is accredited by the AIHA Laboratory Quality Assurance Program for industrial hygiene and lead analysis.

3.2 XRF Survey Results

A total of four hundred fifty (450) readings were taken from the buildings. Four hundred two (402) readings were taken throughout the interior/exterior of the building areas and forty-eight (48) readings were calibration/"zero standard" checks.

The following table (Table III – Positive XRF Survey Results) represents the results of the XRF survey. The California Department of Public Health (CDPH) and HUD definition of lead-based paint/materials is lead equal to or greater than 1.0 milligram per cubic centimeter (mg/ cm^2). The table only lists those materials analyzed and found to contain greater than or equal to 1.0 mg/cm^2. The lead-based paint/materials XRF sampling logs of the materials sampled during the field survey are included in Appendix D. Site sampling diagrams are included in Appendix A.

Positive: An XRF reading is classified as positive if it is greater than or equal to 1.0 mg/cm^2.

Negative: An XRF reading is classified as negative if it is less than 1.0 mg/cm^2.

Table III – Positive XRF Survey Results

Sample No.	XRF Results (mg/cm^2)	Cond. of Paint	Approx. Qty.	Building/ Floor/ Room/ Area	Location	Surface	Substrate	Color
160	1.6	Fair	40 LF	8855 Baker Avenue / 1st Floor / Stairs near Office 9	Center	Stair Rail	Metal	Brown
161	2.7	Fair	75 LF	8855 Baker Avenue / 1st Floor / Stairs near Office 9	Center	Stair Rail Support	Metal	Brown
203	2.6	Fair	28 LF	8855 Baker Avenue / 1st Floor / Main Area Stairs near Office 4	S	Stair Rail	Metal	White
204	4.0	Fair	16 LF	8855 Baker Avenue / 1st Floor / Main Area Bottom of Stairs near Office 4	S	Stair Mullion	Metal	White

Table III – Positive XRF Survey Results								
Sample No.	**XRF Results (mg/cm^2)**	**Cond. of Paint**	**Approx. Qty.**	**Building/ Floor/ Room/ Area**	**Location**	**Surface**	**Substrate**	**Color**
205	5.4	Intact	20 LF	8855 Baker Avenue / 1st Floor / Main Area Stairs near Main Entry	W	Stair Riser	Metal	White
206	7.5	Intact	40 LF	8855 Baker Avenue / 1st Floor / Main Area Stairs near Main Entry	W	Stair Mullion	Metal	White
207	2.9	Intact	32 LF	8855 Baker Avenue / 1st Floor / Main Area Stairs near Main Entry	W	Stair Rail	Metal	White
230	23.4	Fair	1 EA	8855 Baker Avenue / 1st Floor / Warehouse Restrooms	S	Sink	Porcelain	White
436	2.7	Fair	250 LF	8729 9th Street / Ground / Exterior	N	Striping	Concrete	Yellow
437	1.7	Fair	500 LF	8729 9th Street / Ground / Exterior	E	Striping	Concrete	Yellow

EA = Each; LF = Linear Feet; N = North; S = South; E = East; W = West

The lead-based paint/materials XRF sampling logs of the materials sampled during the field survey are included in Appendix D. Site sampling diagrams are included in Appendix A

3.3 Laboratory Analysis Results

ATC collected eleven (11) paint-chip samples for analysis of lead content. The samples were submitted to LA Testing for analysis by Flame Atomic Absorption Spectrophotometry (Flame AAS) in accordance with EPA Method 7420 analytical protocol.

The following table (Table IV – Lead-Based Paint Bulk Sample Survey Results) represents the results of the paint chip analysis via Flame AAS. The California DPH Title 17 California Code of Regulations (CCR), United States HUD define lead-based paint (LBP) as paints containing greater than or equal to 0.5% lead by weight or 5,000 milligrams per kilogram (mg/kg) or parts per million (ppm) total lead. Samples found to contain lead-based paint are denoted in **bold**. Samples that contain detectable levels of lead are denoted with an asterisk. The lead laboratory analytical report of the materials sampled during the field survey is included in Appendix D. Site sampling diagrams are included in Appendix A.

Table IV - Lead-Based Paint Bulk Sample Survey Results

Sample No.	Building/ Description	Location	Surface	Substrate	Color	Results (ppm)
P01	8830 Vineyard Avenue, Building B / Exterior	N	Window Frame	Wood	Blue	<80
P02	8830 Vineyard Avenue, Building B / Exterior	E	Window Frame	Wood	Pink	<80
P03	8830 Vineyard Avenue / Out Building / Interior	S	Siding	Wood	White	<80
P04	8830 Vineyard Avenue / Out Building / Exterior	S	Window Frame	Wood	Blue	<80
P05	8830 Vineyard Avenue / Warehouse	Center	Bollard	Metal	Yellow	<80
P06	8803 Baker Avenue / Interior	S	Ceiling	Plaster	White	280*
P07	8855 Baker Avenue / Exterior	S	Wall	Concrete	Light Brown	<80
P08	8855 Baker Avenue / Interior	N	Wall	Concrete	White	<80
P09	8847 9th Street / Exterior	N	Wall	Concrete	White	150*
P10	8729 9th Street / Exterior	N	Joist	Wood	White	<80
P11	8729 9th Street / Interior	W	Wall	Wallboard	Light Tan	<80

ppm = Parts per Million
Bold = Lead-Based Paint: concentration greater than or equal to 0.5% lead by weight or 5,000 milligrams per kilogram (mg/kg) or parts per million (ppm) total lead.
* = Lead-containing coating: concentration above detection limit

3.4 Conclusions and Recommendations

Based on the survey results, the lead-containing materials listed below in the table (Table V – Lead-Based Paint/Materials and Quantities) meet the definition of lead-based paint. The California DPH (as defined in Title 17 CCR) and United States Department of Housing and Urban Development (HUD) define lead-based paint (LBP) as paints containing greater than 1.0 mg/cm^2, as well as, paints containing greater than or equal to 0.5% lead by weight or 5,000 mg/kg or ppm total lead. Paint containing less than these amounts but greater than the limit of detection is generally termed "lead-containing paint" (LCP).

Table V – Lead-Based Paint / Materials and Approximate Quantities

Material Description	Location	Condition	Approx. Quantity	Results (ppm)	Results (mg/cm^2)
Brown Paint on Metal Stair Rail	8855 Baker Avenue / 1st Floor / Stairs near Office 9	Fair	40 LF	----	1.6
Brown Paint on Metal Stair Rail Support	8855 Baker Avenue / 1st Floor / Stairs near Office 9	Fair	75 LF	----	2.7
White Paint on Metal Stair Rail	8855 Baker Avenue / 1st Floor / Main Area Stairs near Office 4 and near Main Entry	Fair	60 LF	----	2.6 – 2.9
White Paint on Metal Stair Mullion	8855 Baker Avenue / 1st Floor / Main Area Stairs near Office 4 and near Main Entry	Fair	56 LF	----	4.0 – 7.5
White Paint on Metal Stair Riser	8855 Baker Avenue / 1st Floor / Main Area Stairs near Main Entry	Intact	20 LF	----	5.4

Table V – Lead-Based Paint / Materials and Approximate Quantities					
Material Description	**Location**	**Condition**	**Approx. Quantity**	**Results (ppm)**	**Results (mg/cm^2)**
White Porcelain Sink	8855 Baker Avenue / 1st Floor / Warehouse Restrooms	Fair	1 EA	----	23.4
Yellow Striping on Concrete	8729 9th Street / Ground / Exterior, N and E	Fair	750 LF	----	1.7 – 2.7

LF = Linear Feet; EA = Each

Lead is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. Lead-containing materials, LBP and LCP generally do not pose a health risk unless the material is disturbed or sufficiently deteriorated to produce dust, which may become airborne and inhaled or ingested.

DOSH regulations (8 CCR 1532.1 - Lead Construction Standard) do not provide a definition for "lead-based paint," but rather provide a Permissible Exposure Limit (PEL) for worker exposure to airborne lead particles of 50 micrograms per cubic meter of air (50 micrograms per cubic meter [$\mu g/m^3$] for an 8-hour time-weighted average). The OSHA Lead Construction Standard also lists an Action Level of 30 $\mu g/m^3$ for an 8-hour time-weighted average. All employees (workers) and supervisors who are engaged in lead related construction and shown to be exposed to lead at or above the Permissible Exposure Limit, shall be trained by state-accredited training providers and certified by the California Department of Public Health.

If lead-containing material, LBP or LCP will be impacted (activities such as such as demolition, sanding, sand /shot blasting, chipping or any other method of surface preparation which may cause potential airborne lead concentrations to exceed the California DOSH action level) during the building demolition/renovation, ATC recommends removal and/or stabilization of those building materials denoted above that will be disturbed during the upcoming demolition/renovation**,** as well as, other surfaces of similar substrate, color and condition. Contractor must use lead safe work practices when disturbing any of the materials listed above.

Work activities impacting the lead-containing materials pose a potential exposure risk for workers. Workers trained in proper safety and respiratory techniques should perform work activities that may impact the LBP. All construction work where an employee may be occupationally exposed to lead must comply with California DOSH requirements. This regulation requires initial employee exposure monitoring to evaluate worker exposure during work that disturbs lead-containing materials (lead present in detectable levels). Any disturbance to LBP surfaces or materials, such as demolition, sanding, sand /shot blasting, chipping or any other method of surface preparation which may cause potential airborne lead concentrations above current regulatory levels are prohibited by state law.

4.0 LIMITATIONS

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with principles and practices in the fields of environmental science and engineering. The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during the noted dates of fieldwork. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions, or recommendations made by others based on the results and designs presented in this report.

The passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does it warrant operations or conditions present of a type or at a location not investigated.

Reasonable effort is made by ATC personnel to locate and sample materials representative of the site structures. However, for any building, the existence of unique or concealed materials or debris not observed by ATC is a possibility. ATC does not warrant, guarantee or profess to have the ability to locate or identify all concealed hazardous materials at the buildings. This report is intended for the sole use of Panattoni Development Company, Inc., CP Logistics Vineyard, LLC, CP Logistics Platform, LLC, Panattoni CLP, LLC, Panattoni CLP Operator, LLC, CDP Development, Inc., PDC OC/IE, LLC, and Principal Real Estate Investors, LLC. This report is not intended to be utilized as a construction and/or bidding document, nor is this document designed to be used as a remediation or abatement specification. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

This inventory does not represent an exhaustive listing of types of materials that may be required to be removed from a building prior to demolition/renovation. Any conditions or materials that could not be visually identified on the surface were not inspected and may differ from those conditions or materials noted.

5.0 SIGNATURES

This report presents the results of the asbestos and lead demolition/renovation survey that was prepared by Ms. Elaine Horng (CAC, LRCST) and reviewed by Mr. Stephen Drengson (CAC, LRCIA).

ATC appreciates the opportunity to be of service to Panattoni Development Company, Inc., on this project and looks forward to working with you on future assignments. In the meantime, if you have questions or comments regarding the information in this report or if we can be of further assistance, please do not hesitate to contact the undersigned in the ATC Los Angeles, California office at (323) 517-9780.

Sincerely,
ATC Group Services LLC

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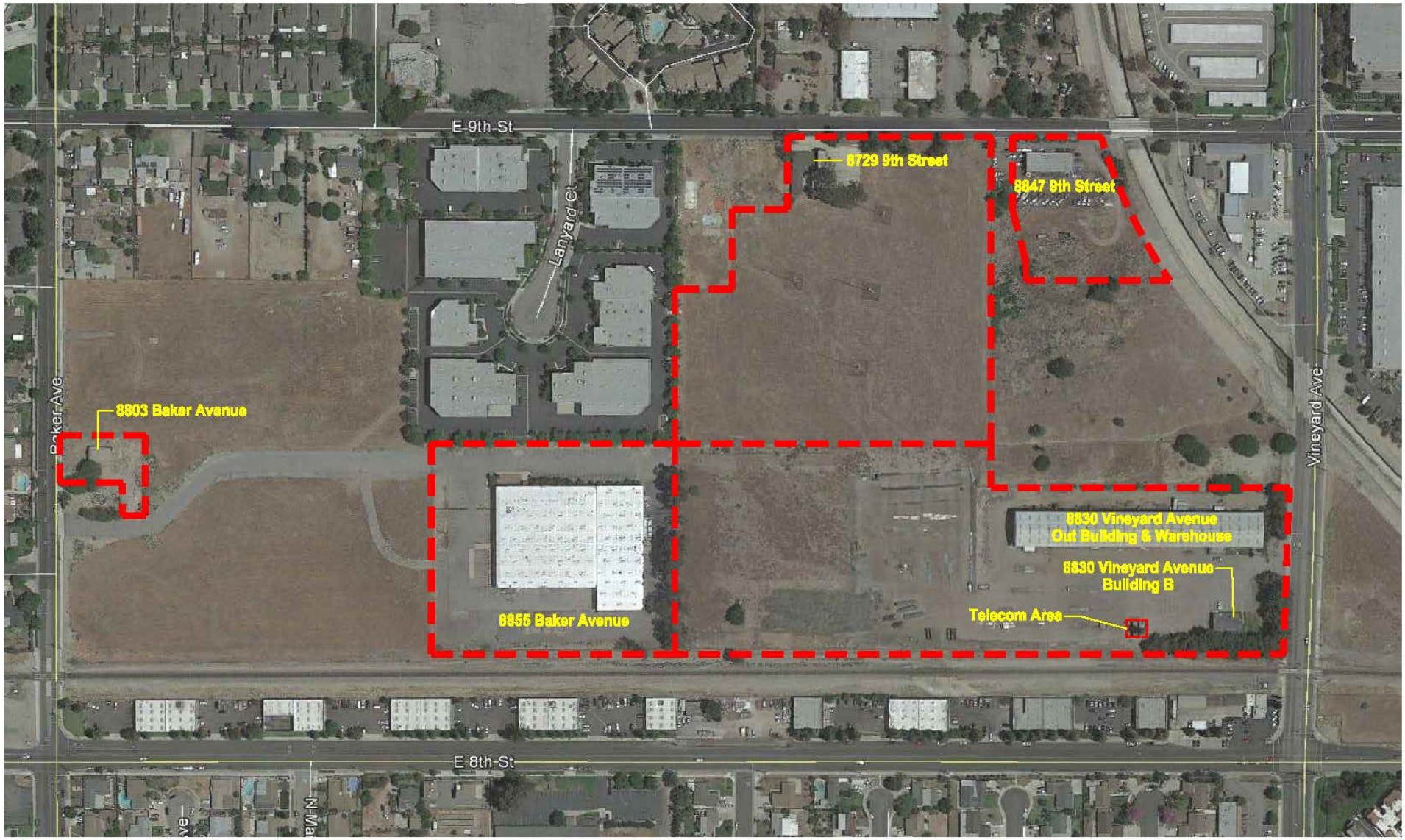
APPENDIX A

Site Diagrams



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SITE PLAN	ASBESTOS AND LEAD DEMOLITION SURVEY 6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013 / PHASE: 1 / FIGURE REVIEW BY: E. HORNG / DRAWN BY: DAW / 1
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781

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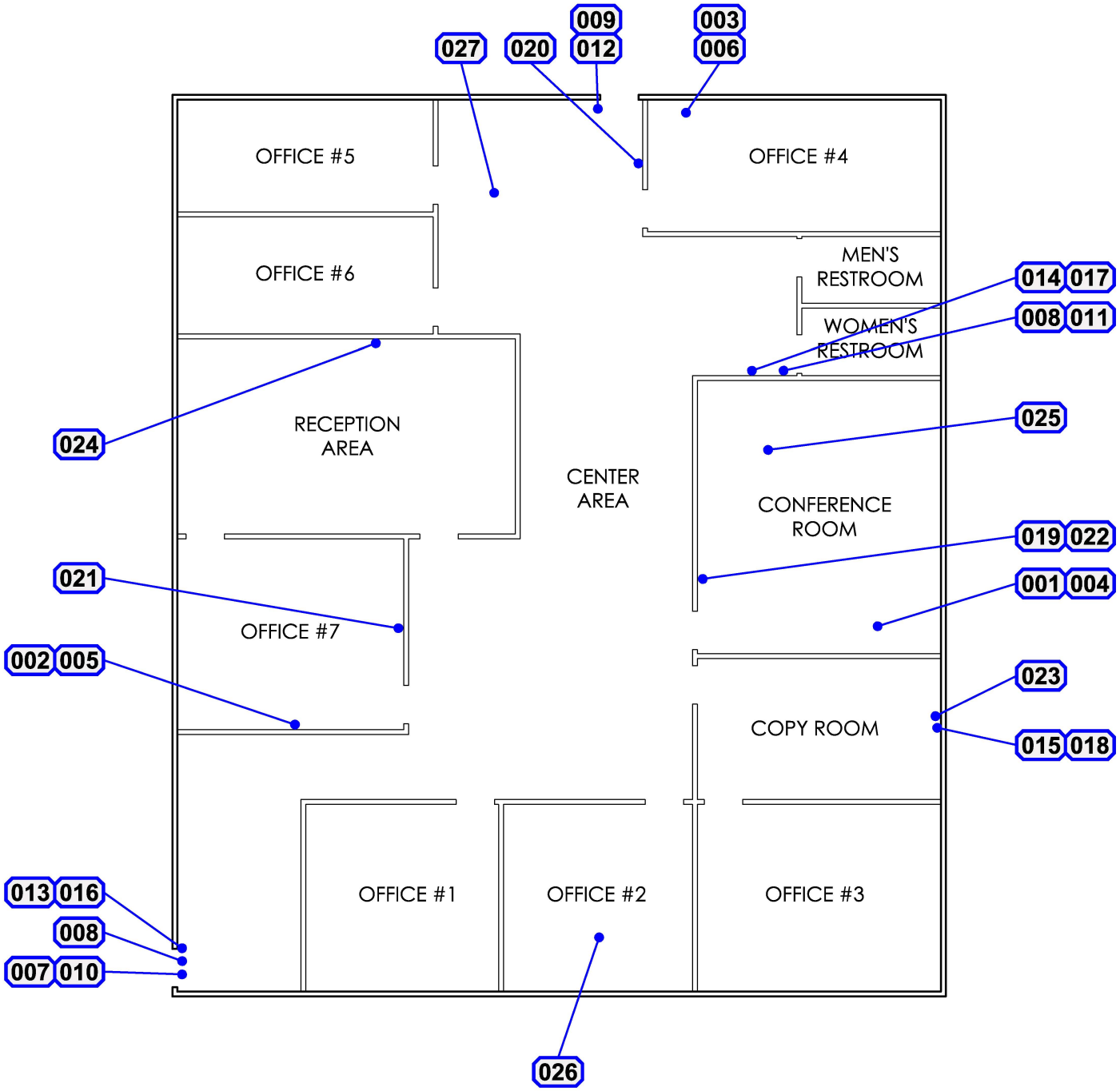

LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

8830 VINEYARD AVENUE, BUILDING B

NOT TO SCALE

N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	2

ATC
25 Cupania Circle
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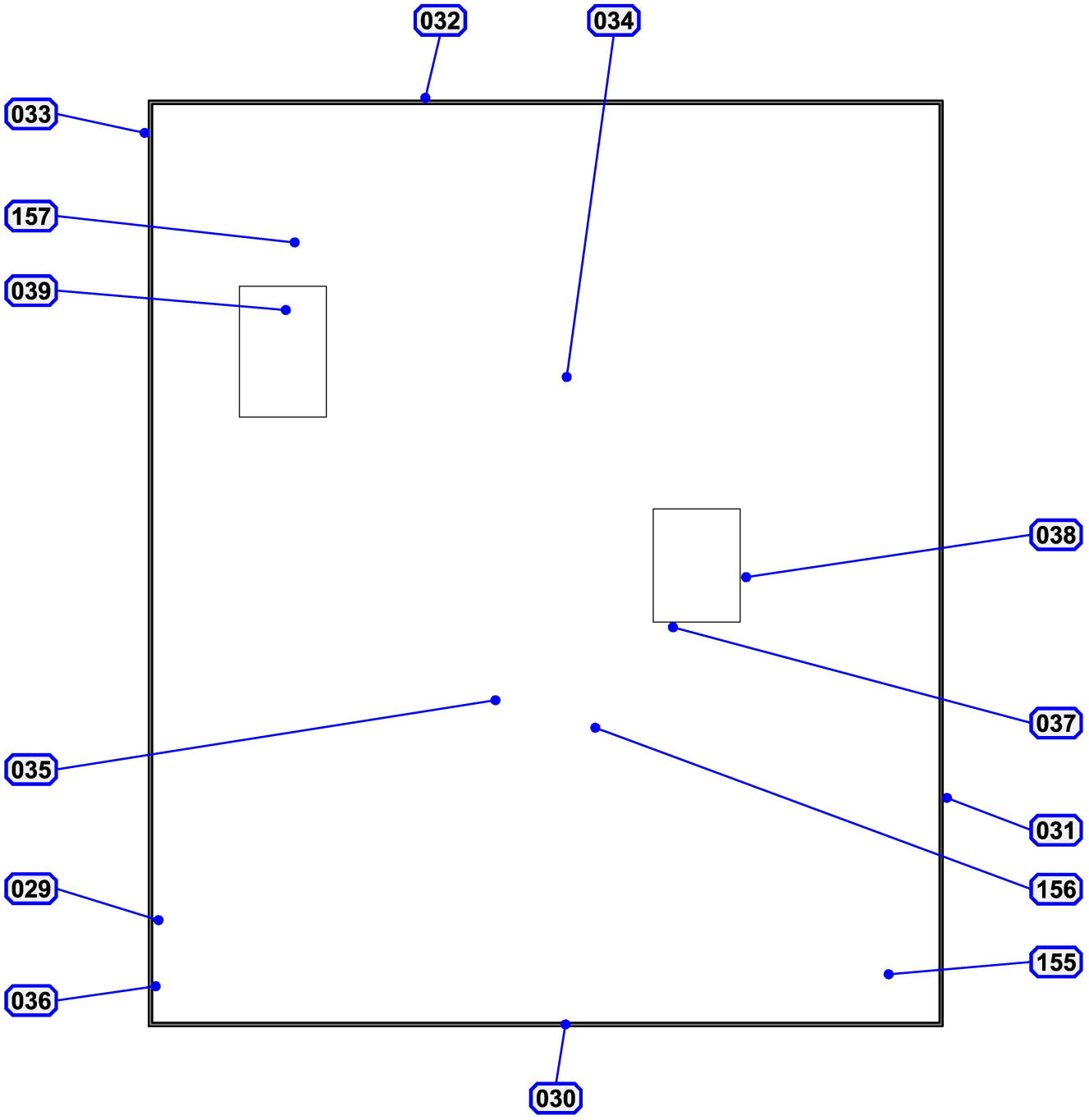

LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

8830 VINEYARD AVENUE, BUILDING B - EXTERIOR & ROOF

NOT TO SCALE

Z

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	3

ATC
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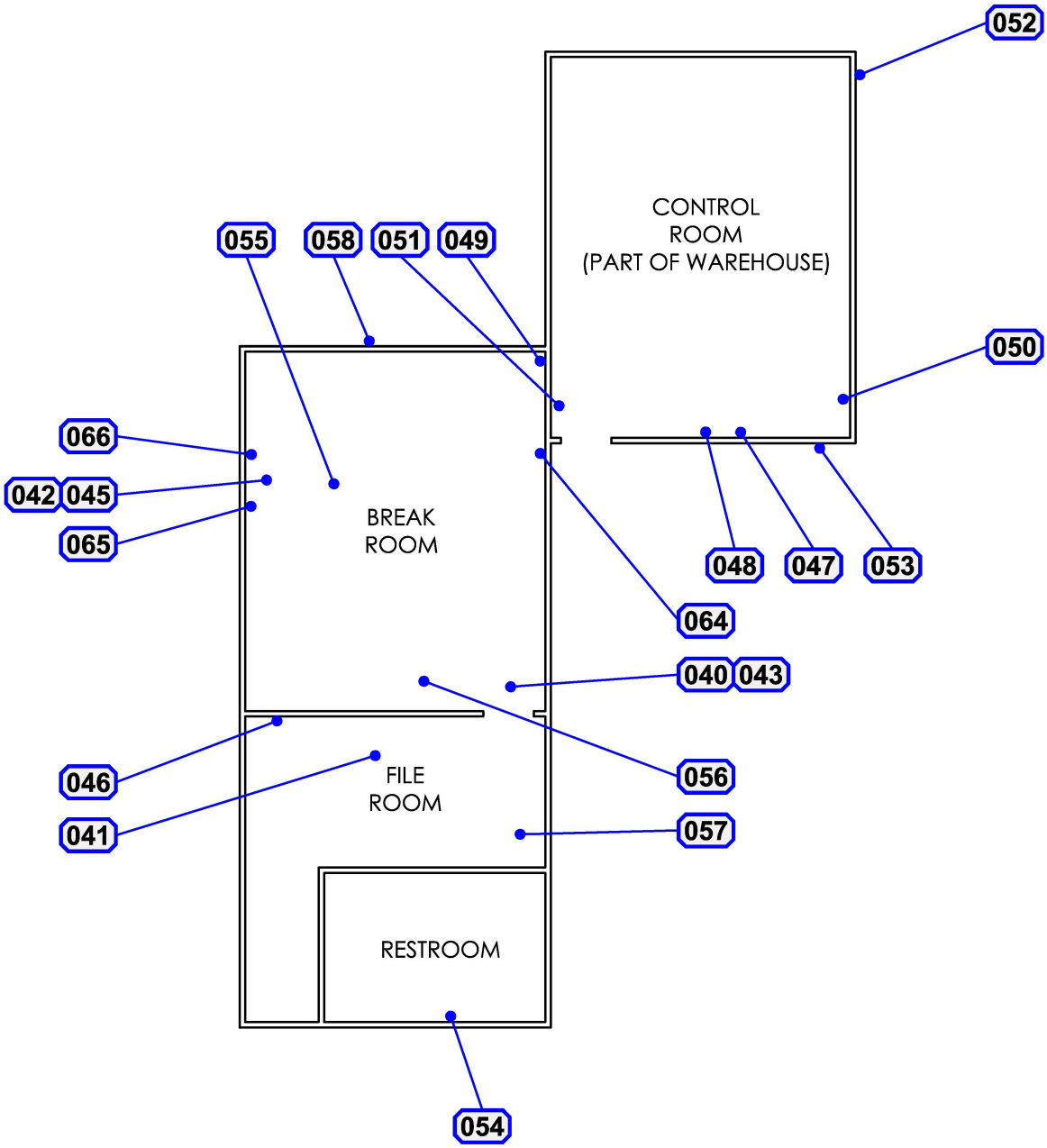

LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

8830 VINEYARD AVENUE - OUT BUILDING & WAREHOUSE

NOT TO SCALE

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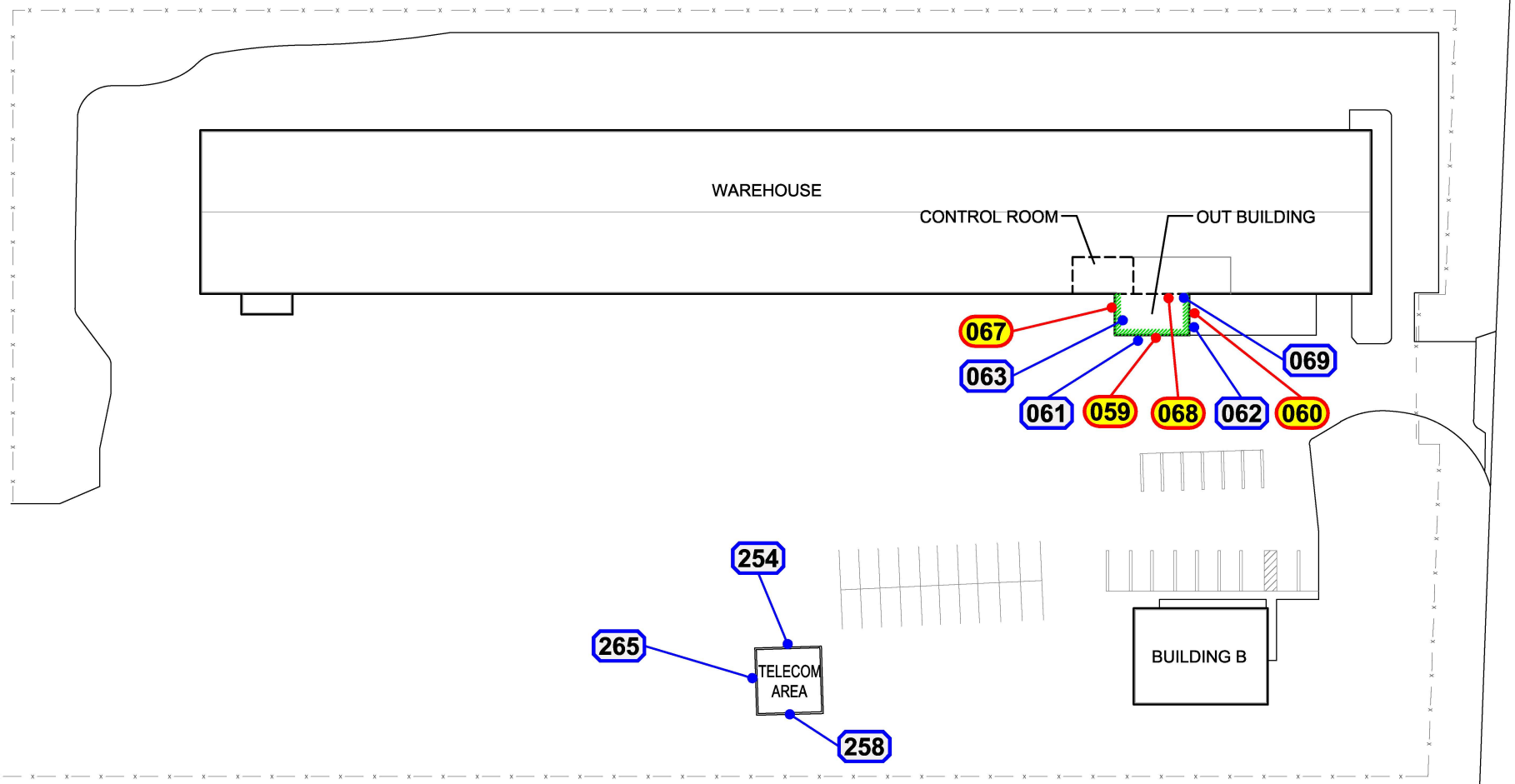
ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	4

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 09, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

130 LF OF ACM WINDOW PUTTY ON OUT BUILDING EXTERIOR.

40 SF OF ACM BLACK MASTIC ON OUT BUILDING ROOF.

N

8830 VINEYARD AVENUE EXTERIOR & ROOF AND TELECOM AREA

NOT TO SCALE

ASBESTOS DEMOLITION SURVEY

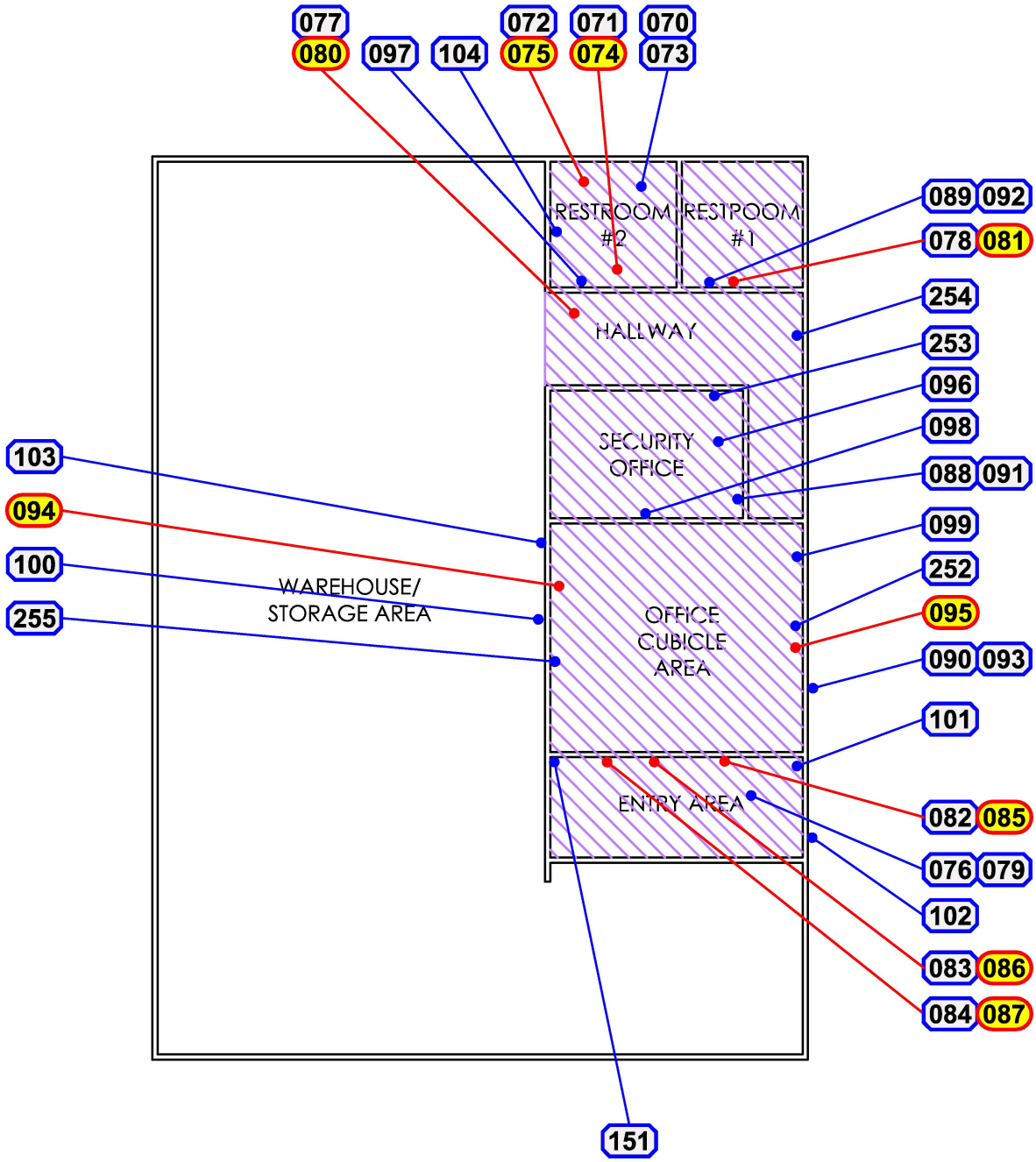
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	5

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 09, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

1,100 SF OF ACM BLACK/YELLOW MASTIC UNDER FLOOR TILE OR CARPET

8847 9TH STREET

NOT TO SCALE

N

ASBESTOS DEMOLITION SURVEY

6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

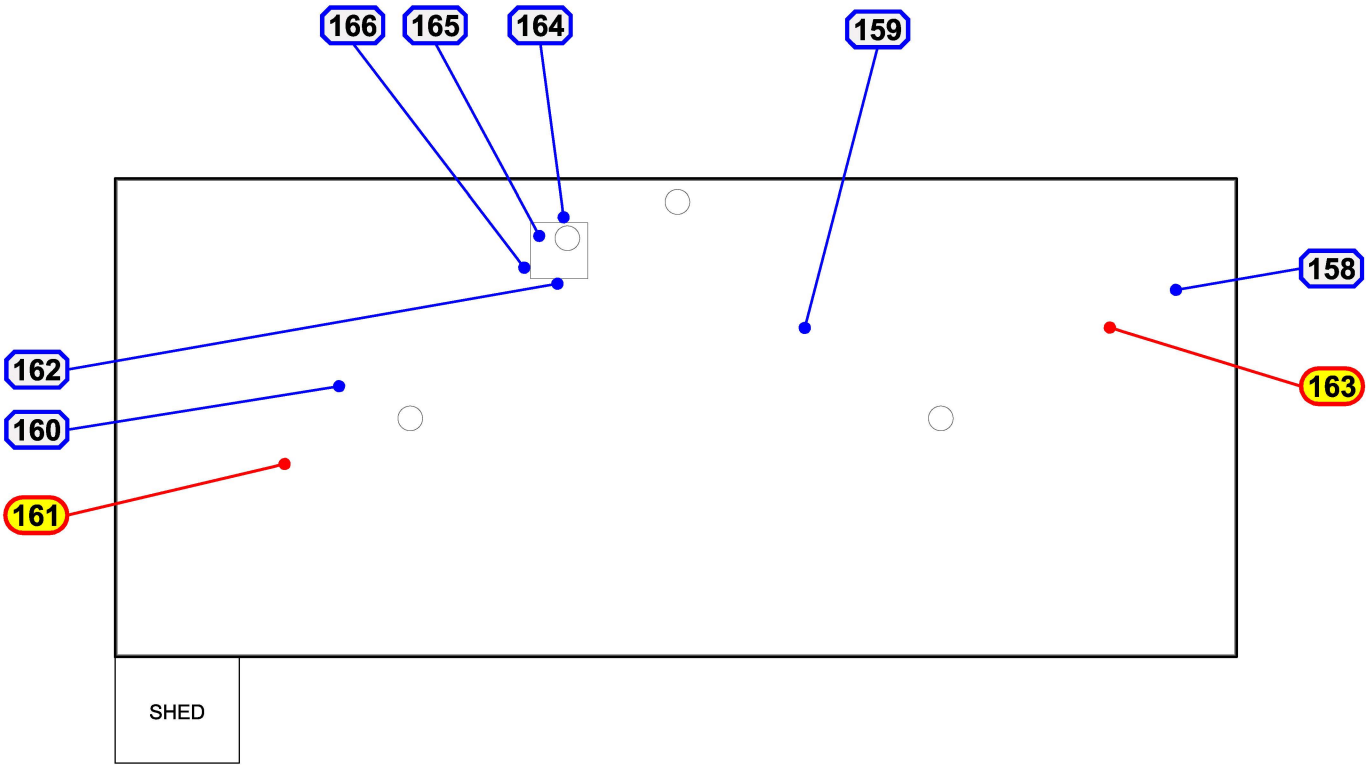
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue

Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	6

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: S:\Jobdocs\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

50 SF OF ACM GRAY/BLACK PENETRATION & SEAM MASTIC ON ROOF.

8847 9TH STREET - EXTERIOR & ROOF

NOT TO SCALE

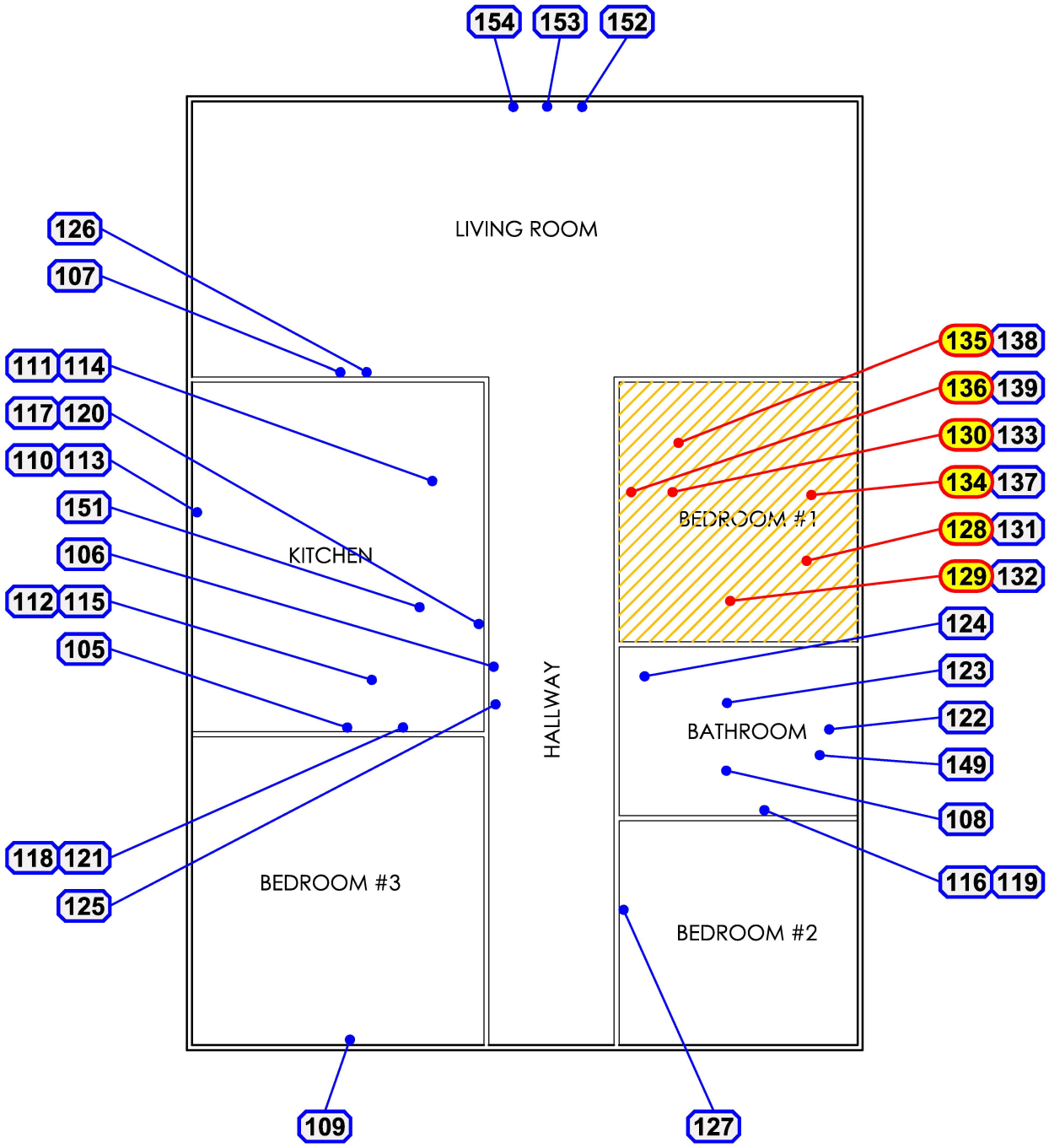
N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	7

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 01, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

66 SF OF ACM 9"X9" FLOOR TILE (TAN/GREEN ALTERNATING).

8803 BAKER AVENUE

NOT TO SCALE

N

ASBESTOS DEMOLITION SURVEY

6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

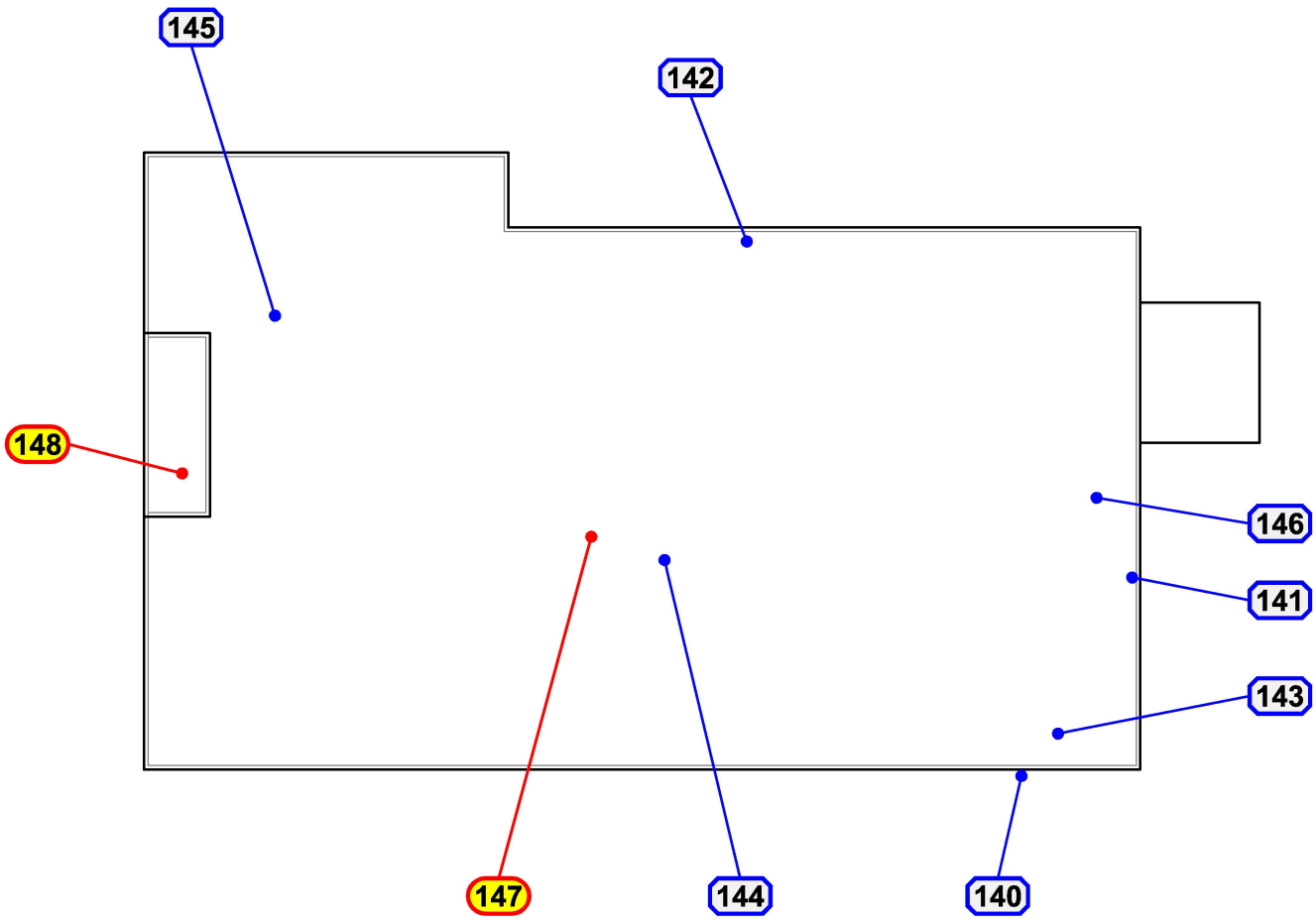
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue

Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	8

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: S:\Jobdocs\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

50 SF OF ACM BLACK PENETRATION SEAM MASTIC ON ROOF.

8803 BAKER AVENUE - EXTERIOR & ROOF

NOT TO SCALE

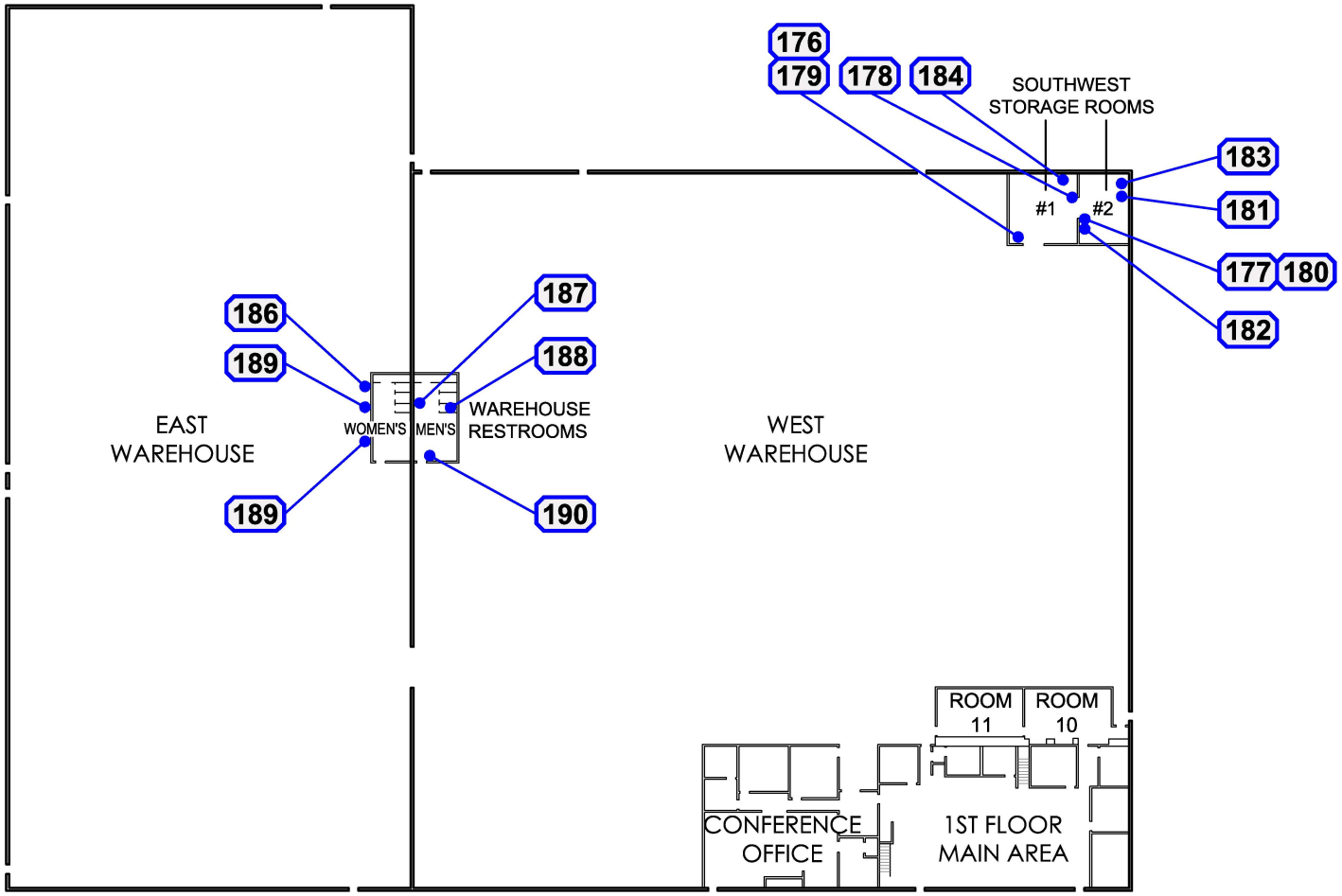
N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	9

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 01, 2019



LEGEND

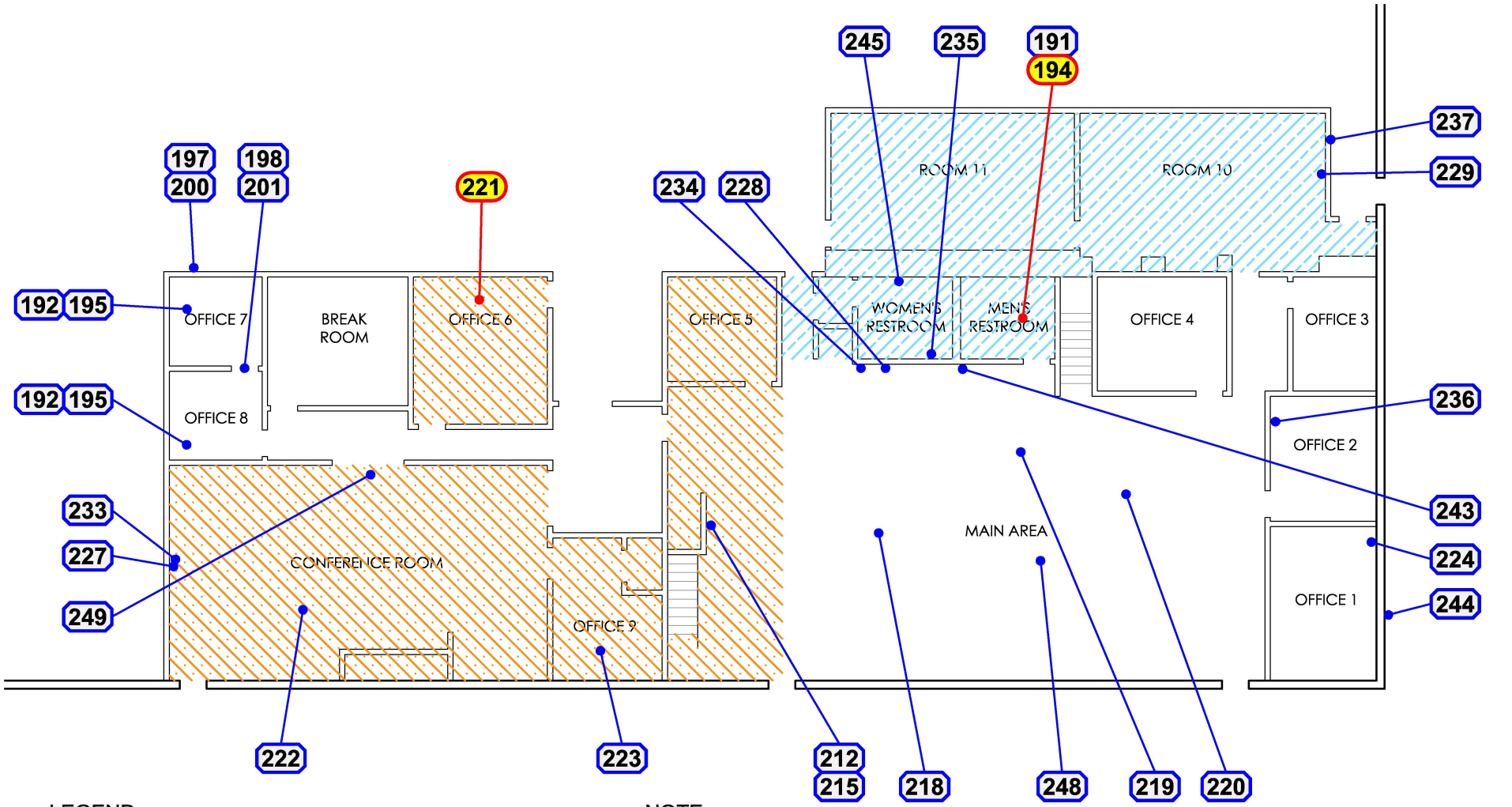
000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

N

8855 BAKER AVENUE FIRST FLOOR	**ASBESTOS DEMOLITION SURVEY** **6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE** 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013 / PHASE: 1	FIGURE
		REVIEW BY: E. HORNG / DRAWN BY: DAW	**10**
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781	

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 01, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

1,150 SF OF ACM GRAY/BLACK LEVELING COMPOUND/MASTIC UNDER 12"X12" BEIGE FLOOR TILE.

1,400 SF OF ACM BLACK/YELLOW CARPET MASTIC OVER 12"X12" BEIGE FLOOR TILE.

N

8855 BAKER AVENUE FIRST FLOOR - OFFICE AREA

NOT TO SCALE

ASBESTOS DEMOLITION SURVEY

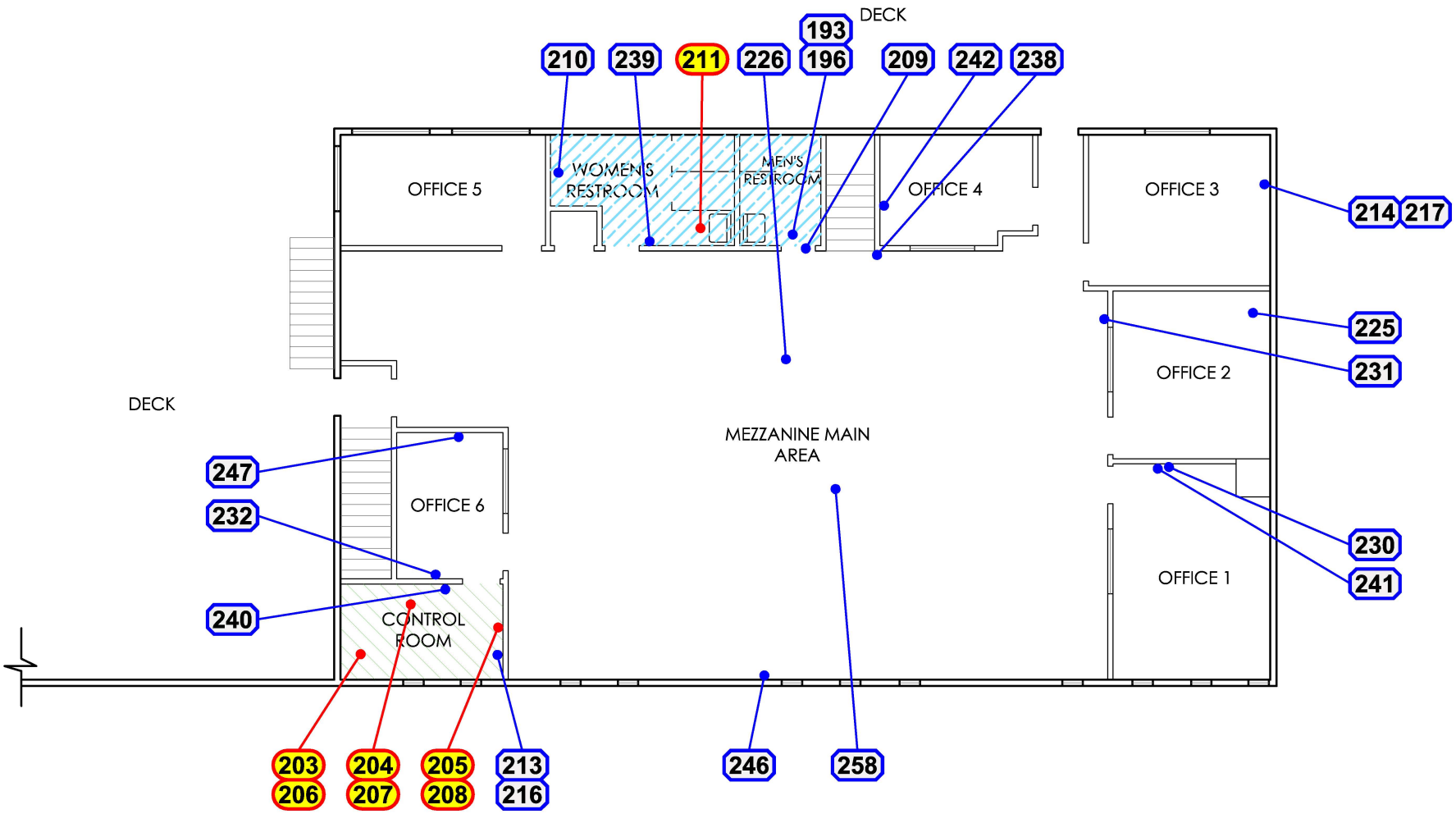
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	11

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: S:\Jobdocs\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

100 SF OF ACM 12"X12" BLACK FLOOR TILE AND ASSOCIATED ACM BLACK MASTIC.

180 SF OF ACM LEVELING COMPOUND/FLOOR TILE/MASTIC UNDER 12"X12" BEIGE FLOOR TILE.

N

8855 BAKER AVENUE MEZZANINE

NOT TO SCALE

ASBESTOS DEMOLITION SURVEY

6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	12

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

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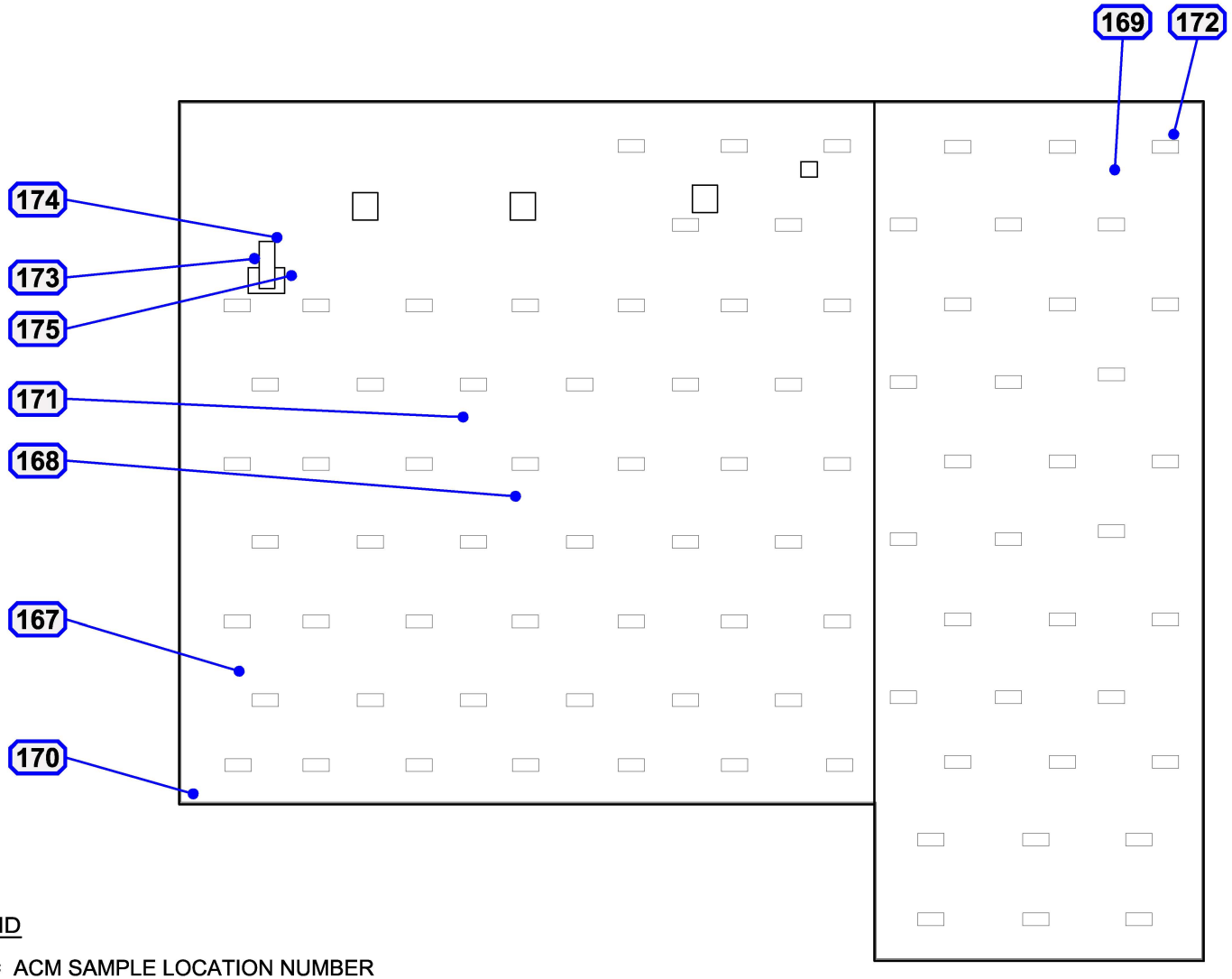


LEGEND

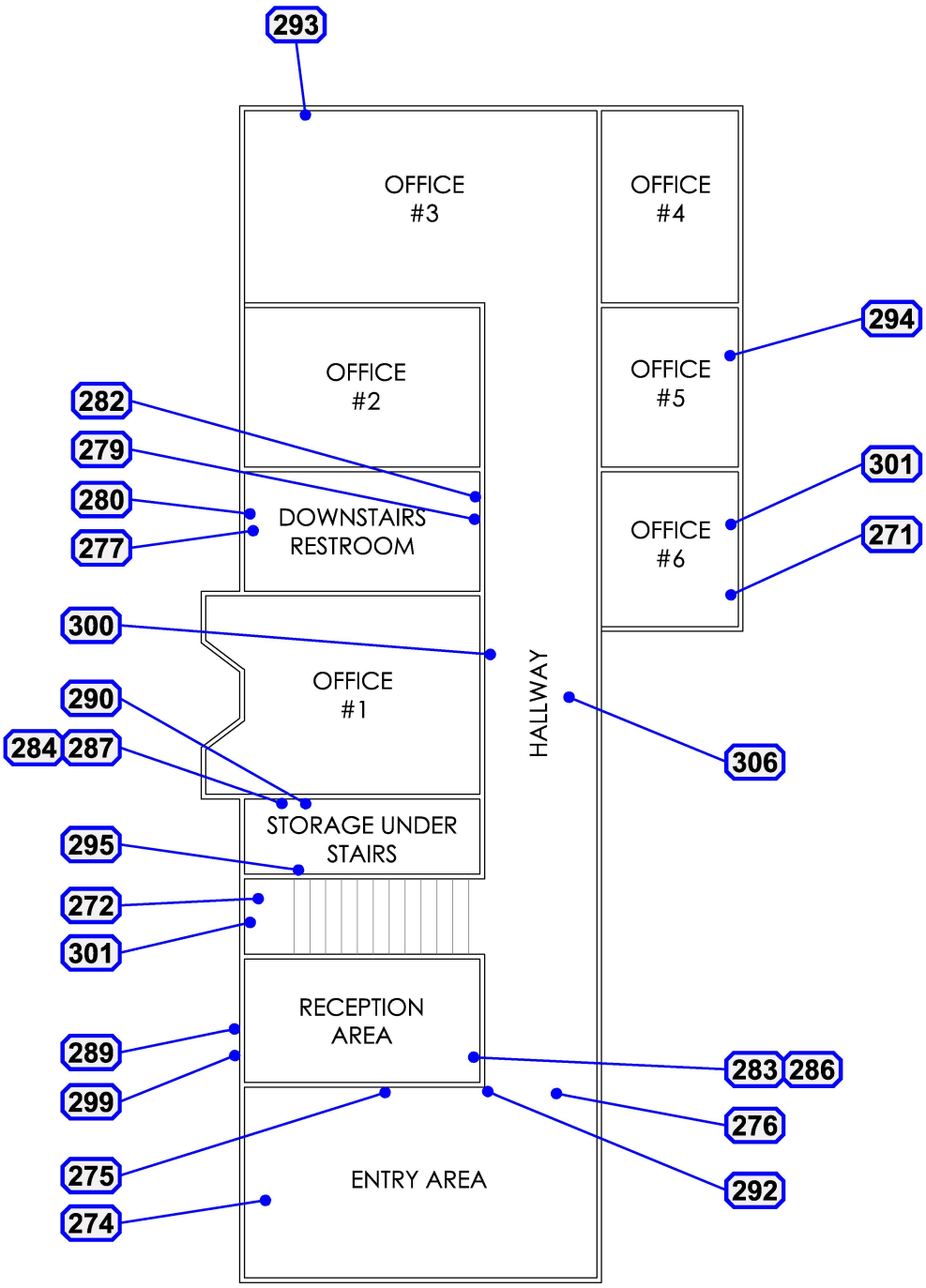
000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

N

8855 BAKER AVENUE EXTERIOR & ROOF	**ASBESTOS DEMOLITION SURVEY** **6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE** 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
		REVIEW BY: E. HORNG	DRAWN BY: DAW	13
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781		

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

8729 9TH STREET, SUITE 100 - FIRST FLOOR

NOT TO SCALE

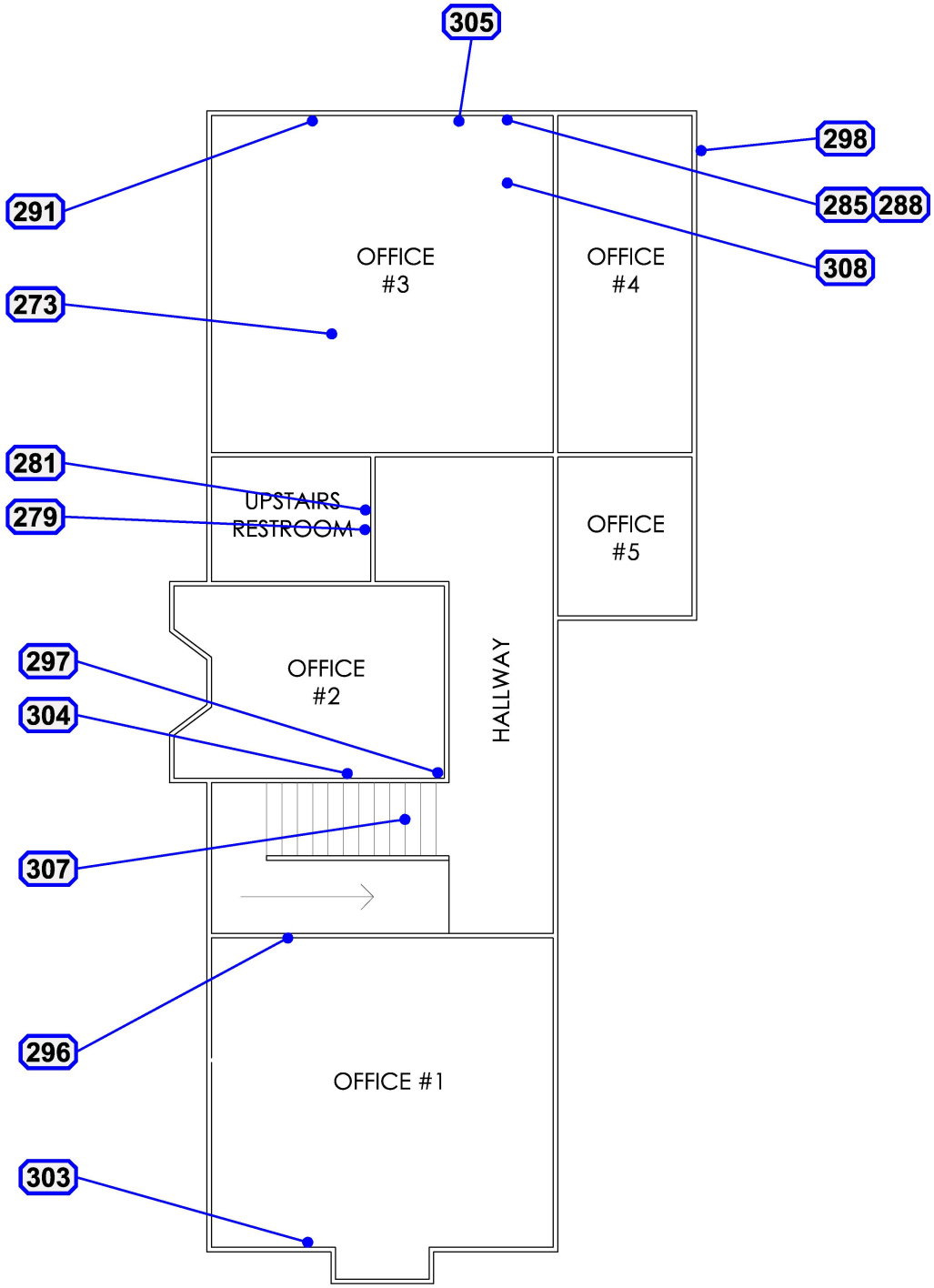
N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	14

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

8729 9TH STREET, SUITE 100 - SECOND FLOOR

NOT TO SCALE

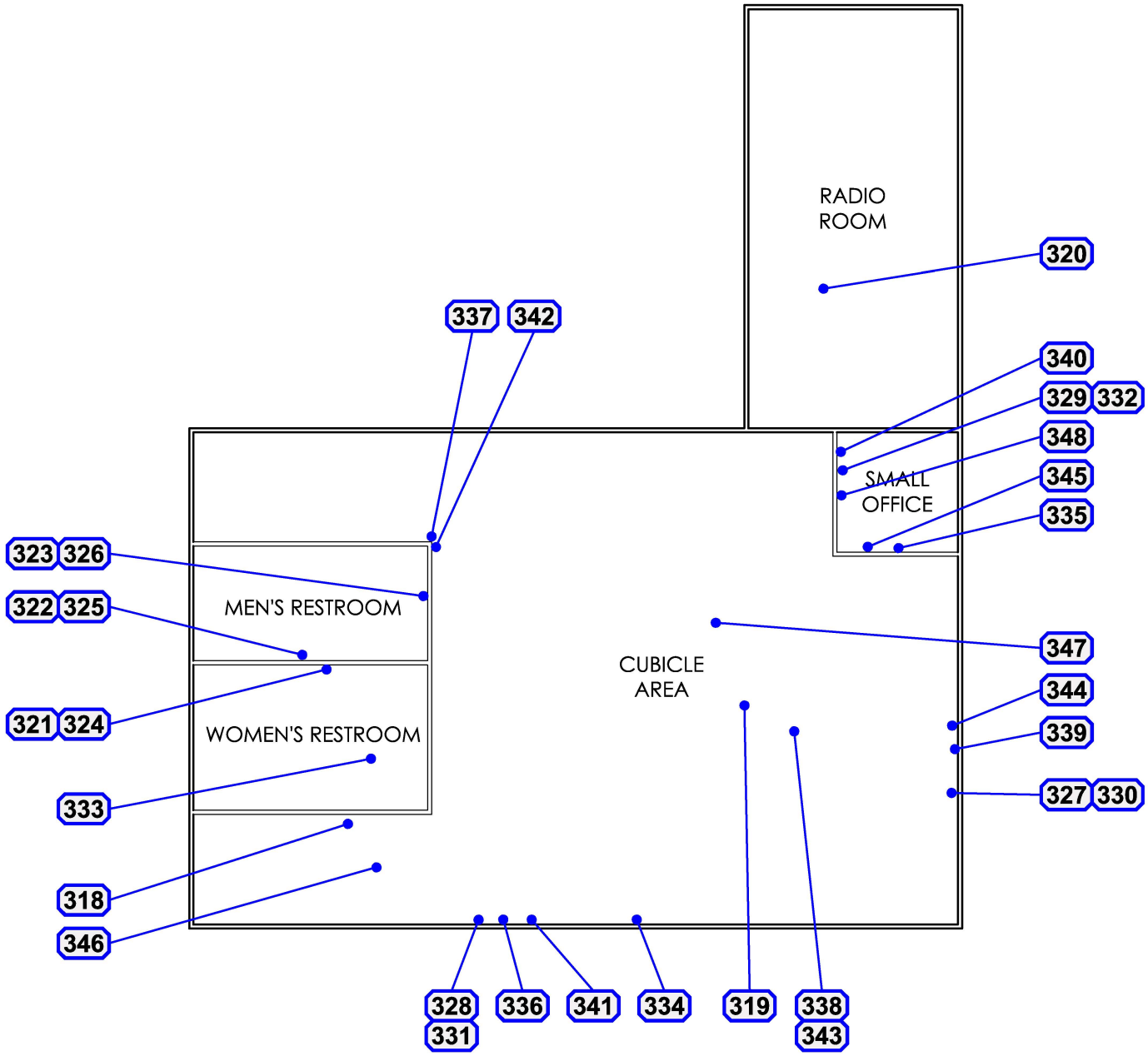
N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	15

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

8729 9TH STREET, SUITE 110

NOT TO SCALE

N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	16

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

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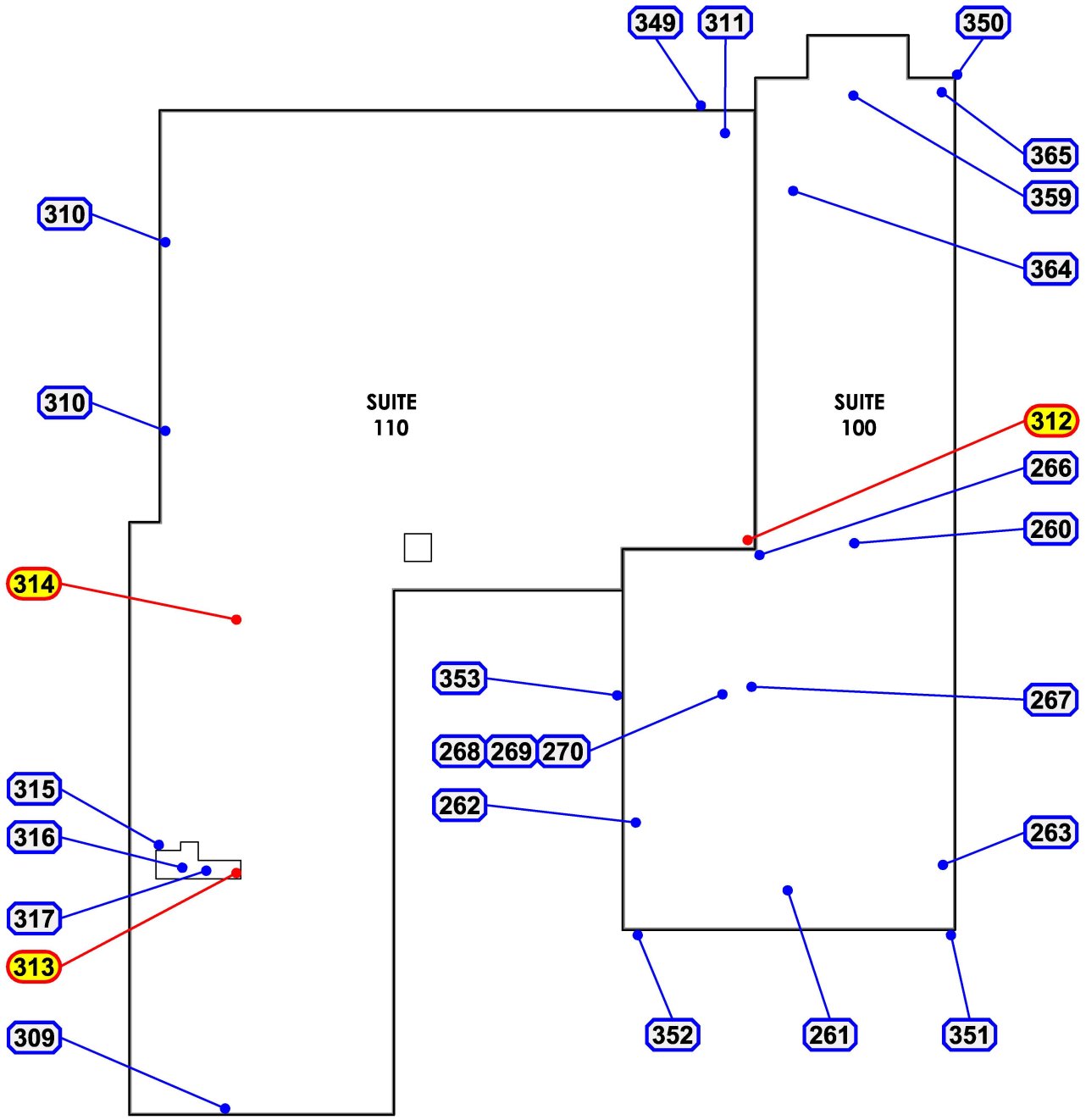

LEGEND

000 = ACM SAMPLE LOCATION NUMBER

000 = POSITIVE ACM SAMPLE LOCATION NUMBER

NOTE

50 SF OF ACM ROOFING MASTIC ON SUITE 110 ROOF.

8729 9TH STREET, SUITE 100 & 110 - EXTERIOR & ROOF

NOT TO SCALE

N

ASBESTOS DEMOLITION SURVEY
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE
8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	17

ATC
25 Cupania Circle
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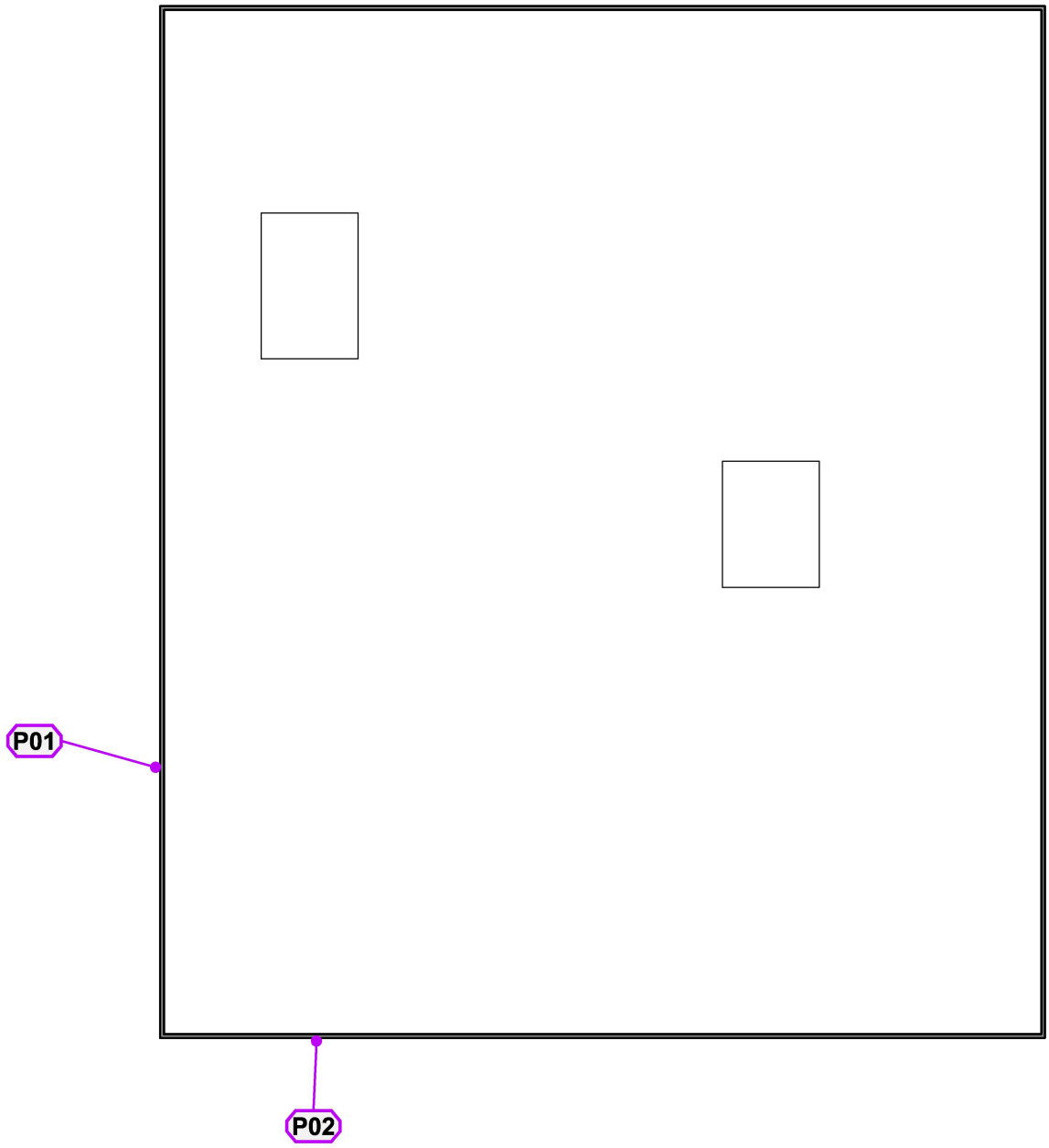

LEGEND

P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

8830 VINEYARD AVENUE - BUILDING B

NOT TO SCALE

N

LEAD DEMOLITION SURVEY

6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	18

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

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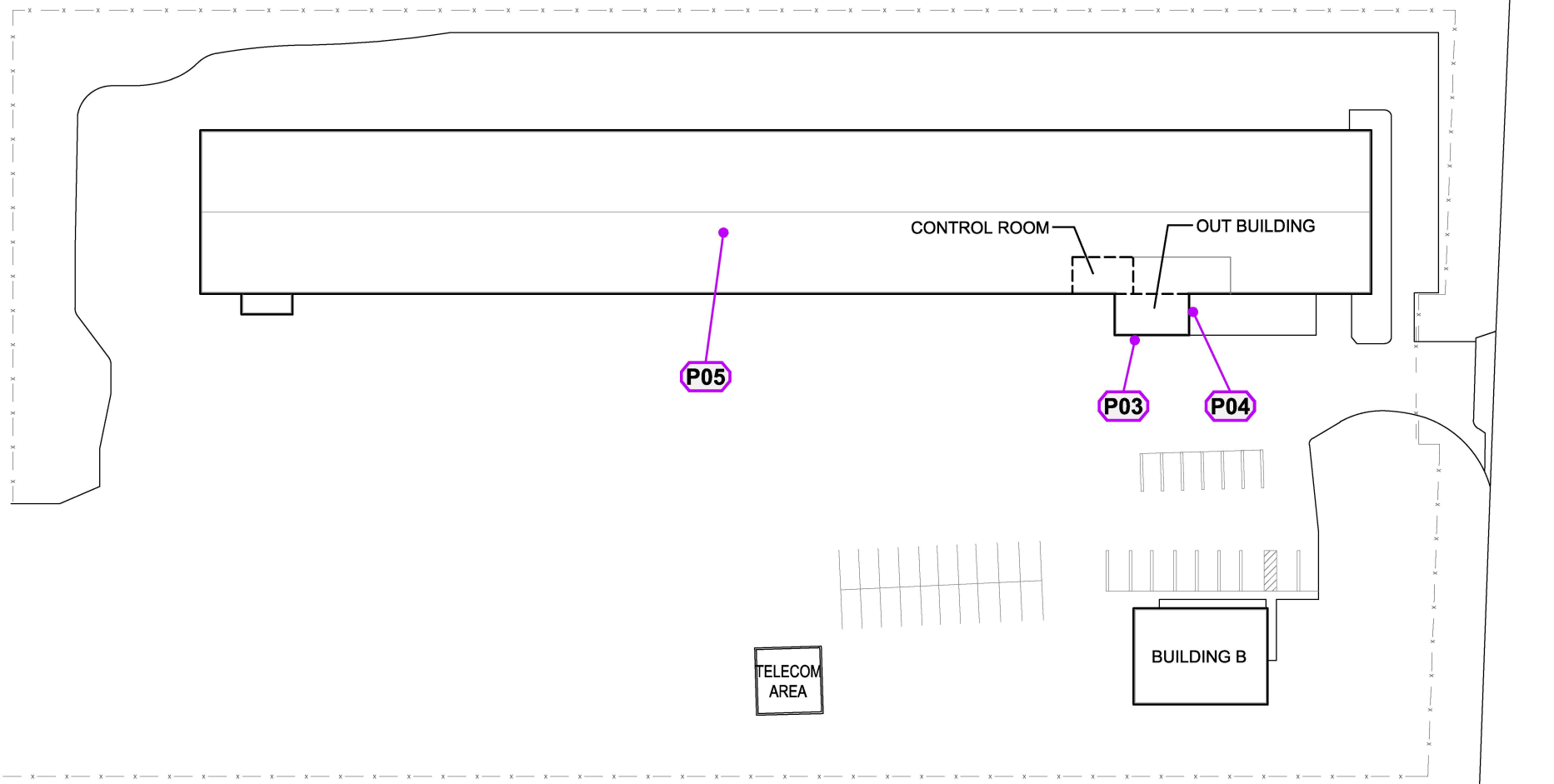

LEGEND

P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

N

8830 VINEYARD AVENUE AND TELECOM AREA	**LEAD DEMOLITION SURVEY** **6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE** 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
		REVIEW BY: E. HORNG	DRAWN BY: DAW	**19**
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781		

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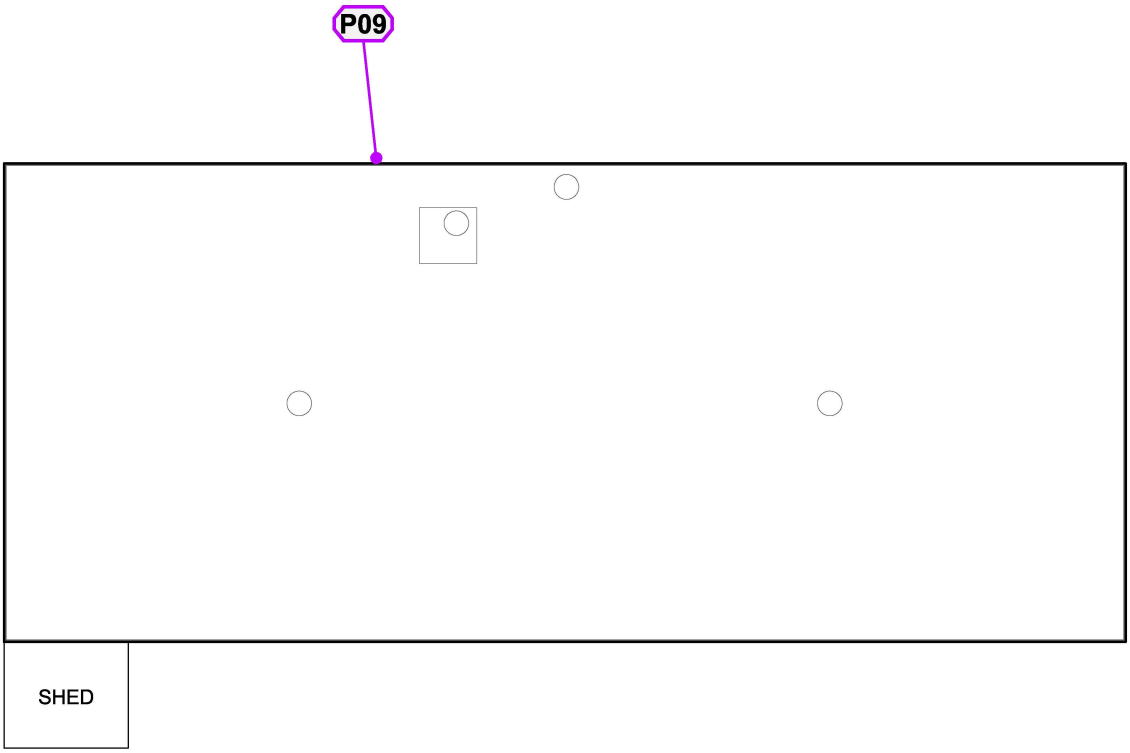

LEGEND

P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

8847 9TH STREET

NOT TO SCALE

N

LEAD DEMOLITION SURVEY

6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	20

ATC
25 Cupania Circle
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LEGEND

P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

8803 BAKER AVENUE

NOT TO SCALE

N

LEAD DEMOLITION SURVEY

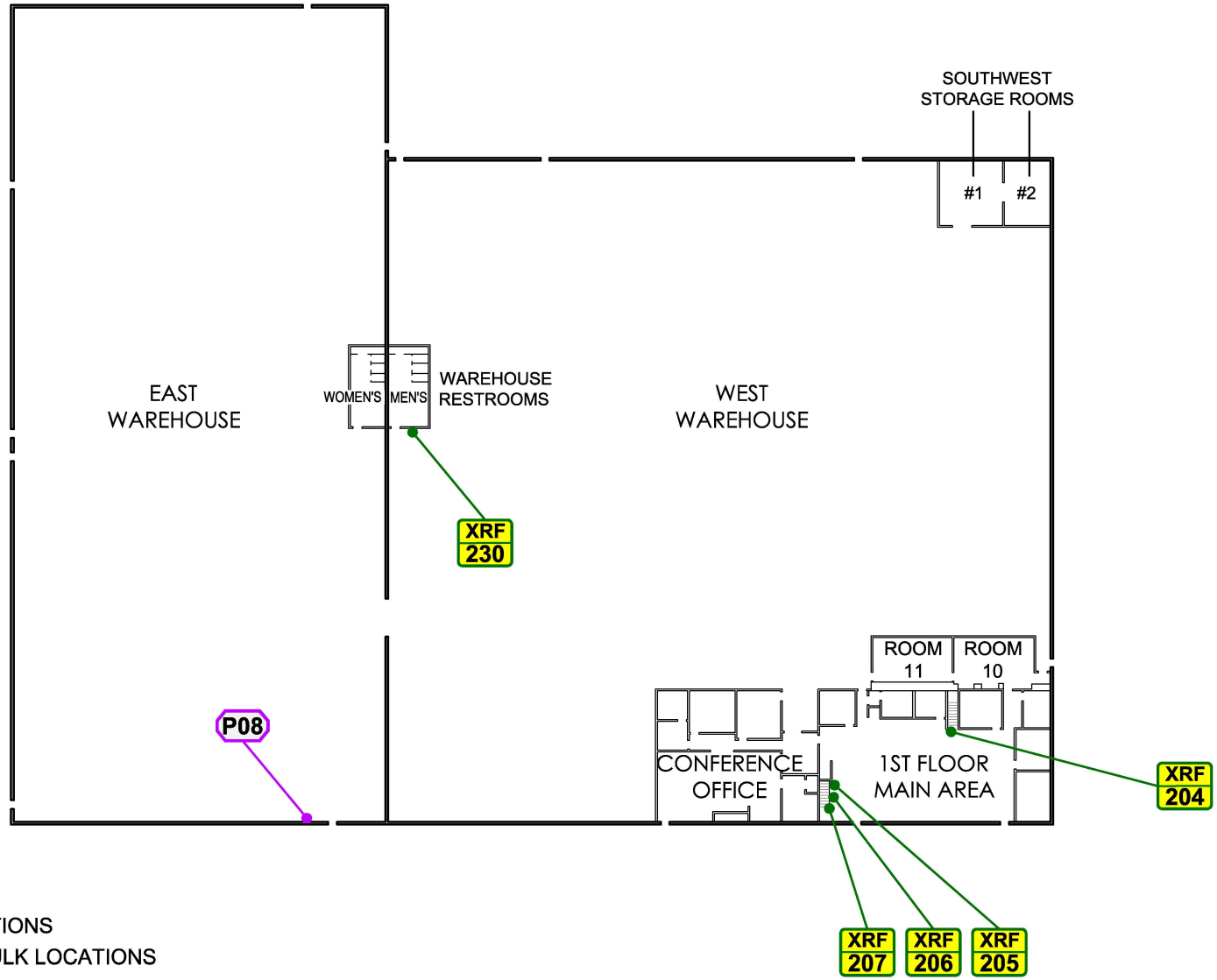
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	21

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

P00 = PAINT BULK LOCATIONS

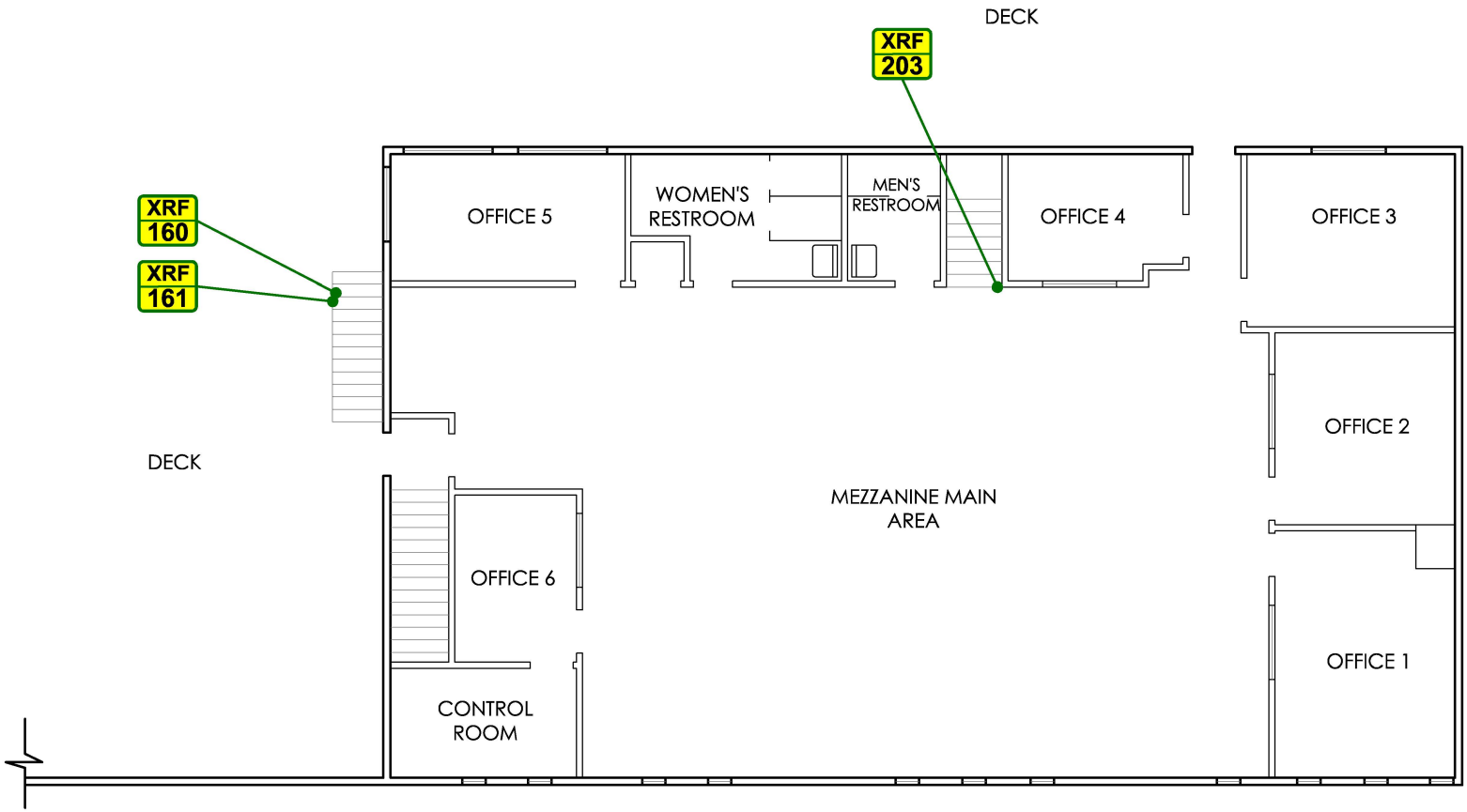
P00 = POSITIVE PAINT BULK LOCATIONS

XRF 000 = XRF POSITIVE LOCATIONS

N

8855 BAKER AVENUE FIRST FLOOR	**LEAD DEMOLITION SURVEY** **6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE** 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
		REVIEW BY: E. HORNG	DRAWN BY: DAW	**22**
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781		

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

P00 = PAINT BULK LOCATIONS

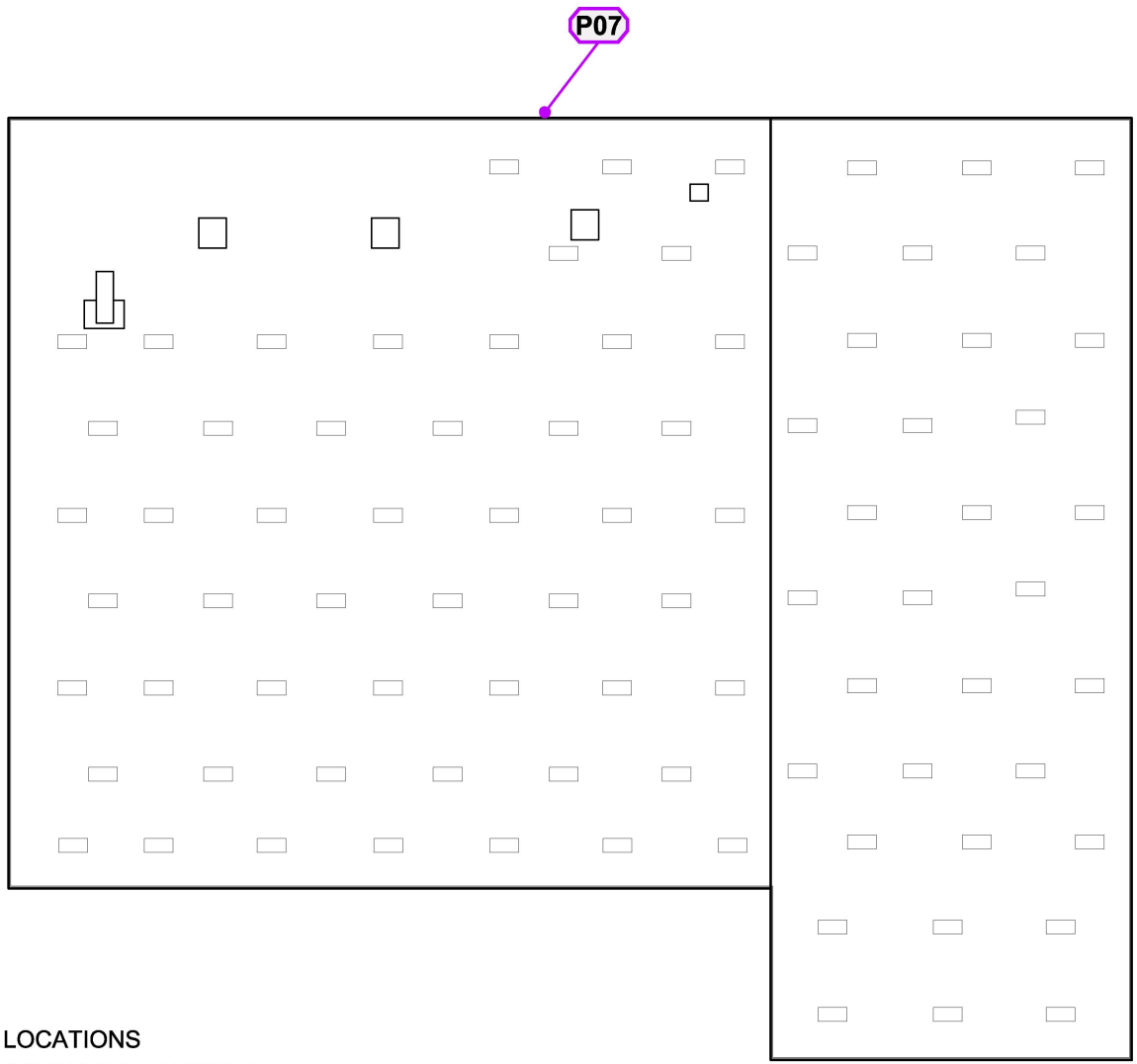
P00 = POSITIVE PAINT BULK LOCATIONS

XRF 000 = XRF POSITIVE LOCATIONS

N

8855 BAKER AVENUE MEZZANINE	**LEAD DEMOLITION SURVEY** **6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE** 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
		REVIEW BY: E. HORNG	DRAWN BY: DAW	23
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781		

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

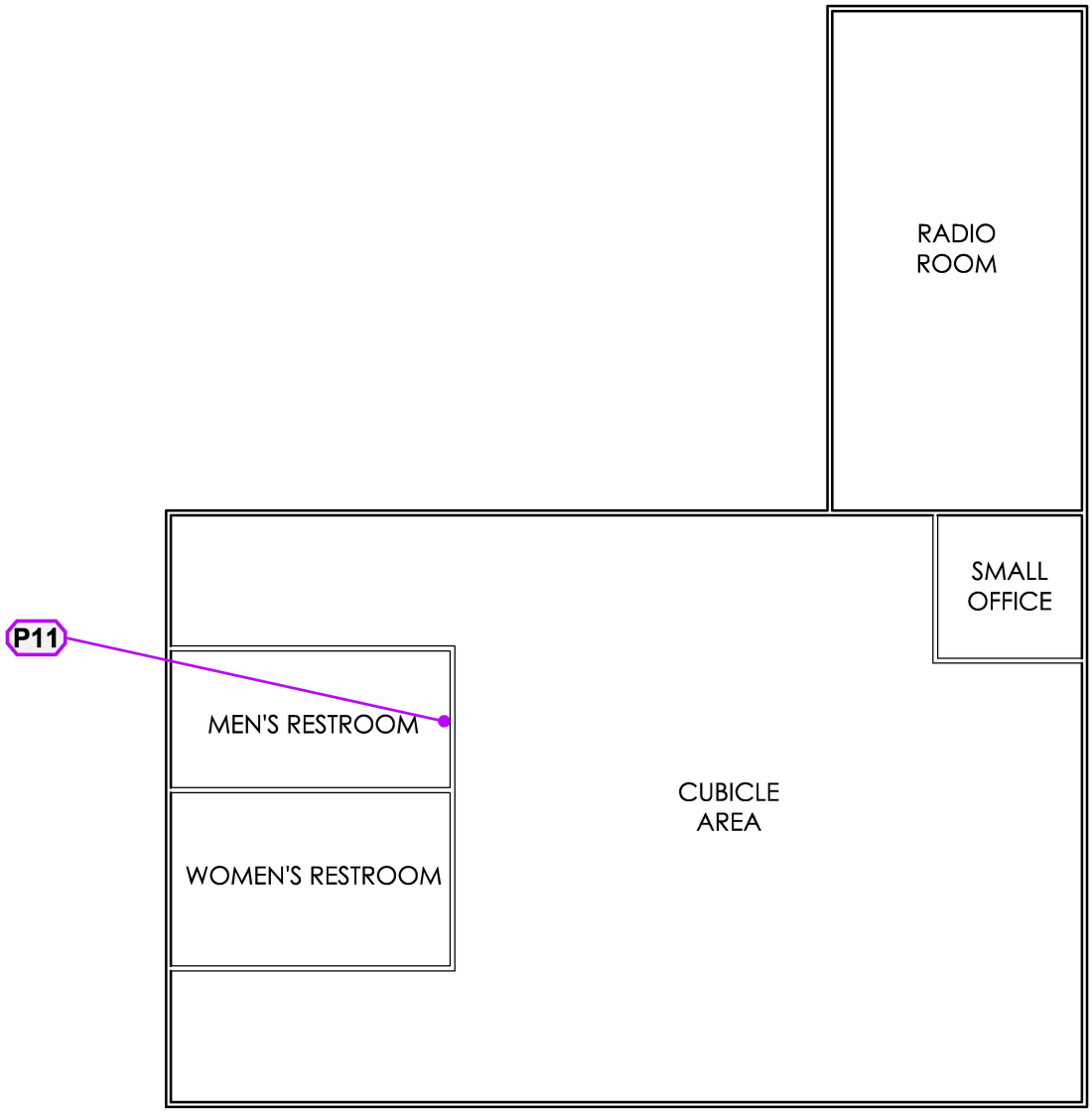
P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

N

8855 BAKER AVENUE	**LEAD DEMOLITION SURVEY** **6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE** 8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue Rancho Cucamonga, California	PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
		REVIEW BY: E. HORNG	DRAWN BY: DAW	**24**
NOT TO SCALE		ATC 25 Cupania Circle Monterey Park, CA 91755 Ph: (323) 517-9780 *** Fax: (323) 517-9781		

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019



LEGEND

P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

8729 9TH STREET, SUITE 110

NOT TO SCALE

N

LEAD DEMOLITION SURVEY

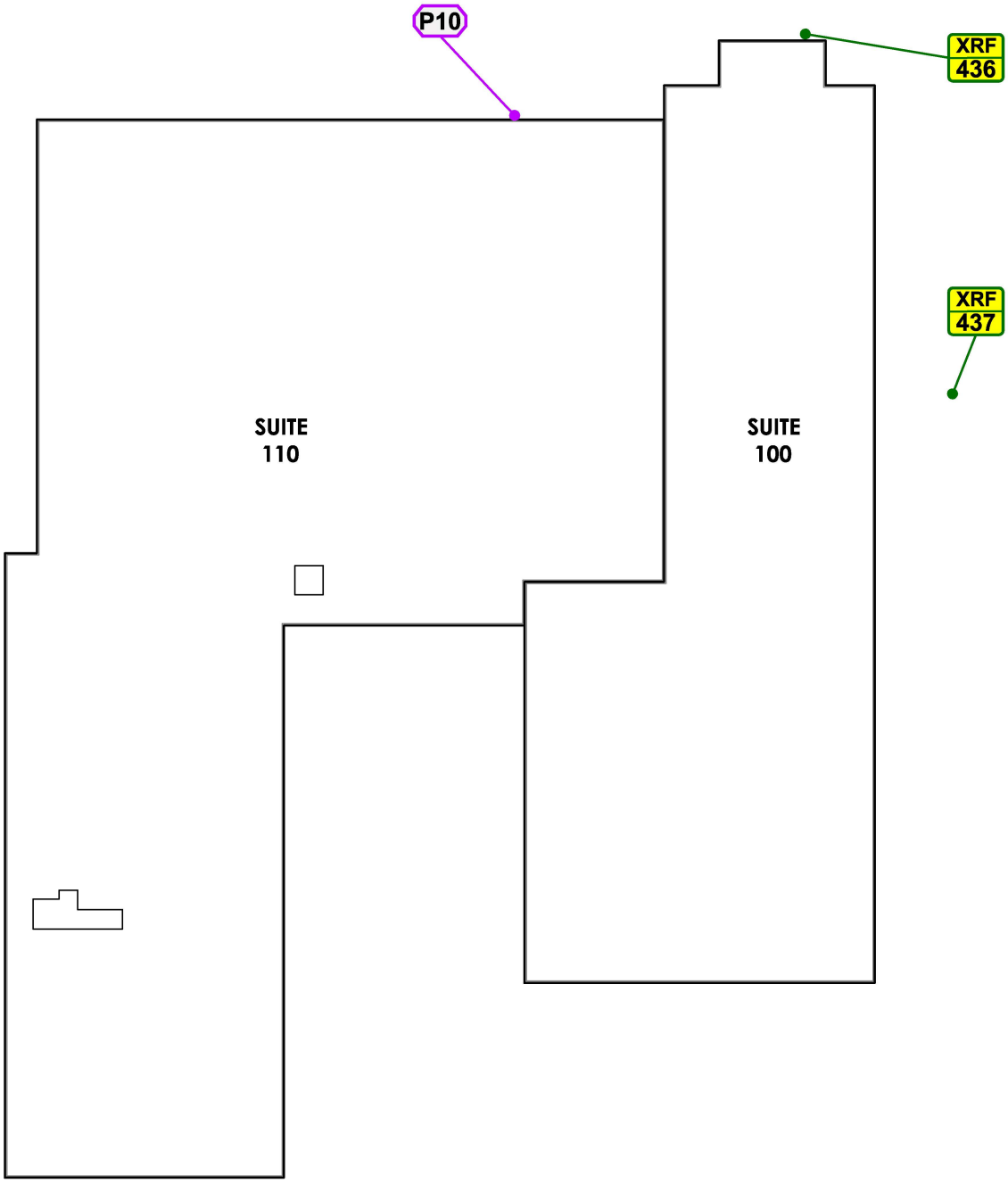
6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue, 8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	25

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 09, 2019



LEGEND

P00 = PAINT BULK LOCATIONS

P00 = POSITIVE PAINT BULK LOCATIONS

XRF 000 = XRF POSITIVE LOCATIONS

N

8729 9TH STREET, SUITE 100 & 110

NOT TO SCALE

LEAD DEMOLITION SURVEY

6 BUILDINGS - 9TH STREET AND VINEYARD AVENUE

8729 9th Street, 8847 9th Street, 8830 Vineyard Avenue,
8803 Baker Avenue and 8855 Baker Avenue
Rancho Cucamonga, California

PROJECT NUMBER: NPPAN19013	PHASE: 1	FIGURE
REVIEW BY: E. HORNG	DRAWN BY: DAW	26

ATC
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

FILE: W:\Panattoni Development Company (75426)\NPPAN19013 - 9th and Vinyard, Rancho Cucamonga - ACM LBP Survey\Cad\NPPAN19013_6 Buildings.dwg May 07, 2019

APPENDIX B

Personnel Asbestos and Lead Certifications

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

25 Cupania Circle
Monterey Park, CA 91755
Telephone 323-517-9780
Fax 323-517-9781
www.atcgroupservices.com

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Roberto De La Torre
Name

Certification No. 00-2837

Expires on 03/09/20

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	04/03/2020
Project Monitor	04/03/2020

Roberto de la Torre ID #: 14598

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

25 Cupania Circle
Monterey Park, CA 91755
Telephone 323-517-9780
Fax 323-517-9781
www.atcgroupservices.com

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Name: Elaine Horng

Certification No. 18-6392

Expires on 01/15/20

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
Elaine Horng	Lead Sampling Technician	LRC-00000188	4/4/2020

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

25 Cupania Circle
Monterey Park, CA 91755
Telephone 323-517-9780
Fax 323-517-9781
www.atcgroupservices.com

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Stephen R Drengson
Name

Certification No. 06-3975

Expires on 05/17/20

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	10/29/2020
Project Monitor	10/29/2020

Stephen R. Drengson ID #: 2895

APPENDIX C

Asbestos Laboratory Analytical Report and Sample Logs

LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com pasadenalab@latesting.com

LA Testing Order: 321910306
CustomerID: 32ATCA45
CustomerPO:
ProjectID:

Attn: **Stephen Drengson**
ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755

Phone: (323) 517-9780
Fax: (323) 517-9781
Received: 04/30/19 5:05 PM
Analysis Date: 5/3/2019
Collected:

Project: **Reference Order #321909673 | NPPAN19013 / Rancho Cucamonga**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 1000 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
051 *321910306-0001*	8830 Vineyard Ave Warehouse - 1st Floor - wall texture material (control rm)	Green/Beige Non-Fibrous Homogeneous	49.3	29.5		21.2 Non-fibrous (other)	<0.1 Chrysotile
054 *321910306-0002*	8830 Vineyard Ave Warehouse - 1st Floor - joint compound (RR)	Beige Non-Fibrous Homogeneous	14.5	57.5		28.0 Non-fibrous (other)	<0.1 Chrysotile
107 *321910306-0003*	8803 Baker Ave (Int) - 1st Floor - plaster - living room	Green Non-Fibrous Homogeneous	7.5	22.5		70.0 Non-fibrous (other)	<0.1 Chrysotile
122 *321910306-0004*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Green Non-Fibrous Homogeneous	10.7	33.0		56.3 Non-fibrous (other)	<0.1 Chrysotile
124 *321910306-0005*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Green Non-Fibrous Homogeneous	12.0	56.5		31.5 Non-fibrous (other)	<0.1 Chrysotile

Analyst(s)
Humberto Espinoza (9)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

Disclaimers: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. LA Testing suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing. This report must not be used to claim product endorsement by NVLAP or any agency of the United States Government. LA Testing bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layer samples. LA Testing liability is limited to the cost of sample analysis. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA

Initial report from 05/03/2019 08:05:02

LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com pasadenalab@latesting.com

LA Testing Order: 321910306
CustomerID: 32ATCA45
CustomerPO:
ProjectID:

Attn: **Stephen Drengson**
ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755

Phone: (323) 517-9780
Fax: (323) 517-9781
Received: 04/30/19 5:05 PM
Analysis Date: 5/3/2019
Collected:

Project: **Reference Order #321909673 | NPPAN19013 / Rancho Cucamonga**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 1000 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Matrix Organic	(%) Matrix Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
235 *321910306-0006*	8855 Baker - Int - 1st Floor - joint compound - 1st - women's RR	White/Beige Non-Fibrous Homogeneous	9.0	73.2		17.9 Non-fibrous (other)	<0.1 Chrysotile
240 *321910306-0007*	8855 Baker - Int - Mezzanine - joint compound - mezzanine computer room	White/Beige Non-Fibrous Homogeneous	9.6	66.6		23.8 Non-fibrous (other)	<0.1 Chrysotile
244 *321910306-0008*	8855 Baker - Int - 1st Floor - wall texture - 1st - office #1, W	Beige Non-Fibrous Homogeneous	31.9	29.6		38.4 Non-fibrous (other)	<0.1 Chrysotile
245 *321910306-0009*	8855 Baker - Int - 1st Floor - wall texture - 1st - women's RR	White/Beige Non-Fibrous Homogeneous	36.4	30.4		33.2 Non-fibrous (other)	<0.1 Chrysotile

Analyst(s)
Humberto Espinoza (9)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

Disclaimers: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. LA Testing suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing. This report must not be used to claim product endorsement by NVLAP or any agency of the United States Government. LA Testing bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layer samples. LA Testing liability is limited to the cost of sample analysis. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA

Initial report from 05/03/2019 08:05:02

THIS IS THE LAST PAGE OF THE REPORT.

LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321909673
Customer ID: 32ATCA45
Customer PO:
Project ID:

Attention: Elaine Horng
ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755

Project: NPPAN19013 / Rancho Cucamonga

Phone: (323) 517-9780
Fax: (323) 517-9781
Received Date: 04/19/2019 2:25 PM
Analysis Date: 04/26/2019 - 04/29/2019
Collected Date: 04/19/2019

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
001 *321909673-0001*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - 12"x12" beige floor tile (conf rm)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
002 *321909673-0002*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - 12"x12" beige floor tile (off #7)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
003 *321909673-0003*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - 12"x12" beige floor tile (off #4)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
004 *321909673-0004*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - F.T mastic - yellow (assoc w/ 001-003)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
005 *321909673-0005*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - F.T mastic - yellow (assoc w/ 001-003)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
006 *321909673-0006*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - F.T mastic - yellow (assoc w/ 001-003)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
007 *321909673-0007*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - green mosaic pattern S.F w/ backing ((N) @ entrance)	Green Fibrous Heterogeneous	10% Cellulose 10% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
008 *321909673-0008*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - green mosaic pattern S.F w/ backing (center area) (near women RR)	Green Fibrous Heterogeneous	10% Cellulose 10% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
009 *321909673-0009*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - green mosaic pattern S.F w/ backing ((E) @ exit)	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
010 *321909673-0010*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - S.F mastic - yellow (assoc w/ 007-009)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2019 15:12:30

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321909673
Customer ID: 32ATCA45
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
011 *321909673-0011*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - S.F mastic - yellow (assoc w/ 007-009)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
012 *321909673-0012*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - S.F mastic - yellow (assoc w/ 007-009)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
013 *321909673-0013*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - baseboard (N @ entrance)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
014 *321909673-0014*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - baseboard (center area, near women RR)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
015 *321909673-0015*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - baseboard (copy rm)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
016 *321909673-0016*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - baseboard mastic (assoc w/ 013-016)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
017 *321909673-0017*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - baseboard mastic (assoc w/ 013-016)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
018 *321909673-0018*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - baseboard mastic (assoc w/ 013-016)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
019 *321909673-0019*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - wallboard (conf rm)	Brown/White Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
020 *321909673-0020*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - wallboard (near East exit)	Brown/White Fibrous Heterogeneous	8% Cellulose 5% Glass	87% Non-fibrous (Other)	None Detected
021 *321909673-0021*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - wallboard (office #7)	Brown/White Fibrous Heterogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected
022 *321909673-0022*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - wallpaper (conf. rm)	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
023 *321909673-0023*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - wallpaper (copy rm)	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2019 15:12:30

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321909673
Customer ID: 32ATCA45
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
024 *321909673-0024*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - wallpaper (receptionist)	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
025 *321909673-0025*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - 2'x4' fissured ceiling panel (conf rm)	Brown Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
026 *321909673-0026*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - 2'x4' fissured ceiling panel (off #2)	Brown/White Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
027 *321909673-0027*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - 2'x4' fissured ceiling panel (near East exit)	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Glass	20% Perlite 20% Non-fibrous (Other)	None Detected
028-Floor Tile *321909673-0028* *No LC present for analysis*	8830 Vineyard Ave Bldg B - 1st Floor - Interior - floor leveling compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
029 *321909673-0029*	8830 Vineyard Ave Bldg B - Ground Floor - Exterior - exterior stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
030-Fiberboard Like/Paint *321909673-0030*	8830 Vineyard Ave Bldg B - Ground Floor - Exterior - exterior stucco	Gray Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
031-Fiberboard Like/Paint *321909673-0031*	8830 Vineyard Ave Bldg B - Ground Floor - Exterior - exterior stucco	Gray/White Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
032 *321909673-0032*	8830 Vineyard Ave Bldg B - Ground Floor - Exterior - exterior stucco	White Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
033 *321909673-0033*	8830 Vineyard Ave Bldg B - Ground Floor - Exterior - exterior stucco	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
034 *321909673-0034*	8830 Vineyard Ave Bldg B - Roof - roof mastic penetration & seam	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
035 *321909673-0035*	8830 Vineyard Ave Bldg B - Roof - roof mastic penetration & seam	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
036 *321909673-0036*	8830 Vineyard Ave Bldg B - Roof - roof mastic penetration & seam	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
037 *321909673-0037*	8830 Vineyard Ave Bldg B - Roof - HVAC roof mastic - HVAC S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2019 15:12:30

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321909673
Customer ID: 32ATCA45
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
038 *321909673-0038*	8830 Vineyard Ave Bldg B - Roof - HVAC roof mastic - HVAC S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
039 *321909673-0039*	8830 Vineyard Ave Bldg B - Roof - HVAC roof mastic - HVAC N	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
040 *321909673-0040*	8830 Vineyard Ave Warehouse - 1st Floor - grey mosaic patt S.F w/ backing (out bldg) (file rm)	Gray/Green Fibrous Homogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
041 *321909673-0041*	8830 Vineyard Ave Warehouse - 1st Floor - grey mosaic patt S.F w/ backing (out bldg) (break rm)	Gray/Green Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
042 *321909673-0042*	8830 Vineyard Ave Warehouse - 1st Floor - grey mosaic patt S.F w/ backing (out bldg) (break rm)	Gray Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
043 *321909673-0043*	8830 Vineyard Ave Warehouse - 1st Floor - S.F mastic - yellow (assoc w/ 040-042)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
044 *321909673-0044*	8830 Vineyard Ave Warehouse - 1st Floor - S.F mastic - yellow (assoc w/ 040-042)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
045 *321909673-0045*	8830 Vineyard Ave Warehouse - 1st Floor - S.F mastic - yellow (assoc w/ 040-042)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
046 *321909673-0046*	8830 Vineyard Ave Warehouse - 1st Floor - wallboard (file rm)	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
047 *321909673-0047*	8830 Vineyard Ave Warehouse - 1st Floor - wallboard (break rm)	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
048 *321909673-0048*	8830 Vineyard Ave Warehouse - 1st Floor - wallboard (control rm)	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
049 *321909673-0049*	8830 Vineyard Ave Warehouse - 1st Floor - wall texture material (file rm)	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
050 *321909673-0050*	8830 Vineyard Ave Warehouse - 1st Floor - wall texture material (control rm)	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2019 15:12:30

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321909673
Customer ID: 32ATCA45
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
051 *321909673-0051*	8830 Vineyard Ave Warehouse - 1st Floor - wall texture material (control rm)	Green/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
052 *321909673-0052*	8830 Vineyard Ave Warehouse - 1st Floor - joint compound (N/W) (outside control rm)	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
053 *321909673-0053*	8830 Vineyard Ave Warehouse - 1st Floor - joint compound (E)	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
054 *321909673-0054*	8830 Vineyard Ave Warehouse - 1st Floor - joint compound (RR)	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
055 *321909673-0055*	8830 Vineyard Ave Warehouse - 1st Floor - 2'x4' fissured ceiling panel (break rm)	Brown/White Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
056 *321909673-0056*	8830 Vineyard Ave Warehouse - 1st Floor - 2'x4' fissured ceiling panel (break rm)	Brown/White Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
057 *321909673-0057*	8830 Vineyard Ave Warehouse - 1st Floor - 2'x4' fissured ceiling panel (control rm)	Gray/White Non-Fibrous Heterogeneous	50% Cellulose 10% Glass	20% Perlite 20% Non-fibrous (Other)	None Detected
058 *321909673-0058*	8830 Vineyard Ave - Exterior - window putty (W)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
059 *321909673-0059*	8830 Vineyard Ave - Exterior - window putty (S)	Gray/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
060 *321909673-0060*	8830 Vineyard Ave - Exterior - window putty (E)	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
061 *321909673-0061*	8830 Vineyard Ave - Roof - roofing felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
062 *321909673-0062*	8830 Vineyard Ave - Roof - roofing felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
063 *321909673-0063*	8830 Vineyard Ave - Roof - roofing felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
064 *321909673-0064*	8830 Vineyard Ave Warehouse - 1st Floor - wall barrier paper - break room	Brown/Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (Other)	None Detected
065 *321909673-0065*	8830 Vineyard Ave Warehouse - 1st Floor - wall barrier paper - break room	Brown/Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (Other)	None Detected

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LA Testing Order: 321909673
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
066 *321909673-0066*	8830 Vineyard Ave Warehouse - 1st Floor - wall barrier paper - break room	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
067 *321909673-0067*	8830 Vineyard Ave - Roof - roofing mastic (ext) out building	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
068 *321909673-0068*	8830 Vineyard Ave - Roof - roofing mastic (ext) out building	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
069 *321909673-0069*	8830 Vineyard Ave - Roof - roofing mastic (ext) out building	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
070 *321909673-0070*	8847 9th St - Int. - 1st Floor - 12"x12" brown stone pattened FT - RR #2	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
071 *321909673-0071*	8847 9th St - Int. - 1st Floor - 12"x12" brown stone pattened FT - RR #2	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
072 *321909673-0072*	8847 9th St - Int. - 1st Floor - 12"x12" brown stone pattened FT - RR #2	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
073 *321909673-0073*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 70-72 - RR #2	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
074 *321909673-0074*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 70-72 - RR #2	Black/Yellow Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
075 *321909673-0075*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 70-72 - RR #2	Black/Beige Non-Fibrous Heterogeneous		97% Non-fibrous (Other)	3% Chrysotile
076 *321909673-0076*	8847 9th St - Int. - 1st Floor - 12"x12" blue FT - entry area	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
077 *321909673-0077*	8847 9th St - Int. - 1st Floor - 12"x12" blue FT - hallway	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
078 *321909673-0078*	8847 9th St - Int. - 1st Floor - 12"x12" blue FT - RR #1	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
079 *321909673-0079*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 76-78	Black/Yellow Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
080 *321909673-0080*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 76-78	Black/Yellow Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
081 *321909673-0081*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 76-78	Black/Yellow Non-Fibrous Heterogeneous		94% Non-fibrous (Other)	6% Chrysotile
082 *321909673-0082*	8847 9th St - Int. - 1st Floor - 12"x12" gray FT patch - entry area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
083 *321909673-0083*	8847 9th St - Int. - 1st Floor - 12"x12" gray FT patch - entry area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
084 *321909673-0084*	8847 9th St - Int. - 1st Floor - 12"x12" gray FT patch - entry area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
085 *321909673-0085*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 82-84	Black/Yellow Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
086 *321909673-0086*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 82-84	Black/Yellow Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
087 *321909673-0087*	8847 9th St - Int. - 1st Floor - mastic assoc. w/ 82-84	Black/Yellow Non-Fibrous Heterogeneous		98% Non-fibrous (Other)	2% Chrysotile
088 *321909673-0088*	8847 9th St - Int. - 1st Floor - baseboard - security office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
089 *321909673-0089*	8847 9th St - Int. - 1st Floor - baseboard - restroom #1	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
090 *321909673-0090*	8847 9th St - Int. - 1st Floor - baseboard - office cubicle area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
091 *321909673-0091*	8847 9th St - Int. - 1st Floor - baseboard mastic assoc. w/ 88-90	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
092 *321909673-0092*	8847 9th St - Int. - 1st Floor - baseboard mastic assoc. w/ 88-90	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
093 *321909673-0093*	8847 9th St - Int. - 1st Floor - baseboard mastic assoc. w/ 88-90	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
094 *321909673-0094*	8847 9th St - Int. - 1st Floor - carpet mastic - office cubicle area	Black/Yellow Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
095 *321909673-0095*	8847 9th St - Int. - 1st Floor - carpet mastic - office cubicle area	Black/Yellow Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
096 *321909673-0096*	8847 9th St - Int. - 1st Floor - carpet mastic - security office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
097 *321909673-0097*	8847 9th St - Int. - 1st Floor - wall texture - hallway	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
098 *321909673-0098*	8847 9th St - Int. - 1st Floor - wall texture - security office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
099 *321909673-0099*	8847 9th St - Int. - 1st Floor - wall texture - office cubicle area, N	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
100 *321909673-0100*	8847 9th St - Int. - 1st Floor - wall texture - office cubicle area, S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
101 *321909673-0101*	8847 9th St - Int. - 1st Floor - wall texture - entry area N/W	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
102 *321909673-0102*	8847 9th St - Int. - 1st Floor - wallboard - entry area	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
103 *321909673-0103*	8847 9th St - Int. - 1st Floor - wallboard - office cubicle area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
104 *321909673-0104*	8847 9th St - Int. - 1st Floor - wallboard - RR #2	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
105-Finish Coat *321909673-0105*	8803 Baker Ave (Int) - 1st Floor - plaster - kitchen	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
105-Base Coat *321909673-0105A*	8803 Baker Ave (Int) - 1st Floor - plaster - kitchen	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
106-Plaster *321909673-0106*	8803 Baker Ave (Int) - 1st Floor - plaster - hallway	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
106-Drywall *321909673-0106A*	8803 Baker Ave (Int) - 1st Floor - plaster - hallway	Brown/White Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
107-Finish Coat *321909673-0107*	8803 Baker Ave (Int) - 1st Floor - plaster - living room	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
107-Base Coat *321909673-0107A*	8803 Baker Ave (Int) - 1st Floor - plaster - living room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
108-Finish Coat *321909673-0108*	8803 Baker Ave (Int) - 1st Floor - plaster - bathroom ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
108-Base Coat *321909673-0108A*	8803 Baker Ave (Int) - 1st Floor - plaster - bathroom ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
109 *321909673-0109*	8803 Baker Ave (Int) - 1st Floor - plaster - bedroom #3	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
110 *321909673-0110*	8803 Baker Ave (Int) - 1st Floor - ceramic tile grout - kitchen S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111 *321909673-0111*	8803 Baker Ave (Int) - ceramic tile grout - kitchen N	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
112 *321909673-0112*	8803 Baker Ave (Int) - ceramic tile grout - kitchen center	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
113 *321909673-0113*	8803 Baker Ave (Int) - ceramic tile mortar - kitchen S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
114 *321909673-0114*	8803 Baker Ave (Int) - ceramic tile mortar - kitchen N	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
115 *321909673-0115*	8803 Baker Ave (Int) - ceramic tile mortar - kitchen center	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
116 *321909673-0116*	8803 Baker Ave (Int) - wall tile grout - bathroom	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
117 *321909673-0117*	8803 Baker Ave (Int) - wall tile grout - kitchen	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
118 *321909673-0118*	8803 Baker Ave (Int) - wall tile grout - kitchen	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
119 *321909673-0119*	8803 Baker Ave (Int) - wall tile mortar - bathroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
120 *321909673-0120*	8803 Baker Ave (Int) - wall tile mortar - kitchen	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
121 *321909673-0121*	8803 Baker Ave (Int) - wall tile mortar - kitchen	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
122-Finish Coat *321909673-0122* *No floor tile mortar present for analysis*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
122-Base Coat *321909673-0122A*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
122-Button Board *321909673-0122B*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	White/Pink Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
123-Finish Coat *321909673-0123* *No floor tile mortar present for analysis*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
123-Base Coat *321909673-0123A*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
123-Button Board *321909673-0123B*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Brown/Pink Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
124-Finish Coat *321909673-0124*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
124-Base Coat *321909673-0124A*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
124-Button Board *321909673-0124B*	8803 Baker Ave (Int) - ceramic floor tile mortar composite (2 layers) - bathroom	Brown/Pink Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
125 *321909673-0125*	8803 Baker Ave (Int) - button board - hallway	Brown/Pink Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected

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126 *321909673-0126*	8803 Baker Ave (Int) - button board - living room	Brown/Pink Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
127 *321909673-0127*	8803 Baker Ave (Int) - button board - bedroom #2	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
128 *321909673-0128*	8803 Baker Ave (Int) - 9"x9" tan floor tile - bedroom #1	Tan Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
129 *321909673-0129*	8803 Baker Ave (Int) - 9"x9" tan floor tile - bedroom #1	Tan Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
130 *321909673-0130*	8803 Baker Ave (Int) - 9"x9" tan floor tile - bedroom #1	Tan Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
131 *321909673-0131*	8803 Baker Ave Int - mastic assoc. w/ 128-130	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132 *321909673-0132*	8803 Baker Ave Int - mastic assoc. w/ 128-130	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
133 *321909673-0133*	8803 Baker Ave Int - mastic assoc. w/ 128-130	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
134 *321909673-0134*	8803 Baker Ave Int - 9"x9" green FT - bedroom #1	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
135 *321909673-0135*	8803 Baker Ave Int - 9"x9" green FT - bedroom #1	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
136 *321909673-0136*	8803 Baker Ave Int - 9"x9" green FT - bedroom #1	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
137 *321909673-0137*	8803 Baker Ave Int - mastic assoc. w/ 134-136	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
138 *321909673-0138*	8803 Baker Ave Int - mastic assoc. w/ 134-136	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
139 *321909673-0139*	8803 Baker Ave Int - mastic assoc. w/ 134-136	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
140 *321909673-0140*	8803 Baker Ave Ext - ext grout - S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
141 *321909673-0141*	8803 Baker Ave Roof - ext grout - E	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
142 *321909673-0142*	8803 Baker Ave Roof - ext grout - N	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
143 *321909673-0143*	8803 Baker Ave Ext - roofing core - SE	Brown/Black Fibrous Heterogeneous	10% Cellulose 15% Glass	75% Non-fibrous (Other)	None Detected
144 *321909673-0144*	8803 Baker Ave Ext - roofing core - center	Brown/Black Fibrous Heterogeneous	10% Cellulose 15% Glass	75% Non-fibrous (Other)	None Detected

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145 *321909673-0145*	8803 Baker Ave Ext - roofing core - NW	Brown/Black Fibrous Heterogeneous	25% Cellulose 15% Glass	60% Non-fibrous (Other)	None Detected
146 *321909673-0146*	8803 Baker Ave Ext - roofing penetration & seam mastic - E	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
147 *321909673-0147*	8803 Baker Ave Ext - roofing penetration & seam mastic - center	Black Non-Fibrous Homogeneous	10% Cellulose	82% Non-fibrous (Other)	8% Chrysotile
148 *321909673-0148*	8803 Baker Ave Ext - roofing penetration & seam mastic - W	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
149 *321909673-0149*	8803 Baker Ave Int - electrical wire coating - bathroom	Brown/Black Fibrous Homogeneous	30% Cellulose 15% Synthetic 5% Glass	50% Non-fibrous (Other)	None Detected
150 *321909673-0150*	8803 Baker Ave Int - electrical wire coating - hallway	Brown/Black Fibrous Homogeneous	30% Cellulose 15% Synthetic 5% Glass	50% Non-fibrous (Other)	None Detected
151 *321909673-0151*	8803 Baker Ave Int - electrical wire coating - kitchen	Brown/Black Fibrous Homogeneous	30% Cellulose 10% Synthetic 10% Glass	50% Non-fibrous (Other)	None Detected
152 *321909673-0152*	8803 Baker Ave Int - fire brick - West wall	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
153 *321909673-0153*	8803 Baker Ave Int - fire brick - West wall	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
154 *321909673-0154*	8803 Baker Ave Int - fire brick - West wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
155 *321909673-0155*	8830 Vineyard Roof - roof core - SW	Brown/White/Black Fibrous Heterogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
156 *321909673-0156*	8830 Vineyard Roof - roof core - center	Brown/White/Black Fibrous Heterogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
157 *321909673-0157*	8830 Vineyard Roof - roof core - NE	Brown/White/Black Non-Fibrous Heterogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
158 *321909673-0158*	8847 9th St. Roof - roof core	Gray/Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
159 *321909673-0159*	8847 9th St. Roof - roof core	Gray/Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
160 *321909673-0160*	8847 9th St. Roof - roof core	Gray/Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
161 *321909673-0161*	8847 9th St. Roof - penetration & seam mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
162 *321909673-0162*	8847 9th St. Roof - penetration & seam mastic	Black/Silver Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
163 *321909673-0163*	8847 9th St. Roof - penetration & seam mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
164 *321909673-0164*	8847 9th St. Roof - HVAC mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
165 *321909673-0165*	8847 9th St. Roof - HVAC mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
166 *321909673-0166*	8847 9th St. Roof - HVAC mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
167 *321909673-0167*	8855 Baker Roof - roofing core w/ gray paint (SW)	Black/Silver Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
168 *321909673-0168*	8855 Baker Roof - roofing core w/ gray paint - center	Black/Silver Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
169 *321909673-0169*	8855 Baker Roof - roofing core w/ gray paint	Black/Silver Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
170 *321909673-0170*	8855 Baker Roof - roof penetration seam mastic (SW)	Black/Silver Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
171 *321909673-0171*	8855 Baker Roof - roof penetration seam mastic	White/Black/Silver Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
172 *321909673-0172*	8855 Baker Roof - roof penetration seam mastic	Black/Silver Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
173 *321909673-0173*	8855 Baker Roof - HVAC mastic w/ gray paint	White/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174 *321909673-0174*	8855 Baker Roof - HVAC mastic w/ gray paint	White/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
175 *321909673-0175*	8855 Baker Roof - HVAC mastic w/ gray paint	White/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
176 *321909673-0176*	8855 Baker (Int) - joint compound - SW storage room 1	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
177 *321909673-0177*	8855 Baker (Int) - joint compound - between room 1 & 2	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
178 *321909673-0178*	8855 Baker (Int) - joint compound - between room 1 & 2	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
179 *321909673-0179*	8855 Baker (Int) - wallboard - SW storage room 1	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
180 *321909673-0180*	8855 Baker (Int) - wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
181 *321909673-0181*	8855 Baker Int - wallboard	Brown/Pink Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
182-Base Cove *321909673-0182*	8855 Baker Int - base cove w/ mastic - SW storage room 1	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
182-Mastic *321909673-0182A*	8855 Baker Int - base cove w/ mastic - SW storage room 1	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
183-Base Cove *321909673-0183*	8855 Baker Int - base cove w/ mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
183-Mastic *321909673-0183A*	8855 Baker Int - base cove w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
184-Base Cove *321909673-0184*	8855 Baker Int - base cove w/ mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
184-Mastic *321909673-0184A*	8855 Baker Int - base cove w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
185-Acrovyn *321909673-0185*	8855 Baker Int - "acrovyn" w/ mastic - warehouse RR women's	White Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
185-Mastic *321909673-0185A*	8855 Baker Int - "acrovyn" w/ mastic - warehouse RR women's	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
186-Acrovyn *321909673-0186*	8855 Baker Int - "acrovyn" w/ mastic - warehouse RR women's	White Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
186-Mastic *321909673-0186A*	8855 Baker Int - "acrovyn" w/ mastic - warehouse RR women's	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
187-Acrovyn *321909673-0187*	8855 Baker Int - "acrovyn" w/ mastic - warehouse RR men's	White Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
187-Mastic *321909673-0187A*	8855 Baker Int - "acrovyn" w/ mastic - warehouse RR men's	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
188 *321909673-0188*	8855 Baker Int - wallboard - warehouse RR women's	Pink Non-Fibrous Homogeneous	2% Glass	98% Non-fibrous (Other)	None Detected
189 *321909673-0189*	8855 Baker Int - wallboard - warehouse RR women's	Brown/Pink Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
190 *321909673-0190*	8855 Baker Int - wallboard - warehouse RR men's	Brown/White Fibrous Heterogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
191 *321909673-0191*	8855 Baker - Int - 1st floor - 12"x12" beige FT. - main area men's RR	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
192 *321909673-0192*	8855 Baker - Int - 1st floor - 12"x12" beige FT. - office #7 (under carpet)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
193 *321909673-0193*	8855 Baker - Int - Mezzanine - 12"x12" beige FT. - mezzanine men's RR	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
194-Mastic 1 *321909673-0194*	8855 Baker - Int - 1st floor - mastic (black w/ yellow) assoc. 191-193	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
194-Leveling Compound/Mastic 2 *321909673-0194A* *Unable to separate.*	8855 Baker - Int - 1st floor - mastic (black w/ yellow) assoc. 191-193	Gray/Black Non-Fibrous Heterogeneous		97% Non-fibrous (Other)	3% Chrysotile
195 *321909673-0195*	8855 Baker - Int - 1st floor - mastic (black w/ yellow) assoc. 191-193	Black Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (Other)	None Detected
196-Mastic-1 *321909673-0196*	8855 Baker - Int - Mezzanine - mastic (black w/ yellow) assoc. 191-193	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
196-Mastic-2 *321909673-0196A*	8855 Baker - Int - Mezzanine - mastic (black w/ yellow) assoc. 191-193	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
196-Leveling Compound *321909673-0196B*	8855 Baker - Int - Mezzanine - mastic (black w/ yellow) assoc. 191-193	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
197 *321909673-0197*	8855 Baker - Int - 1st floor - 12"x12" white FT - 1st floor office #7	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
198 *321909673-0198*	8855 Baker - Int - 1st floor - 12"x12" white FT - 1st floor office #7/#8	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199 *321909673-0199*	8855 Baker - Int - 1st floor - 12"x12" white FT - 1st floor office #8	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
200 *321909673-0200*	8855 Baker - Int - 1st floor - mastic (yellow) assoc. w/ 197-199	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
201 *321909673-0201*	8855 Baker - Int - 1st floor - mastic (yellow) assoc. w/ 197-199	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
202 *321909673-0202*	8855 Baker - Int - 1st floor - mastic (yellow) assoc. w/ 197-199	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
203 *321909673-0203*	8855 Baker - Int - Mezzanine - 12"x12" black FT. - mezzanine computer room	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
204 *321909673-0204*	8855 Baker - Int - Mezzanine - 12"x12" black FT. - mezzanine computer room	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
205 *321909673-0205*	8855 Baker - Int - Mezzanine - 12"x12" black FT. - mezzanine computer room	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
206 *321909673-0206*	8855 Baker - Int - Mezzanine - black mastic - mezzanine computer room	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
207 *321909673-0207*	8855 Baker - Int - Mezzanine - black mastic - mezzanine computer room	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
208 *321909673-0208*	8855 Baker - Int - Mezzanine - black mastic - mezzanine computer room	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
209-Leveling Compound *321909673-0209*	8855 Baker - Int - Mezzanine - leveling compound w/ mastic - mezzanine - men	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
209-Mastic *321909673-0209A*	8855 Baker - Int - Mezzanine - leveling compound w/ mastic - mezzanine - men	Black Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (Other)	None Detected
210-Floor Tile *321909673-0210*	8855 Baker - Int - Mezzanine - leveling compound w/ mastic - mezzanine - women	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
No leveling compound or black mastic present for analysis.					
211-Leveling Compound *321909673-0211*	8855 Baker - Int - Mezzanine - leveling compound w/ mastic - mezzanine - women	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
211-Floor Tile *321909673-0211A*	8855 Baker - Int - Mezzanine - leveling compound w/ mastic - mezzanine - women	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
211-Mastic *321909673-0211B*	8855 Baker - Int - Mezzanine - leveling compound w/ mastic - mezzanine - women	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
212-Joint Compound *321909673-0212*	8855 Baker - Int - 1st Floor - baseboard - main area, E	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
No baseboard present for analysis.					
213 *321909673-0213*	8855 Baker - Int - Mezzanine - baseboard - mezzanine computer rm	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
214 *321909673-0214*	8855 Baker - Int - Mezzanine - baseboard - mezzanine office #3	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
215-Mastic 1 *321909673-0215*	8855 Baker - Int - 1st Floor - baseboard mastic assoc. w/ 212-214	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
215-Mastic 2 *321909673-0215A*	8855 Baker - Int - 1st Floor - baseboard mastic assoc. w/ 212-214	Brown Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
216-Mastic 1 *321909673-0216*	8855 Baker - Int - Mezzanine - baseboard mastic assoc. w/ 212-214	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
216-Mastic 2 *321909673-0216A*	8855 Baker - Int - Mezzanine - baseboard mastic assoc. w/ 212-214	Brown Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
217-Mastic-1 *321909673-0217*	8855 Baker - Int - Mezzanine - baseboard mastic assoc. w/ 212-214	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
217-Mastic-2 *321909673-0217A*	8855 Baker - Int - Mezzanine - baseboard mastic assoc. w/ 212-214	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218 *321909673-0218*	8855 Baker - Int - 1st Floor - 2'x2' carpet tile mastic, main area E	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
219 *321909673-0219*	8855 Baker - Int - 1st Floor - 2'x2' carpet tile mastic, main area C	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
220 *321909673-0220*	8855 Baker - Int - 1st Floor - 2'x2' carpet tile mastic, main area W	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
221 *321909673-0221*	8855 Baker - Int - 1st Floor - carpet mastic (yellow/black) - 1st floor office #6	Black/Yellow Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
222 *321909673-0222*	8855 Baker - Int - 1st Floor - carpet mastic (yellow/black) - 1st floor conf	Black/Yellow Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
223 *321909673-0223*	8855 Baker - Int - 1st Floor - carpet mastic (yellow/black) - 1st floor office #9	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
224 *321909673-0224*	8855 Baker - Int - 1st Floor - carpet mastic - 1st office #1	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
225 *321909673-0225*	8855 Baker - Int - Mezzanine - carpet mastic - mezzanine office #2	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
226 *321909673-0226*	8855 Baker - Int - Mezzanine - carpet mastic - mezzanine main area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
227 *321909673-0227*	8855 Baker - Int - 1st Floor - wallboard - 1st - conf. E	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
228 *321909673-0228*	8855 Baker - Int - 1st Floor - wallboard - 1st - main area, S	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
229 *321909673-0229*	8855 Baker - Int - 1st Floor - wallboard - 1st - room 10, W	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
230 *321909673-0230*	8855 Baker - Int - Mezzanine - wallboard - mezzanine office #1	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
231 *321909673-0231*	8855 Baker - Int - Mezzanine - wallboard - mezzanine main area, W	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
232 *321909673-0232*	8855 Baker - Int - Mezzanine - wallboard - mezzanine office #6	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
233 *321909673-0233*	8855 Baker - Int - 1st Floor - joint compound - 1st - conf room, E	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
234 *321909673-0234*	8855 Baker - Int - 1st Floor - joint compound - 1st - main area, S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
235 *321909673-0235*	8855 Baker - Int - 1st Floor - joint compound - 1st - women's RR	White/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
236 *321909673-0236*	8855 Baker - Int - 1st Floor - joint compound - 1st - office #2	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
237 *321909673-0237*	8855 Baker - Int - 1st Floor - joint compound - 1st - room 10, W	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
238 *321909673-0238*	8855 Baker - Int - Mezzanine - joint compound - mezzanine main area S stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
239 *321909673-0239*	8855 Baker - Int - Mezzanine - joint compound - mezzanine main area women's RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
240 *321909673-0240*	8855 Baker - Int - Mezzanine - joint compound - mezzanine computer room	White/Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
241 *321909673-0241*	8855 Baker - Int - Mezzanine - joint compound - mezzanine office #1	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242 *321909673-0242*	8855 Baker - Int - Mezzanine - joint compound - mezzanine office #4	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
243 *321909673-0243*	8855 Baker - Int - 1st Floor - wall texture - 1st - main area, S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
244 *321909673-0244*	8855 Baker - Int - 1st Floor - wall texture - 1st - office #1, W	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
245 *321909673-0245*	8855 Baker - Int - 1st Floor - wall texture - 1st - women's RR	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
246 *321909673-0246*	8855 Baker - Int - Mezzanine - wall texture - mezzanine main area, N	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247 *321909673-0247*	8855 Baker - Int - Mezzanine - wall texture - mezzanine office #6	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
248 *321909673-0248*	8855 Baker - Int - 1st Floor - 2'x4' ceiling panel, fissured - 1st main area center	White/Beige Fibrous Homogeneous	40% Cellulose 5% Min. Wool	20% Perlite 35% Non-fibrous (Other)	None Detected
249 *321909673-0249*	8855 Baker - Int - 1st Floor - 2'x4' ceiling panel, fissured - 1st conf. rm	White/Beige Fibrous Homogeneous	40% Cellulose 5% Min. Wool	20% Perlite 35% Non-fibrous (Other)	None Detected
250 *321909673-0250*	8855 Baker - Int - Mezzanine - 2'x4' ceiling panel, fissured - mezzanine main area	White Fibrous Heterogeneous	50% Cellulose 10% Glass	20% Perlite 20% Non-fibrous (Other)	None Detected
251 *321909673-0251*	8847 9th - Int - 1st Floor - joint compound - entry area SW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
252 *321909673-0252*	8847 9th - Int - 1st Floor - joint compound - office cubicle area, N	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
253 *321909673-0253*	8847 9th - Int - 1st Floor - joint compound - security office, W	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
254 *321909673-0254*	8847 9th - Int - 1st Floor - joint compound - hallway, North	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
255 *321909673-0255*	8847 9th - Int - 1st Floor - joint compound - office cubicle area S.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
256 *321909673-0256*	Telecom Area - 1st Floor - mortar - telecom area, West	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
257 *321909673-0257*	Telecom Area - 1st Floor - mortar - telecom area, North	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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LA Testing Order: 321909673
Customer ID: 32ATCA45
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
258 *321909673-0258*	Telecom Area - 1st Floor - mortar - telecom area, South	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
259-Comp *321909673-0259*	8729 9th, Suite 100 - Roof - roofing core - N @ center	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
260-Comp *321909673-0260*	8729 9th, Suite 100 - Roof - roofing core - center	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
261 *321909673-0261*	8729 9th, Suite 100 - Roof - roofing core - S, center	Gray/Black Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
262-Comp *321909673-0262*	8729 9th, Suite 100 - Roof - parapet composite - S @ West	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
263 *321909673-0263*	8729 9th, Suite 100 - Roof - parapet composite - S @ East	Gray/Black Fibrous Heterogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
264 *321909673-0264*	8729 9th, Suite 100 - Roof - parapet composite - N @ West	Gray/Black Fibrous Heterogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
265 *321909673-0265*	8729 9th, Suite 100 - Roof - roofing mastic - NE corner	White/Black Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
266 *321909673-0266*	8729 9th, Suite 100 - Roof - roofing mastic - West @ center	White Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
267 *321909673-0267*	8729 9th, Suite 100 - Roof - roofing mastic - SW	White/Black Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
268 *321909673-0268*	8729 9th, Suite 100 - Roof - air duct mastic - West @ center	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
269 *321909673-0269*	8729 9th, Suite 100 - Roof - air duct mastic - West @ center	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
270 *321909673-0270*	8729 9th, Suite 100 - Roof - air duct mastic - West @ center	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
271 *321909673-0271*	8729 9th, 100 (Int) - 1st Floor - carpet mastic - 1st - office #6	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
272 *321909673-0272*	8729 9th, 100 (Int) - 1st-2nd Floor - carpet mastic - 1st - stairwell landing	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
273 *321909673-0273*	8729 9th, 100 (Int) - 2nd Floor - carpet mastic - 2nd office #3	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
274 *321909673-0274*	8729 9th, 100 (Int) - 1st Floor - wood floor slat mastic - entry area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
275 *321909673-0275*	8729 9th, 100 (Int) - 1st Floor - wood floor slat mastic - entry area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
276 *321909673-0276*	8729 9th, 100 (Int) - 1st Floor - wood floor slat mastic - entry area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
277 *321909673-0277*	8729 9th, 100 (Int) - 1st Floor - FT mortar - downstairs RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
278 *321909673-0278*	8729 9th, 100 (Int) - 2nd Floor - FT mortar - upstairs RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
279 *321909673-0279*	8729 9th, 100 (Int) - 1st Floor - WT mortar - downstairs RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
280 *321909673-0280*	8729 9th, 100 (Int) - 1st Floor - FT grout - upstairs RR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
281 *321909673-0281*	8729 9th, 100 (Int) - 2nd Floor - FT grout - upstairs RR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
282 *321909673-0282*	8729 9th, 100 (Int) - 1st Floor - WT grout - downstairs RR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
283 *321909673-0283*	8729 9th, 100 (Int) - 1st Floor - baseboard - 1st floor reception area	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
284 *321909673-0284*	8729 9th, 100 (Int) - 1st-2nd Floor - baseboard - stairwell landing	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
285 *321909673-0285*	8729 9th, 100 (Int) - 2nd Floor - baseboard - 2nd floor office #3, S	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
286 *321909673-0286*	8729 9th, 100 (Int) - 1st Floor - baseboard mastic assoc. w/ 283-285 - 1st floor reception area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
287 *321909673-0287*	8729 9th, 100 (Int) - 1st-2nd Floor - baseboard mastic assoc. w/ 283-285	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
288 *321909673-0288*	8729 9th, 100 (Int) - 1st Floor - baseboard mastic assoc. w/ 283-285	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
289 *321909673-0289*	8729 9th, 100 (Int) - 1st Floor - wallboard - 1st floor reception area	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
290 *321909673-0290*	8729 9th, 100 (Int) - 1st-2nd Floor - wallboard - stairwell	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
291 *321909673-0291*	8729 9th, 100 (Int) - 2nd Floor - wallboard - 2nd floor office #3	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
292 *321909673-0292*	8729 9th, 100 (Int) - 1st Floor - joint compound - 1st floor reception area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
293 *321909673-0293*	8729 9th, 100 (Int) - 1st Floor - joint compound - 1st floor office #3, S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
294 *321909673-0294*	8729 9th, 100 (Int) - 1st Floor - joint compound - 1st floor office #5	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
295 *321909673-0295*	8729 9th, 100 (Int) - 1st-2nd Floor - joint compound - stairwell landing	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
296 *321909673-0296*	8729 9th, 100 (Int) - 2nd Floor - joint compound - 2nd floor office #1, S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
297 *321909673-0297*	8729 9th, 100 (Int) - 2nd Floor - joint compound - 2nd floor hallway	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
298 *321909673-0298*	8729 9th, 100 (Int) - 2nd Floor - joint compound - 2nd floor office #4	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
299 *321909673-0299*	8729 9th, 100 (Int) - 1st Floor - wall texture - 1st floor reception area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
300 *321909673-0300*	8729 9th, 100 (Int) - 1st Floor - wall texture - 1st floor hallway, E	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
301 *321909673-0301*	8729 9th, 100 (Int) - 1st Floor - wall texture - 1st floor office #6	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
302 *321909673-0302*	8729 9th, 100 (Int) - 1st-2nd Floor - wall texture - stairwell landing	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
303 *321909673-0303*	8729 9th, 100 (Int) - 2nd Floor - wall texture - 2nd floor office #1, N	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
304 *321909673-0304*	8729 9th, 100 (Int) - 2nd Floor - wall texture - 2nd floor office #2	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
305 *321909673-0305*	8729 9th, 100 (Int) - 2nd Floor - wall texture - 2nd floor office #3	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
306 *321909673-0306*	8729 9th, 100 (Int) - 1st Floor - 2'x2' fissured ceiling panel - 1st floor hallway	Gray/White Fibrous Homogeneous	40% Cellulose 5% Min. Wool	20% Perlite 35% Non-fibrous (Other)	None Detected
307 *321909673-0307*	8729 9th, 100 (Int) - 1st-2nd Floor - 2'x2' fissured ceiling panel - stairwell landing	Gray/White Fibrous Homogeneous	40% Cellulose 5% Min. Wool	20% Perlite 35% Non-fibrous (Other)	None Detected
308 *321909673-0308*	8729 9th, 100 (Int) - 2nd Floor - 2'x2' fissured ceiling panel - 2nd floor office #4	Gray/White Fibrous Heterogeneous	50% Cellulose 20% Glass	15% Perlite 15% Non-fibrous (Other)	None Detected
309-Comp *321909673-0309*	8729 9th Suite 110 - Roof - roofing composite (shingles w/ felt) - S, center	Brown/Black Fibrous Heterogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
310-Comp *321909673-0310*	8729 9th Suite 110 - Roof - roofing composite (shingles w/ felt) - West, toward N	Brown/Black Fibrous Heterogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
311 *321909673-0311*	8729 9th Suite 110 - Roof - roofing composite (shingles w/ felt) - N @ center	Gray/Black Fibrous Heterogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
312 *321909673-0312*	8729 9th Suite 110 - Roof - roofing mastic - E @ center	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
313 *321909673-0313*	8729 9th Suite 110 - Roof - roofing mastic - SW @ base of air duct	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
314 *321909673-0314*	8729 9th Suite 110 - Roof - roofing mastic - center	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
315 *321909673-0315*	8729 9th Suite 110 - Roof - air duct mastic - SW	Gray Non-Fibrous Homogeneous	3% Synthetic	3% Mica 94% Non-fibrous (Other)	None Detected
316 *321909673-0316*	8729 9th Suite 110 - Roof - air duct mastic - SW	Gray Non-Fibrous Homogeneous	3% Synthetic	3% Mica 94% Non-fibrous (Other)	None Detected
317 *321909673-0317*	8729 9th Suite 110 - Roof - air duct mastic - SW	Gray Non-Fibrous Homogeneous	3% Synthetic	3% Mica 94% Non-fibrous (Other)	None Detected
318 *321909673-0318*	8729 9th Suite 110 (Int) - 1st Floor - carpet mastic - cubicle area NE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
319 *321909673-0319*	8729 9th Suite 110 (Int) - 1st Floor - carpet mastic - cubicle area center	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
320 *321909673-0320*	8729 9th Suite 110 (Int) - 1st Floor - carpet mastic - radio room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
321 *321909673-0321*	8729 9th Suite 110 (Int) - 1st Floor - FT mortar - women's RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
322 *321909673-0322*	8729 9th Suite 110 (Int) - 1st Floor - FT mortar - men's RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
323 *321909673-0323*	8729 9th Suite 110 (Int) - 1st Floor - WR mortar - men's RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
324 *321909673-0324*	8729 9th Suite 110 (Int) - 1st Floor - FT grout - women's RR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
325 *321909673-0325*	8729 9th Suite 110 (Int) - 1st Floor - FT grout - men's RR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
326 *321909673-0326*	8729 9th Suite 110 (Int) - 1st Floor - WT grout - men's RR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
327 *321909673-0327*	8729 9th Suite 110 (Int) - 1st Floor - baseboard - cubicle area @ W	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
328 *321909673-0328*	8729 9th Suite 110 (Int) - 1st Floor - baseboard - cubicle area @ door	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
329 *321909673-0329*	8729 9th Suite 110 (Int) - 1st Floor - baseboard - small office	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
330 *321909673-0330*	8729 9th Suite 110 (Int) - 1st Floor - baseboard mastic assoc. w/ 327-329	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
331 *321909673-0331*	8729 9th Suite 110 (Int) - 1st Floor - baseboard mastic assoc. w/ 327-329	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332 *321909673-0332*	8729 9th Suite 110 (Int) - 1st Floor - baseboard mastic assoc. w/ 327-329	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
333 *321909673-0333*	8729 9th Suite 110 (Int) - 1st Floor - wallboard - women's RR ceiling	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
334 *321909673-0334*	8729 9th Suite 110 (Int) - 1st Floor - wallboard - cubicle area N @ center	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
335 *321909673-0335*	8729 9th Suite 110 (Int) - 1st Floor - wallboard - small office	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
336 *321909673-0336*	8729 9th Suite 110 (Int) - 1st Floor - joint compound - cubicle area @ entry	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
337 *321909673-0337*	8729 9th Suite 110 (Int) - 1st Floor - joint compound - outside men's RR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
338 *321909673-0338*	8729 9th Suite 110 (Int) - 1st Floor - joint compound - cubicle area @ center, column	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
339 *321909673-0339*	8729 9th Suite 110 (Int) - 1st Floor - joint compound - cubicle area West wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
340 *321909673-0340*	8729 9th Suite 110 (Int) - 1st Floor - joint compound - small office, E	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
341 *321909673-0341*	8729 9th Suite 110 (Int) - 1st Floor - wall texture - same as joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
342 *321909673-0342*	8729 9th Suite 110 (Int) - 1st Floor - wall texture - same as joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
343 *321909673-0343*	8729 9th Suite 110 (Int) - 1st Floor - wall texture - same as joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
344 *321909673-0344*	8729 9th Suite 110 (Int) - 1st Floor - wall texture - same as joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
345 *321909673-0345*	8729 9th Suite 110 (Int) - 1st Floor - wall texture - same as joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
346 *321909673-0346*	8729 9th Suite 110 (Int) - 1st Floor - 2'x2' fissured ceiling panel - cubicle area NE	Gray/White Fibrous Homogeneous	40% Cellulose	20% Perlite 40% Non-fibrous (Other)	None Detected
347 *321909673-0347*	8729 9th Suite 110 (Int) - 1st Floor - 2'x2' fissured ceiling panel - @ center	Gray/White Fibrous Homogeneous	40% Cellulose	20% Perlite 40% Non-fibrous (Other)	None Detected
348 *321909673-0348*	8729 9th Suite 110 (Int) - 1st Floor - 2'x2' fissured ceiling panel - small office	Gray/White Fibrous Heterogeneous	60% Cellulose	20% Perlite 20% Non-fibrous (Other)	None Detected
349-Finish Coat *321909673-0349*	8729 9th Suite 110 - Ext - stucco (ext) - N @ center	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
349-Base Coat *321909673-0349A*	8729 9th Suite 110 - Ext - stucco (ext) - N @ center	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
350-Finish Coat *321909673-0350*	8729 9th Suite 110 - Ext - stucco (ext) - NE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
350-Base Coat *321909673-0350A*	8729 9th Suite 110 - Ext - stucco (ext) - NE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
351-Finish Coat *321909673-0351*	8729 9th Suite 110 - Ext - stucco - SE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
351-Base Coat *321909673-0351A*	8729 9th Suite 110 - Ext - stucco - SE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
352-Finish Coat *321909673-0352*	8729 9th Suite 110 - Ext - stucco - SW	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
352-Base Coat *321909673-0352A*	8729 9th Suite 110 - Ext - stucco - SW	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
353 *321909673-0353*	8729 9th Suite 110 - Ext - stucco - W	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Humberto Espinoza (132)
Julie Vong (124)
Rosa Mendoza (126)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*: #321909673

Company: ATC Group Services LLC	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 25 Cupania Circle	
City: Monterey Park **State/Province:** CA	**Zip/Postal Code:** 91755 **Country:** US
Report To (Name): Elaine Horng	**Telephone #:** 323-517-9780
Email Address: elaine.horng@atcgs.com	**Fax #:** **Purchase Order:**
Project Name/Number: NPPAN19013 /Rancho Cucamonga	**Please Provide Results:** ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken: CA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PLM - Bulk (reporting limit)	TEM – Bulk
■ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:**

Samplers Name: Roberto de la Torre **Samplers Signature:** [signature]

Sample #	HA #	Sample Location	Material Description
001-353		See Bulk Sample Logs	See Bulk Sample Logs.

Client Sample # (s): 001 - 353 **Total # of Samples:** 353

Relinquished (Client): [signature] **Date:** 4.19.19 **Time:**

Received (Lab): Omakissack (PU) **Date:** 4/19/19 **Time:** 1425

Comments/Special Instructions:

BillTo: ATC Group Services LLC, 25 Cupania Circle, Monterey Park, CA, 91755, United States
Attention: Stephen Drengson Phone: 323-517-9780 Email: stephen.drengson@atcgs.com; include elaine.horng@atcgs.com in email for lab results.

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 1 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Horns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
01	8830 VINEYARD AVE BLDG B - INTERIOR		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
001	1st	01		32	12"X12" BEIGE FLOOR TILE (CONF PM) (OFF #7)	2400	SF					
002												
003					(OFF #4)							
004				33	F.T MASTIC - YELLOW (ASSOC W/ 001-003)	2400	SF					
005												
006												
007				34	GREEN MOSAIC PATTERN S.F W/ BACKING (N) @ ENTRANCE (CENTER AREA)	730	SF					
008												
009					(WEST WOMEN RR)							
010					((E) @ EXIT)							
				35	S.F MASTIC - YELLOW (ASSOC W/ 007-009)	730	SF					

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC

25 CUPANIA CIRCLE
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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 2 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Harris

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
01	8830 Vineyard Building B		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY																		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER	
011	1st	01																											
012																													
013				36	BASE BOARD (N @ ENTRANCE)	3	6	0	LF																				
014					(CENTER AREA, NEAR WOMEN RR)																								
015					(COPY RM)																								
016				37	BASE BOARD MASTIC (ASSOC W/ 013-016)	3	6	0	LF																				
017																													
018																													
019				21	WALLBOARD (CONT RM)	2	5	0	0	SF																			
020					(NEAR EAST EXIT)																								

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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25 CUPANIA CIRCLE
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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 3 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hoang

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
01	8830 Vineyard Building B (Int)		
02	EXT		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY		PERCENTAGES: CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
021	1ST	01			(OFFICE #7)							
022				55	WALLPAPER (CONF. ROOM)	2500	SF					
023					(COPY RM)		R022					
024					(RECEPTIONIST)		↓					
025				27	(CONF RM) 2'X4' FISSURED CEILING PANEL	2300	SF					
026					(OFF #2)		R035					
027					(NEAR EAST EXIT)		↓					
028				62	FLOOR LEVELING COMPOUND	1	SF					
029	GROUND	02		59	EXTERIOR STUCCO	2000	SF					
030							R029					

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
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31 FLOOR TILE (9"X9")
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34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 4 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre
Elaine Horns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
02	8830 VINEYARD BLDG B EXTERIOR		
03	— ROOF		
04	8830 VINEYARD WAREHOUSE		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
031	GROUND	02				
032						
033						
034	ROOF	03		48	Roof mastic Penetration & seam	75 SF
035						
036						
037				48	HVAC Roof Mastic HVAC S	25 LF
038					HVAC S	
039					HVAC N	
040	1st Floor	04		34	(OUT BLDG) GRAY MOSAIC PATT S.F W/ BACKING (FILE RM)	350 SF

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
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30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 5 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
02	8830 Vineyard Building B (EXT)		
03	↓	Roof	
04	8830 VINEYARD AVE WAREHOUSE		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY						PERCENTAGES: CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER	
041	1st Floor	04			(BREAK Pan)												
042																	
043				35	S.F MASTIC - YELLOW (ASSOC W/ 040-042)		3	5	0	SF							
044																	
045																	
046				21	WALLBOARD (FILE Pan)		1	5	0	0	SF						
047					(BREAK Pan)												
048					(CONTROL Pan)												
049				62	WALL TEXTURE MATERIAL (FILE Pan)		5	0	0	SF							
050					(CONTROL Pan)												

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 6 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA		AREA NAME/DESCRIPTION	AREA		AREA NAME/DESCRIPTION
			0	5	8830 VINEYARD AVE - EXT EXTOR
0	4	8830 VINEYARD WAREHOUSE			

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
051	1ST	04			(CONTROL Rm)							
052				22	JOINT COMPOUND (N/W) (OUTSIDE CONTROL Rm)	250	SF					
053					(E)							
054					(RR)							
055				27	2'x4' FISSURED CEILING PANEL (BREAK Rm)	240	SF					
056												
057					(CONTROL Rm)							
058		05		62	WINDOW PUTTY (W)	130	LF					
059					(S)							
060					(E)							

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9780
(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 7 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA		AREA NAME/DESCRIPTION	AREA		AREA NAME/DESCRIPTION
			0	6	~~8830 Vineyard Ave~~ Roof
			0	7	8847 9th St - Int.
0	4	~~8830 Vineyard Ave~~ - Warehouse			

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
061	Roof	06		47	Roofing Felt	400	SF					
062	↓	↓		↓	↓	↓						
063	↓	↓		↓	↓	↓						
064	1st	04		62	Wall Barrier Paper Break Room	250	SF					
065	↓	↓		↓	↓	↓						
066	↓	↓		↓	↓	↓						
067	Roof	06		48	Roofing Mastic (cut) Out Building	40	SF					
068	↓	↓		↓	↓	↓						
069	↓	↓		↓	↓	↓						
070	1st	07		32	12"x12" Brown Stone patterned FT RF#2	55	SF					

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
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33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 8 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
07	8847 9th St-int		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY					
071	1st	07		32	RR#2						
072											
073				33	Mastic assoc w/ 70-72	55	SF				
074					RR#2						
075											
076				32	12"x12" Blue FT entry area	140	SF				
077					Hallway						
078					RR#1						
079				33	Mastic assoc. w/ 76-78	140	SF				
080											

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
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09 PUMP HOUSING INSULATION
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11 GASKETRY
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57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 9 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hoang

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
07	8547 9th int		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
081	1st	07		33		
082				32	12"x12" Gray FT patch entry area	50 SF
083						
084						
085				33	mastic assoc. w/ 82/84	50 SF
086						
087						
088				36	Baseboard security office	200 LF
089					restroom #1	
090					office cubicle area	

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
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04 BREECHING LAGGING
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06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
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59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 10 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hawns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
07	8847 9th St, Int		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY																							
091	1st	07		37	Baseboard mastic assoc. w/ 88-90				200	LF																			
092																													
093																													
094				61	carpet mastic office cubicle area																								
095																													
096					security office																								
097				62	Wall Texture Hallway				1600	SF																			
098					security office																								
099					office cubicle area, N																								
100					↓ , S																								

PERCENTAGES: CHRYSOTILE; AMOSITE; CROCIDOLITE; Q.C.; OTHER

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
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06 CHILLER LAGGING
07 STORAGE TANK INSUL
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59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

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OrderID: 321909673

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BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 11 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Horns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
08	8803 Baker Ave (Int)		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
101	1st	07		62	Wall Texture entry area N/W						
102				21	Wall Board entry area	2500 SF					
103					office cubicle area						
104					RR #2						
105	1st	08		20	Plaster ~~Kitchen~~	350 SF					
106					~~Hallway~~						
107					~~Living Room~~						
108					~~Bathroom Ceiling~~						
109					~~Bedroom #3~~						
110				52	Ceramic Tile Grout ~~Kitchen~~ S	150 SF					

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
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13 TRANSITE PIPE
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15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
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53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE) Wall Texture

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

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BULK SAMPLE LOG

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ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 12 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hornes

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
08	8803 Baker (int)		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY						CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
111		08			N											
112					Center											
113				52	Ceramic Tile Mortar Kitchen S			150	SF							
114					N											
115					Center											
116				52	Wall Tile Grout Bathroom			225	SF							
117					Kitchen											
118					Kitchen											
119				52	Wall Tile Mortar Bathroom			225	SF							
120					Kitchen											

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 13 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre
Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
08	8803 Baker (int)		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
121		08			Kitchen	
122				52	Ceramic Floor Tile Mortar Composite (2 layers) Bathroom	45 SF
123						
124						
125				21	Button Board Hallway	3500 SF
126					Living Room	
127					Bedroom #2	
128				31	9"x9" Tan Floor Tile Bedroom #1	33 SF
129						
130						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
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21 WALLBOARD
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23 PAINT/COATING
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32 FLOOR TILE (12"X12")
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34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
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48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
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52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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LAB DIRECTOR'S SIGNITURE/DATE

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BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 14 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Harris

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
08	8803 Baker Int		
09	↓ Ext		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY											
131		08		32	Mastic assoc. w/ 128-130				33	SF							
132																	
133																	
134				31	9"x9" Green FT Bedroom #1				33	SF							
135																	
136																	
137				33	Mastic assoc. w/ 134-136				33	SF							
138																	
139																	
140		09		52	Ext Grout S			9	50	SF							

MATERIAL CODES (SEE BELOW)

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
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60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

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LAB DIRECTOR'S SIGNITURE/DATE

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#321909673

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 15 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
09	8803 Baker Roof		
10	↓ Ext.		
08	↓ Int.		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY					
141		09			E						
142		09			N						
143		10		43	Roofing Core SE	900	SF				
144					Center						
145					NW						
146				48	Roofing ~~Penetration & Seam~~ Mastic E	50	SF				
147					Center						
148					W						
149		08			~~Electrical Wire Coating~~ Bath Room	500	LF				
150					Hallway						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
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37 BASEBOARD MASTIC
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39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
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45 ROOFING SHINGLE
46 ROOFING FLASHING
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49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 16 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
08	8803 Baker int		
03	8830 Vineyard Roof		
07	8847 9th St Roof		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION		ESTIMATED QUANTITY		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
151		08				Kitchen							
152					Fire Brazier	West Wall		30 SF					
153						LV							
154													
155		03		43	Roof Cove	SW		2400 SF					
156						Center							
157						NE							
158		11		43	Roof Cove								
159													
160													

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
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34 RESILIENT SHEET FLOORING
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57 WOOD FLOOR MASTIC
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59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

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BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 17 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
11	8847 9th St Roof		
12	885T Bakery Roof		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY																							
161		11		48	Penetration & Seam Mastic				50	SF																			
162																													
163																													
164				48	HVAC Mastic				10	LF																			
165																													
166																													
167		12		43	Roofing core w/ Gray Paint (SW)		66	000		SF																			
168					Center																								
169																													
170				48	Roof Penetration Seam Mastic (SW)		1	000		SF																			

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

PERCENTAGES: CHRYSOTILE; AMOSITE; CROCIDOLITE; Q.C.; OTHER

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

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PAGE 18 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre
Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8855 Baker (Int)		
12	8855 Roof.		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES
CHRYSOTILE
AMOSITE
CROCIDOLITE
OTHER
Q.C.

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
171		12				
172						
173					HVAC Mastic w/ Gray Paint	25 LF
174						
175						
176		13			Joint Compound SW Storage Room 1	1600 SF
177					Between Room 1 & 2	
178						
179					Wall Board SW storage Room 1	1600 SF
180						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
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(323) 517-9780
(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave ~~Rancho Cucamonga~~

PAGE 19 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8855 Baker Int		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	PERCENTAGES: CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
181		13									
182					Base coat w/ Mastic SW Storage Room	160 LF					
183											
184											
185					"Acrovyn" w/ Mastic Warehouse RR Women's	700 SF					
186											
187					Men's						
188					Wallboard Women's	1200 SF					
189											
190					Men's						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
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34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
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41 DUCT INSULATION LAGGING
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57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

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BULK SAMPLE LOG

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ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 20 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8855 Baker-Int		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
191	1st	13		32	12"x12" Beige FT. Main Area Men's RR.	2550 SF					
192	1st				office #7 (under carpet)						
193	Mezzanine				Mezzanine Men's RR.						
194	1st			33	Mastic (Black w/ yellow) assoc. 191-193						
195	1st										
196	Mezzanine										
197	1st			32	12"x12" white FT 1st Floor office #7	180 SF					
198	1st				office #7 & 8.						
199	1st				office #8						
200	↓			33	mastic (yellow) assoc. w/ 197-199	180 SF					

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
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05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
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25 ACOUSTIC PANEL
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59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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LAB DIRECTOR'S SIGNITURE/DATE

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#321909673

BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 21 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8855 Baker int		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	PERCENTAGES: CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
201	1st	13		33							
202											
203	Mezzanine	13		32	12"x12" Black FT - computer Room Mezzanine	100 SF					
204											
205											
206				33	Black Mastic	100 SF					
207											
208											
209				63	Leveling Compound Mezzanine Men	180 SF					
210					Women						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
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03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
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07 STORAGE TANK INSUL
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55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)
63 – Leveling Compound.

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 22 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8800 Baker Int		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY											
211	Mezzanine	13			Wall												
212	1st			36	Baseboard. Main Area, E	1000	LF										
213	Mezzanine				Mezzanine Computer Rm												
214					Mezzanine office #3												
215	1st			37	Baseboard mastic. assoc. w/ 212-214	1000	LF										
216	Mezzanine																
217																	
218	1st			61	2'x2' Carpet Tile Mastic, Main Area E	1000	SF										
219					C												
220					W												

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
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61 CARPET MASTIC
62 OTHER (DESCRIBE)

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LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

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BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 23 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre
Elaine Horns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8855 Baker Int		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, Q.C.

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
221	1st Floor	13		61	Carpet Mastic 1st Floor office #6	1400 SF
222	↓	↓		↓	(yellow/black) CONF	↓
223	↓	↓		↓	office #9	↓
224	1st	↓		61	Carpet Mastic 1st Office #1	1800 SF
225	Mezzanine	↓		↓	Mezzanine office #2	↓
226	↓	↓		↓	Mezzanine Main Area	↓
227	1st	↓		21	Wallboard 1st CONF, E	2500 SF
228	↓	↓		↓	Main Area, S	↓
229	↓	↓		↓	Room 10, W	↓
230	Mezzanine	↓		21	Wallboard Mezzanine office #1	2500 SF

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

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PAGE 24 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
13	8875 Baker Ind		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY					
231	Mezzanine	13		21	Wallboard Mezzanine Main Area, W						
232					office #6						
233	1st			22	Join Compound 1st CONF ROOM, E	2500 SF					
234					Main Area, S						
235					Women's RR						
236					office #2						
237					Room 10, W						
238	Mezzanine			22	Joint Compound, Mezzanine Main Area S, Stairwell	2500 SF					
239					Women's RR						
240					Computer Room						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9780
(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave ~~Rancho Cucamonga~~

PAGE 28 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA		AREA NAME/DESCRIPTION	AREA		AREA NAME/DESCRIPTION
1	3	8855 Baker int			

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, Q.C.

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY											
241	Mezzanine	13		22	Mezzanine office #1												
242	↓			/	office #4												
243	1st			62	wall Texture 1st Main Area, S		4	0	0	0	SF						
244	↓				office #1, W												
245	↓				Women's RR												
246	Mezzanine				Mezzanine Main Area, N												
247	↓				office #6												
248	1st			27	2'x4' Ceiling Panel, Textured 1st Main Area center		3	6	0	0	SF						
249	1st				1st corr. RM.												
250	Mezzanine				Mezzanine Main Area												

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
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35 SHEET FLOORING MASTIC
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37 BASEBOARD MASTIC
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39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE) 62 - Wall Texture

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

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#321909673

BULK SAMPLE LOG

ATC

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PROJECT: _____

ADDRESS: 9th St & Vineyard Ave Rancho Cucamonga

PAGE 26 OF 36

PROJ. NO.: N P P A N 1 9 0 1 3

PHASE NO.: 0 0 0 0 1

DATE: 0 4 1 5 1 9 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
07	8847 9th - Int.	17	8729 9th, Suite 100 - Roof
14	Telecom Area.	18	8729 9th. Suite 110 - Int
15	8729 9th, Suite 100	19	- ext
16	8729 9th Suite 100-ext	20	- Roof

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	FRIABILITY	CONDITION	AIR EROSION	CONTACT	VIBRATION	WATER	CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
251	1st	07		22	Joint Compound entry area SW	2500 SF											
252					office cubicle area, N												
253					secondoffice, W.												
254					Hallway, North												
255					office cubicle area S.												
256		14		52	Mortar Telecom Area, West	500 SF											
257					North												
258					South												
259		17		43	Roofing Core N. Center	1400 SF											
260					center												

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
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54 POWER LEAD INSULATION
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56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC

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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 27 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
15	8729 9th, Suite 100		
17	-ROOF		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION		ESTIMATED QUANTITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
261		17				S. Center						
262				43	Parapet composite	S @ West	150 SF					
263						S. @ East						
264						N @ West						
265				48	Roofing mastic	NE corner	75 SF					
266						West @ center						
267						SW						
268				48	Air Duct Mastic	West @ Center	15 LF					
269												
270												

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

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02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
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53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 28 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
15	8729 9th, 100 (int)		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	PERCENTAGES: CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
271	1st	15		61	Carpet Mastic 1st office #6	2500 SF					
272	1st-2nd				Stairwell landing						
273	2nd				2nd office #3						
274	1st				WOOD FLOOR SLAT Mastic ENTRY AREA	215 SF					
275											
276											
277	1st			52	FT Mortar DOWNSTAIRS RR	300 SF					
278	2nd				FT Mortar UPSTAIRS RR						
279	1st				WT Mortar DOWNSTAIRS RR						
280	1st			52	FT Grout UPSTAIRS RR	300 SF					

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
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58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

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BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 29 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
15	8729 9th, 100 (int)		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION		ESTIMATED QUANTITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
281	2nd	15			FT Grout	UPSTAIRS RR						
282	1st				WT Grout	DOWNSTAIRS RR						
283	1st			36	Baseboard	1st Floor reception Area	450 LF					
284	1st-2nd					Stairwell Landing						
285	2nd					2nd Floor Office H3,5						
286	1st			37	Baseboard Mastic	1st Floor reception area	450 LF					
287	1st, 2nd					Garage w/ 283-285						
288	1st.											
289	1st.			21	WALLBOARD	1st Floor Reception Area	6500 SF					
290	~~2nd~~ 1st-2nd					Stairwell						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

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LAB DIRECTOR'S SIGNITURE/DATE

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PROJECT

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PAGE 30 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hoang

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
15	8729 9th, 100, (int)		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
291	2nd	15			~~2nd Floor office #3~~						
292	1st			22	Joint Compound 1st Floor reception area	6500 SF					
293	1st				1st Floor office #3,5						
294	1st				1st Floor office #5						
295	1st-2nd				Stairwell Landing						
296	2nd				2nd Floor office #1,5						
297	2nd				2nd Floor Hallway						
298	2nd				2nd Floor office #4						
299	1st	15			Wall Texture 1st Floor Reception Area	6500 SF					
300	1st				1st Floor Hallway, E						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC

25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
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(323) 517-9780
(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 31 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre
Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
15			
20	8729 9th Suite 110 ROOF		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, Q.C.

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION		ESTIMATED QUANTITY
301	1st	15			Wall Texture	1st Floor office #6	
302	1st-2nd					stairwell landing	
303	2nd					2nd Floor office #1, N	
304	2nd					2nd Floor office #2	
305	2nd					2nd Floor office #3	
306	1st	15			2'x2' Fissured ceiling Panel	1st Floor Hallway	2500 SF
307	1st-2nd					stairwell landing	
308	2nd					2nd Floor office #4	
309	ROOF	20		43	Roofing Composite (Shingles w/ felt)	S. Center	2000 SF
310	ROOF					West, rear N	

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9781

PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 32 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre
Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
20	8729 9th, Suite 110 ROOF		
18	(int)		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES
CHRYSOTILE
AMOSITE
CROCIDOLITE
OTHER
Q.C.

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY
311	ROOF	20			N @ Center	
312				48	Roofing mastic E @ center	50 SF
313					SW @ base of air duct.	
314					Center	
315				48	air duct mastic SW	50 LF
316						
317						
318	1st	18		61	Carpet Mastic cubicle area NE	1900 SF
319					cubicle area center	
320					RADIO Room	

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
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34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
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45 ROOFING SHINGLE
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49 THERMAL INSULATION
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52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

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#321909673

BULK SAMPLE LOG

ATC

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(323) 517-9781

PROJECT:

ADDRESS: 9th St & Vineyard Ave Rancho Cucamonga

PAGE 33 OF 36

PROJ. NO.: NPPAN19013

PHASE NO.: 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hokns

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
18	8729 9th, Suite 110 (Int)		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY					
321	1st	18		52	FT Mortar WOMENS RR						
322					FT Mortar MEN'S RR						
323					WT Mortar MEN'S RR						
324				52	FT Grout WOMENS RR						
325					FT Grout MEN'S RR						
326					WT Grout MENS RR.						
327				36	Baseboard cubicle area @W						
328					cubicle area @door.						
329					small office						
330				37	Base board mastic assoc. 327-329.						

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
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17 PIPE RUN LAGGING
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35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 34 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hung

AREA		AREA NAME/DESCRIPTION	AREA		AREA NAME/DESCRIPTION
1	8	8729 9th, Suite 110 (int)			

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION		ESTIMATED QUANTITY		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
331	1st	18											
332													
333				21	Wallboard	women's RR ceiling	1200	SF					
334						cubicle area N @ center							
335						small office							
336				22	Joint Compound	cubicle area ceiling	1200	SF					
337						outlines Men's RR							
338						cubicle area @ center, column							
339						cubicle area West wall							
340						small office E							

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
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30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
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33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
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44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE) 62 - Wall Texture

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ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

#321909673

BULK SAMPLE LOG

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25 CUPANIA CIRCLE
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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 35 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hung

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
18	8729 9th, Suite 110 int		
19	- ext.		

UNIT CODES: LF LINEAR FEET; SF SQUARE FEET; EA EACH

POS/NEG. CODES: P POSITIVE; ND NON DETECT; T TRACE (< 1%); N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, Q.C., OTHER

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY		CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
341	1st	18		62	~~Wall Texture~~ same as joint compound	1200	SF					
342												
343												
344												
345												
346				26	2'x2' ~~Fiberglass ceiling panel~~ cubicle area NE							
347					center							
348					small office							
349		19		59	Stucco (Ext) N @ center	2500	SF					
350					NE							

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY; 2 MECHANICAL; 3 STORAGE; 4 OCCASIONAL; 5 CONTINUOUS

FRIABILITY: 1 NON-FRIABLE

CONDITION CODES: 1 GOOD; 2 DAMAGED; 3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES: 1 LOW; 2 MODERATE; 3 HIGH

CONTACT CODES: 1 LOW; 2 MODERATE; 3 HIGH

VIBRATION CODES: 1 LOW; 2 MODERATE; 3 HIGH

WATER CODES: 1 LOW; 2 MODERATE; 3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
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31 FLOOR TILE (9"X9")
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57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE) Wall texture

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PROJECT

ADDRESS 9th St & Vineyard Ave Rancho Cucamonga

PAGE 36 OF 36

PROJ. NO. NPPAN19013

PHASE NO. 00001

DATE: 041519 -041919

CLIENT: Panattoni

PROJECT: 6 Buildings

EVALTR: Roberto de la Torre, Elaine Hung

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION
19	8729 9th - ext		

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

POS/NEG. CODES
P POSITIVE
ND NON DETECT
T TRACE (< 1%)
N* NEGATIVE BY POINT COUNT (< 0.1%)

PERCENTAGES

SAMPLE #	BLDG./FLOOR	AREA	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	Q.C.	OTHER
351	1	19		59	Stucco SE						
352					SW						
353					W						
4											
5											
6											
7											
8											
9											
0											

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

FRIABILITY
1 NON-FRIABLE

CONDITION CODES
1 GOOD
2 DAMAGED
3 SIGNIFICANTLY DAMAGED

AIR EROSION CODES
1 LOW
2 MODERATE
3 HIGH

CONTACT CODES
1 LOW
2 MODERATE
3 HIGH

VIBRATION CODES
1 LOW
2 MODERATE
3 HIGH

WATER CODES
1 LOW
2 MODERATE
3 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK INSUL
08 STORAGE TANK LAGGING
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FUEL INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN LAGGING
18 PLASTER BROWN/SCRATCH
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 ACOUSTIC SPRAY-ON MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2'X2')
27 ACOUSTIC PANEL (2'X4')
28 ACOUSTIC TILE (12'X12')
29 ACOUSTIC TILE (1'X2')
30 ACOUSTIC TILE MASTIC
31 FLOOR TILE (9"X9")
32 FLOOR TILE (12"X12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 FIREPROOFING - SPRAY-ON
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT SEAM TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOFING FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALL PAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 321909673

APPENDIX D

Lead Laboratory Analytical Report, Sample Logs, XRF Logs, and DPH FORM 8552

LA Testing
5431 Industrial Drive, Huntington Beach, CA 92649
Phone/Fax: (714) 828-4999 / (714) 828-4944
http://www.LATesting.com gardengrovelab@latesting.com

LA Testing Order: 331908337
CustomerID: 32ATCA45
CustomerPO:
ProjectID:

Attn: **Elaine Horng**
ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755

Phone: (323) 517-9780
Fax: (323) 517-9781
Received: 04/22/19 10:45 AM
Collected: 4/15/2019

Project: **NPPAN19013/Rancho Cucamonga**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample	*Description*	*Collected*	*Analyzed*	*Weight*	*RDL*	*Lead* **Concentration**
P01 *331908337-0001*	Site: 8830 Vineyard Ave, Building B	4/15/2019	4/24/2019	0.259 g	80 ppm	<80 ppm
P02 *331908337-0002*	Site: Exterior	4/15/2019	4/24/2019	0.25 g	80 ppm	<80 ppm
P03 *331908337-0003*	Site: 8830 Vineyard Ave, Out Building	4/15/2019	4/24/2019	0.268 g	80 ppm	<80 ppm
P04 *331908337-0004*	Site: Ext.	4/15/2019	4/24/2019	0.308 g	80 ppm	<80 ppm
P05 *331908337-0005*	Site: 8830 Vineyard Warehouse	4/15/2019	4/24/2019	0.258 g	80 ppm	<80 ppm
P06 *331908337-0006*	Site: 8830 Baker	4/15/2019	4/24/2019	0.277 g	80 ppm	450 ppm
P07 *331908337-0007*	Site: 8855 Baker ext	4/15/2019	4/24/2019	0.258 g	80 ppm	280 ppm
P08 *331908337-0008*	Site: 8855 Int.	4/15/2019	4/24/2019	0.303 g	80 ppm	<80 ppm
P09 *331908337-0009*	Site: 8847 9th	4/15/2019	4/24/2019	0.268 g	80 ppm	<80 ppm
P10 *331908337-0010*	Site: 8729 9th	4/15/2019	4/24/2019	0.231 g	87 ppm	150 ppm
P11 *331908337-0011*	Site: 8729 9th (Int)	4/15/2019	4/24/2019	0.258 g	80 ppm	<80 ppm

Michael Chapman

Michael Chapman, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--ELLAP Accredited #101650, CA ELAP 1406

Initial report from 04/24/2019 16:07:05

LATesting
5431 Industrial Drive

Huntington Beach, CA 92649
PHONE: (714) 828-4999
FAX: (714) 828-4944

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*:

#331908337

Company : ATC Group Services LLC		**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments**	
Street: 25 Cupania Circle		*Third Party Billing requires written authorization from third party*	
City: Monterey Park	**State/Province:** CA	**Zip/Postal Code:** 91755	**Country:** US
Report To (Name): Elaine Horng		**Telephone #:** 323-517-9780	
Email Address: elaine.horng@atcgs.com		**Fax #:**	**Purchase Order:**
Project Name/Number: NPPAN19013 /Rancho Cucamonga		**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail	
U.S. State Samples Taken: CA		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☒ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☒ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☒
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: ROBERTO DELATORRE **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
P01 - P11			4-15 - 4-18-19

Client Sample #'s P01 - P11 **Total # of Samples:** 11

Relinquished (Client):		**Date:**	4.19.19	**Time:**	
Received (Lab):	Amalissa Orr	**Date:**	4/19/19	**Time:**	1425

Comments: SR (PU) 4-22-19 @10:45 (PU)

BillTo: ATC Group Services LLC, 25 Cupania Circle, Monterey Park, CA, 91755, United States
Attention: Stephen Drengson Phone: 323-517-9780 Email: stephen.drengson@atcgs.com; include elaine.horng@atcgs.com in email for lab results.

#331908337

PAGE 1 OF 2

LEAD BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
www.atcgroupservices.com
(323) 517-9780
(323) 517-9781

PROJECT NO. NPPAN19013

PHASE NO. 00001

PROJECT: 6 Buildings

SURVEYOR(S): Robert de la Torre / Elaine Moreno

DATE: 041519 -041919

AREA		AREA NAME/DESCRIPTION	AREA		AREA NAME/DESCRIPTION

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

P - POSITIVE
N - NEGATIVE

SAMPLE #	BLDG./FLOOR	AREA USAG	COM'T CODE	MATERIAL DESCRIPTION / COLOR		ESTIMATED QUANTITY	PERCENTAGES PAINT	WATER	DUST	OTHER	Q.A.
P01	8830 Vineyard Ave, Building B		28	Blue Paint on Wood Window Frame, N	Blue	13 EA	21	22			
P02	Exterior		28	Pink Paint on Wood Window Frame, E	Pink	4 EA	21	22			
P03	8830 Vineyard Ave, Out Building		36	White Paint on Wood Siding, S	White	40 SF	11	22			
P04	Ext.		28	Blue Paint on Wood Window Frame, S	Blue	4 EA	11	22			
P05	8830 Vineyard Warehouse		45	Yellow Paint on Metal on Bollard, Warehouse @ C	Yellow	3 EA	4222				
P06	8803 Baker		42	White Paint on Plaster Ceiling in Kitchen.	White	145 SF	5221				
P07	8815 Baker ext.		22	Light Brown Paint on Concrete Wall, South End	Light Brown.	30 SF	1321				
P08	8815 int.		22	White Paint on Concrete East Warehouse, N	White.	500 SF	1321				
P09	8847 9th		22	White Paint on North, CMU Concrete, Masonry	White	5 SF	1321				
P10	8729 9th.		41	White Paint on wood JOIST N		40 SF	4121				

01 WATER
02 DUST
03 DOOR, HEADER
04 DOOR JAM
05 DOOR, CASING
06 STAIR, TREADS
07 STAIR, RISERS
08 STAIR, STRINGER
09 BALUSTER
10 RAILING CAP
11 NEWEL POST
12 WINDOW, HEADER
13 WINDOW, CASING
14 WINDOW, SILL
15 WINDOW, SASH
16 WINDOW, STOPS
17 MULLIONS
18 APRON
19 WINDOW GRATE
20 DOOR GRATE
21 BASEBOARD
22 WALLS
23 WALLS, LOWER
24 WALLS, UPPER
25 CHAIR RAIL
26 DOOR, EXTERIOR
27 EXTERIOR, DOOR CASING
28 EXTERIOR, WINDOW CASING
29 EXTERIOR, WINDOW MULLIONS
30 EXTERIOR, WINDOW SILL
31 THRESHOLD
32 DRIPBOARD
33 LOWER TRIM
34 UPPER TRIM
35 CORNERBOARD
36 SIDING
37 CELLAR WINDOW UNIT
38 FLOOR
39 RAILING CAPS
40 SUPPORT COLUMN
41 JOIST
42 CEILING
43 RADIATOR
44 ACCESS HATCH COVER
45 Bollard
46
47
48
49
50

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

PEELING CODE
1 PEELING
2 NOT PEELING
3 UNDAMAGED
4 CHIPPED
5 CHAULKING

SUBSTRATE CODE
1 WOOD
2 METAL
3 MASONRY
4 DRYWALL
5 PLASTER

CHEWABLE SURFACE
1 YES
2 NO

CONTACT CODE
1 LOW
2 MODERATE
3 HIGH

CODE
1
2
3

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

OrderID: 331908337

#331908337

PAGE 2 OF 2

LEAD BULK SAMPLE LOG

ATC
25 CUPANIA CIRCLE
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(323) 517-9780
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PROJECT NO. NPPAN19013

PHASE NO. 00001

PROJECT: 6 Buildings

SURVEYOR(S): Robert de la Torre / Elaine Florence

DATE: 041519 -041919

AREA	AREA NAME/DESCRIPTION	AREA	AREA NAME/DESCRIPTION

UNIT CODES
LF LINEAR FEET
SF SQUARE FEET
EA EACH

PERCENTAGES
P - POSITIVE
N - NEGATIVE
PAINT
WATER
DUST
OTHER
Q.A.

SAMPLE #	BLDG./FLOOR	AREA USAG	COM'T CODE	MATERIAL DESCRIPTION / COLOR	ESTIMATED QUANTITY		
P11	8729 9th (int)		22	LIGHT TAN PAINT ON WEST WALL, MENS RR, suit 110 LIGHT TAN			

01 WATER
02 DUST
03 DOOR, HEADER
04 DOOR JAM
05 DOOR, CASING
06 STAIR, TREADS
07 STAIR, RISERS
08 STAIR, STRINGER
09 BALUSTER
10 RAILING CAP
11 NEWEL POST
12 WINDOW, HEADER
13 WINDOW, CASING
14 WINDOW, SILL
15 WINDOW, SASH
16 WINDOW, STOPS
17 MULLIONS
18 APRON
19 WINDOW GRATE
20 DOOR GRATE
21 BASEBOARD
22 WALLS
23 WALLS, LOWER
24 WALLS, UPPER
25 CHAIR RAIL
26 DOOR, EXTERIOR
27 EXTERIOR, DOOR CASING
28 EXTERIOR, WINDOW CASING
29 EXTERIOR, WINDOW MULLIONS
30 EXTERIOR, WINDOW SILL
31 THRESHOLD
32 DRIPBOARD
33 LOWER TRIM
34 UPPER TRIM
35 CORNERBOARD
36 SIDING
37 CELLAR WINDOW UNIT
38 FLOOR
39 RAILING CAPS
40 SUPPORT COLUMN
41 JOIST
42 CEILING
43 RADIATOR
44 ACCESS HATCH COVER
45 _____
46 _____
47 _____
48 _____
49 _____
50 _____

AREA USAGE CODES
1 VOID/CHASE/CAVITY
2 MECHANICAL
3 STORAGE
4 OCCASIONAL
5 CONTINUOUS

PEELING CODE
1 PEELING
2 NOT PEELING
3 UNDAMAGED
4 CHIPPED
5 CHAULKING

SUBSTRATE CODE
1 WOOD
2 METAL
3 MASONRY
4 DRYWALL
5 PLASTER

CHEWABLE SURFACE
1 YES
2 NO

CONTACT CODE
1 LOW
2 MODERATE
3 HIGH

CODE
1 _____
2 _____
3 _____

FOR LAB USE ONLY

ANALYST'S SIGNITURE/DATE

LAB DIRECTOR'S SIGNITURE/DATE

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
www.atcgroupservices.com
(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
16	1ST	Ext			W	Wall	Stucco	White	0.1
17					W	WF	Wood	Pink	0.1
18					S	Wall	Stucco	White	0.2
19					S	WF	Wood	Blue	0.1
20		8830 Vineyard Ave Break Room			S	WF	Metal	Brown	0.1
21					N	Wall	WB	Light Green	0.1
22					N	D	Metal	Brown	0.2
23					N	DF			0.2
24					N			Blue	0.0
25		(int) Control			C	Ceiling	WB	White	0.0
26					S	W	WB	Peach	0.1
27					W	WF	Wood	White	0.0
28					E	D	Wood	Gray	0.0
29					E	DF		White	0.0
30		(ext)			E	Wall	Wood	Gray	0.1

COMMENTS:

WB = Wall Board

CONDITION OF PAINT:

I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
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Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florne

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
31	1ST	ext Control			N	Wall	Wood	Gray	0.1
32		Warehouse			N	TRIM	Wood	Blue	0.0
33					S	Handrail	Wood	Blue	0.0
34					S	Stair Tread	Wood	Blue	0.0
35					S	Floor Strip	Asphalt	Yellow	0.2
36		RR			W	wall	WB	White	0.0
37					E	wall			0.0
38					E	Urinal	Porcelain	White	0.0
39					E				0.0
40					N	D	Wood	White	0.0
41					N	DF			0.0
42					E	WF	Metal	Blue	0.0
43					E	Toilet	Porcelain	White	0.1
44		Warehouse			N	DF	Metal	White	0.1
45					N	Sliding Door	Metal		0.2

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
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(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
46	1ST	Ext. Wall			N	Wall	Metal	White	0.1
47	↓	↓			W	Wall	↓	↓	0.2
48					W	Sliding Door	↓	↓	0.0
49					S	Wall	↓	↓	0.1
50					S	Door Frame	↓	Blue	0.5
51					S	Door	↓	↓	0.7
52					S	WF	↓	Blue	0.1
53					S	Bollard	Steel	Yellow	0.1
54	↓	↓			S	DF	Metal	Green	0.0
55	—	END CALIBRATE	—	—	—	—	—	—	1.1
56	—	↓	—	—	—	—	—	—	1.0
57	—		—	—	—	—	—	—	1.1
58	—	↓	—	—	—	—	—	—	0.0
59	—	BEGINNING CALIBRATION	—	—	—	—	—	—	1.0
60	—	↓	—	—	—	—	—	—	1.1

COMMENTS:

Ext wall are corrugated metal

CONDITION OF PAINT:

I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
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(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Flores

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
61	–	CALIBRATION							1.0
62	–	↓							0.0
63	1st	8803 Baker LV			S	Wall	P	White	0.0
64	↓	↓			E	Wall	P	White	0.0
65		↓			N	Wall	P	White	0.0
66		↓			S	WF	Wood	Stained	0.1
67		↓			S	DF	Wood	Stained	0.0
68		Hallway			N	Wall	P	White	0.0
69		↓			S	Wall	P	↓	0.3
70		Kitchen			W	Wall	P	↓	0.4
71		↓			S	↓	↓	↓	0.2
72		↓			S	Ceiling	↓	↓	0.0
73		↓			E	Sink	Porcelain	White	0.3
74		↓			E	Cabinet	Wood	Blue	0.0
75	↓	↓			N	Wall Tile ~~Ceramic~~	Ceramic	Tan	0.1

COMMENTS: W - Wall
P - Plaster. Ceilings in HW not painted

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
www.atcgroupservices.com
(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
76	1st	8803 Baker Kitchen			C	Floor Tile	Ceramic	Grey	0.5
77	↓	↓ ↓			N	D	Wood	White	0.0
78	↓	~~Bathroom~~			N	DF	Wood	↓	0.0
79	↓	Bathroom			S	Ceiling	Plaster	White	0.2
80	↓	↓			E	Wall Tile	Ceramic	Green	0.2
81	↓	↓			Center	↓	↓ Porcelain	↓	0.0
82	↓	↓			W	Toilet	↓	White	0.0
83	↓	↓			W	Sink	↓	↓	0.4
84	↓	Bedroom #2			N	Wall	Plaster	Blue	0.2
85	↓	↓			E	↓	↓	White	0.3
86	↓	↓			S	↓	↓	↓	0.2
87	↓	↓			S	D	Wood	↓	0.0
88	↓	↓			S	DF	↓	↓	0.0
89	↓	Bedroom #3			E	W	Plaster	Green	0.0
90	↓	↓			S	W	↓	↓	0.0

COMMENTS:

No Paint in Bedroom #1.

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
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Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
91	1st	8803 Bikers Bedroom #3			N	D	Wood	White	0.0
92	↓	↓ ↓			N	DF	↓	↓	0.0
93		LUNCH CALIBRATION							1.1
94		|							1.1
95		|							1.1
96		|							0.0
97		RETURN							1.1
98		|							1.0
99		|							1.1
100		|							0.0
101		↕ Main Area			N	Wall	Concrete	White	0.1
102	1st	8855 Bikers - Main Area			E	Wall	Drywall	↓	0.1
103		Office #1			N	Wall	Concrete	↓	0.1
104		Office #1			W	↓	Drywall	↓	0.0
105		Office #1			E	WF	Wood	↓	0.0

COMMENTS:

CONDITION OF PAINT:
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Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florne

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
106	1st	8855 Baker Office #1			E	Door	Wood	White	0.2
107	↓	↓			E	Door Frame	↓	↓	0.1
108	↓	office #2			W	Wall	Concrete	↓	0.1
109	↓	↓			S	↓	Drywall	↓	0.0
110	↓	office #3			S	↓	↓	↓	0.0
111	↓	↓			W	↓	Concrete	↓	0.2
112	↓	Hallway near office 113			S	↓	Drywall	↓	0.0
113	↓	↓			E	↓	↓	↓	0.0
114	↓	↓			S	Door	Wood	↓	0.0
115	↓	↓			S	DF	↓	↓	0.0
116	↓	Room 10			W	Wall	Drywall	↓	0.1
117	↓	↓			E	Wall	↓	↓	0.1
118	↓	Room 11			W	↓	↓	↓	0.0
119	↓	↓			N	↓	↓	↓	0.0
120	↓	↓			S	WF	Wood	↓	0.2

COMMENTS:

CONDITION OF PAINT:
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Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
121	1st	8855 Baker Office #4			N	Wall	Drywall	White	0.0
122					S				0.0
123		Men's RR			S				0.2
124					N		Concrete	Light Brown	0.1
125					N	Door	Wood	White	0.0
126					N	DF			0.1
127					E	Sink	Porcelain		0.0
128					E	Urinal			0.0
129					E	Toilet			0.0
130		Women's RR			N	Sink			0.0
131					N	Sink			0.0
132					W	Toilet			0.0
133					W				0.2
134					W				0.0
135					Center	D	Metal	Light Brown	0.1

COMMENTS:

CONDITION OF PAINT:
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Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Hoang

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
136	1st	8855 Baker Hallway			W	Wall	Drywall	White	0.0
137		new Womens RR.			E				0.0
138		Office #5			N				0.0
139					S				0.2
140					N	WF	Wood		0.0
141		copy Rm			W	Wall	Drywall		0.0
142					N	↓	↓		0.0
143		office #6			N				0.0
144					E				0.0
145		Breakroom			N				0.2
146		↓			E	↓			0.0
147		Office #7			S				0.0
148					N				0.0
149		office #8			S				0.1
150					N				0.1

COMMENTS:

CONDITION OF PAINT:
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Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Hoang

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
151	1st	office #7			S	WF	Drywall	White	0.0
152	|	office #8			W	Door	Wood	|	0.0
153	|	|			W	DF	|	|	0.0
154	|	Conf. room			S	Wall	Drywall	|	0.1
155	|	|			E	|	|	|	0.1
156	|	(exit door)			N	Door	Metal	Brown	0.0
157	|	office #9			N	DF	|	|	0.1
158	|	|			E	Wall	Drywall	White	0.0
159	|	|			S	|	|	|	0.0
160	|	Stairs	F	40 LF	W	Stair Rail	Metal	Brown	1.6
161	|	↓	F	75 LF	W	Stair Rail support	|	|	2.7
162	2nd	Mezanine	Mezanine Main Area		E	Door	Wood	White	0.0
163	|	|			E	DF	|	|	0.0
164	|	|			S	Wall	Drywall	|	0.1
165	|	|			W	|	|	|	0.0

COMMENTS:

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Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
166	2nd	Mezzanine office#1			N	Wall	Concrete	White	0.1
167					S		Drywall		0.1
168					E	D	Wood		0.2
169					E	DF			0.1
170		office #2			E	WF			0.1
171					N	Wall	Drywall		0.0
172					S	Wall			0.1
173		office#3			N				0.0
174					W		Concrete		0.2
175					S	WF	Wood		0.0
176		office#4			S	Wall	Drywall		0.0
177					E				0.0
178					W	Door	Wood	Brown	0.0
179						DF	Metal		0.1
180		Mens RR			E	Sink	Porcelain	White	0.0

COMMENTS:

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Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
181	2nd	Mezzanine Men's RR			N	Wall	Drywall	White	0.0
182		|			E	|	|	|	0.2
183		|			N	|	|	Light Brown	0.0
184		|			E	Toilet	Porcelain	White	0.1
185		Women's RR			W	|	|	|	0.1
186		|			W	|	|	|	0.1
187		|			W	Sink	|	|	0.1
188		|			S	Wall	Drywall	White	0.1
189		|			S	|	Concrete	Light Brown	0.1
190		|			E	|	|	|	0.0
191		|			N	Door	Wood	White	0.2
192		|			N	DF	|	|	0.1
193		Office #5			S	WF	Metal	|	0.0
194		|			S	W	Drywall	|	0.0
195		|			N	W	|	|	0.1

COMMENTS:

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Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Florez

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
196	2nd	Mezzanine office #6			W	Wall	Drywall	white	0.1
197					E				0.0
198					N	Door	Wood		0.0
199					N	DF			0.0
200		Computer Room			N	Wall	Concrete		0.3
201					W		Drywall		0.0
202					S	Wall	Wood		0.0
203		Stairs near office #4	F	28 LF	S	Stair Rail	Metal		2.6
204	1st	Main Area Bottom of stairs near	F	16 LF	S	Stair mullion			4.0
205	1st	Main Area Stairs by front main entry	I	20 LF	W	Stair riser			5.4
206			I	40 LF	W	Stair mullion			7.5
207			I	32 LF	W	Stair Rail			2.9
208	—	END CALIBRATION	—	—	—	—	—	—	1.1
209	—	—	—	—	—	—	—	—	1.0
210	—		—	—	—	—	—	—	1.1

COMMENTS:

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Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
211	—	|	—	—	—	—	—	—	0.0
212	—	BEGINNING CALIBRATION	—	—	—	—	—	—	1.1
213	—	|	—	—	—	—	—	—	1.1
214	—	|	—	—	—	—	—	—	1.1
215	—	|	—	—	—	—	—	—	0.0
216	1st	8855 Baker WAREHOUSE RR WOMENS			N	DF	Metal	White	0.2
217		(int)			W	Stall Support	↓	Forest Green	0.0
218					W	Stall door	↓	↓	0.0
219					W	Toilet	Porcelain	White	0.0
220					W	|	|	|	0.1
221					W	|	|	|	0.0
222					W	|	|	|	0.0
223					W	|	|	|	0.0
~~224~~		↓			E	Sink	|	|	0.2
225		(ext) ↓			N	Wall	Drywall	|	0.3

COMMENTS:

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Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Florne

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
226	1st	8855 Baker WAREHOUSE RR (Ext) Women's RR.			W	Wall	Drywall	White	0.0
227					S				0.0
228		Mens RR			N				0.0
229					E				0.0
230			F	1 EA	S	Sink	Porcelain		23.4
231		(Int)			N	Door			0.0
232					N	DF	Metal		0.0
233					E	Urinal	Porcelain		0.2
234									0.3
235									0.0
236					W	Toilet			0.0
237									0.1
238									0.2
239									0.0
240					E	Sink			0.2

COMMENTS:

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Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
241	1st	East Warehouse			W	Rail	Metal	Yellow	0.0
242					W	Wall	Concrete	White	0.3
243					W	Wall Support Column	Metal		0.0
244					W	DF	↓		0.1
245					N	Wall	Concrete		0.1
246					N	Door	Metal	Blue	0.0
247					N	DF			0.1
248					N	Wall	Concret	White/Blue	0.4
249					E	D	Wood	Brown	0.7
250					E	DF	Metal	↓	0.0
251					E	Wall	Concrete	White	0.2
252					E	Floor	↓	White	0.2
253					E	Floor Stripe	↓	Yellow	0.3
254					E	Pole	Metal	Yellow	0.0
255		West Warehouse			E	Wall	Concrete	White	0.2

COMMENTS:

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Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
256	1st	West Warehouse			S	Wall	Concrete	White	0.3
257	|	|			S	Door	Metal	Blue	0.0
258	|	|			S	DF	|	|	0.1
259	|	SW Storage Rooms Ext |			S	Wall	Drywall	White	0.0
260	|	| (Int) Room 1			S	|	Concrete	Blue Dark	0.0
261	|	| | |			N	↓	Drywall	|	0.0
262	|	| | |			N	Floor	Concrete	Gray	0.2
263	|	| | Room 2			S	Wall	Concrete	Blue Dark	0.0
264	|	| | |			E	|	Drywall	↓	0.0
265	|	| | |			E	Door	Metal	Blue	0.2
266	|	| | |			E	DF	↓	↓	0.0
267	|	| Storage Room | Ext			S	Ladder	Metal	Blue	0.1
268	|	8555 Baker Exterior			N	Wall	Concrete	White	0.2
269	|	↓ ↓			W	Wall	|	|	0.0
270	|	↓ ↓			N	Support Beam	Wood	|	0.0

COMMENTS:

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Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
271	—	LUNCH CALIBRATION	—	—	—	—	—	—	1.1
272	—	|	—	—	—	—	—	—	1.1
273	—	|	—	—	—	—	—	—	1.1
274	—	|	—	—	—	—	—	—	0.0
275	—	RETURN CALIBRATION	—	—	—	—	—	—	1.2
276	—	—	—	—	—	—	—	—	1.0
277	—	|	—	—	—	—	—	—	1.0
278	—	|	—	—	—	—	—	—	0.0
279	1st	8847 9th St Ext			N	Wall	CMU	White	0.4
280	|	|			N	Awning Support Rail	Metal	White	0.1
281	|	|			N	Awning Ceiling	Metal	|	0.5
282	|	|			N	Door	Metal	Brown	0.1
283	|	|			N	DF	Wood	White	0.0
284	|	|			E	Wall	CMU	White	0.2
285	|	|			E	Sliding Door Track	Metal	↓	0.0

COMMENTS:

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Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
286	1st	88479th. Ext.			S	Wall	CMU	White	0.4
287					W	Wall	CMU	White	0.2
288					W	DF	Wood		0.0
289					W	Sliding Door	Track Metal		0.0
290		Warehouse Storage / Int.			W	Wall	CMU		0.1
291					S				0.1
292					N				0.2
293					W	Stairs	Wood		0.1
294					W	Vertical support post		Brown	0.2
295					E				0.0
296					C	Cage Wall		White	0.1
297		PP#2			N	Wall	Wall Board		0.0
298					S				0.1
299					C	Ceiling			0.0
300					W	Sink	Porcelain		0.1

COMMENTS:

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Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Flores

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
301	1st	8847 9th RR#2			W	Toilet	Porcelain	white	0.0
302					S	Door	Wood	White	0.0
303					S	DF	↓	↓	0.0
304		Hallway			W	Wall	Wallboard		0.1
305					E	↓	↓	↓	0.0
306					S	Door	Wood	Brown	0.0
307					S	DF	↓	White	0.1
308		RR#1			N	Wall	CMU		0.2
309					S	Wall	Wallboard		0.1
310					W	Ceiling	Wallboard		0.0
311					W	Toilet	Porcelain		0.0
312					W	Sink	↓	↓	0.2
313					E	DF	Wood	Brown	0.0
314		office cubicle area			W	DF		↓	0.0
315		↓			W	Door	↓	White	0.0

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Date: 4/15 - 4/19 2019
Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Florne

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
316		8847 9th office cubicle area			S	Wall	Wallboard	purple-pink	0.1
317					N	Wall	↓	White	0.0
318					E	Door	Wood	↓	0.0
319					W	DF	↓	Brown	0.0
320		entry area			W	Wall	Wallboard	White	0.2
321					E	↓	↓	↓	0.0
322					N	Security Bar	Metal	White	0.2
323		END CALIBRATION							1.1
324									1.0
325									1.0
326									0.0
327		BEGINNING CALIBRATION							1.1
328									1.1
329									1.1
330									0.0

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

ATC
25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
www.atcgroupservices.com
(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019
Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Hoang

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
331	1st	8729 9th, Suite 110 CUBICLE AREA			S	Wall	Wallboard	LIGHT TAN	0.0
332					E	Wall	↓	LIGHT BLUE	0.0
333					N	↓	↓	LIGHT TAN	0.0
334					W	↓	↓	↓	0.0
335					W	DF	Metal	Black	0.0
336					W	Door	Wood	Brown	0.0
337		SMALL OFFICE			W	DF	Wood	Sky Blue	0.0
338					W	Door	Wood	Brown	0.0
339		RADIO ROOM			S	Wall	CMU	White	0.0
340					S	Door	Wood	↓	0.7
341					S	DF	↓	↓	0.5
342					E	Door	↓	Green	0.0
343					E	DF	↓	White	0.3
344					E	Wall	CMU	↓	0.1
345		WOMENS RR			E	Door	Wood	Brown	0.0

COMMENTS:

CONDITION OF PAINT:
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Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
346	1st	8729 9th Suite 110 Women's RR			E	DF	Metal	Black	0.0
347		Men's RR			E	Door	Wood	Brown	0.0
348		Men's RR.			E	DF	Metal	Black	0.0
349					N	Wall	WB	LIGHT TAN	0.0
350					S	Wall			0.0
351					N	Toilet	Porcelain	White	0.0
352					N	Urinal			0.1
353					E	Sink			0.2
354		WOMEN'S RR			S	Sink			0.0
355					S	Toilet			0.0
356		8829 9th, Suite 100 entry area			N	Wall	WB	LIGHT TAN	0.1
357					W				0.1
358					S			LIGHT BLUE	0.0
359		reception area,			E			LIGHT TAN	0.0
360					S				0.0

COMMENTS:

CONDITION OF PAINT:
I INTACT
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Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
361	1st	8729 9th, Suite 100 entry area			N	Door	Metal	Black	0.2
362					N	DF			0.1
363		reception area			W	Door	Wood	Brown	0.0
364					W	DF	Metal	Black	0.0
365	1st	stairs			N	Wall	WB	LIGHT BLUE	0.0
366					S				0.0
367					N	Stair Rail	Wood	LIGHT TAN	0.0
368		STORAGE UNDER STAIRS			N	Wall	WB		0.0
369					S				0.1
370					E				0.0
371					W	Door	Wood	Brown	0.0
372					W	DF	Metal	Black	0.0
373		office #1			W	Wall	WB	LIGHT TAN	0.0
374					N				0.0
375					W	Door	Wood	Brown	0.0

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

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(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florence

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
376	1st	8729 9th. Suite 100 office #1			W	DF	Metal	Black	0.0
377		DOWNSTAIRS RR			N	Wall	WB	LIGHT TAN	0.1
378					S	↓	↓	↓	0.0
379					E	Sink	Porcelain	White	0.0
380					E	Toilet	↓		0.0
381		office #2			N	Wall	WB	LIGHT TAN	0.1
382		↓			S	↓	↓	↓	0.0
383		office #3			N				0.2
384					E				0.0
385					S	↓	↓	LIGHT BLUE	0.0
386		office #4			E	Door	Wood	White	0.2
387		↓			E	DF		↓	0.0
388					E	DF		LIGHT BLUE	0.0
389					W	Door		BLUE	0.1
390					W	DF	↓	White	0.0

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
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Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
391	1st	8729 9th, Suite 100 Office #4			S	Wall	WB ~~Drywall~~	LIGHT TAN	0.0
392					E			LIGHT BLUE	0.0
393		Office #5			S			LIGHT TAN	0.0
394					E				0.1
395		Office #6			N	Wall			0.2
396					S				0.2
397					E	Door	Wood	Brown	0.0
398					E	DF	Metal	Black	0.2
399					W	Wall	Wall Board w/ Wax	LIGHT TAN	0.0
400		DOWN STAIRS HALLWAY			E				0.0
401					W				0.0
402	2ND	Office #1			S				0.0
403					N				0.0
404					S	Door	Wood	Brown	0.0
405					S	DF	Metal	Black	0.1

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

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Date: 4/15 - 4/19 2019 Client: Panattoni Spectrum Analyzer ID #: H1706

Project No.: NPPAN 19013 Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).

Phase No.: 00001 Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
406	2ND	8729 9th, Suite 100 office #2			W	Wall	Wall Board	LIGHT TAN	0.0
407					N				0.2
408		UPSTAIRS RR			E				0.1
409					S				0.0
410					E	Toilet	Porcelain	White	0.0
411					W	Sink			0.2
412		office #3			N	Wall	WB	LIGHT TAN	0.0
413					W				
414					N	Door	Wood	Brown	
415					N	DF	Metal	Black	
416		office #4			E	~~Door~~ WALL	WB	LIGHT ~~TAN~~ BLUE	0.1
417					E	DF	WOOD	LIGHT BLUE	0.0
418					W	WALL	WB	LIGHT TAN	0.0
419					W	WF	WB		0.0
420					S			LIGHT BLUE	0.0

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

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25 CUPANIA CIRCLE
MONTEREY PARK, CA 91755
www.atcgroupservices.com
(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019
Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NPPAN 19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave).
Phase No.: 00001
Inspector(s): Roberto de La Torre / Elaine Florenc

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
421	2ND	8729 9th, Suite 100 office #5			N	WALL	WB	LIGHT TAN	0.1
422	↓	↓			E	↓	↓	↓	0.0
423	↓	↓			E	DOOR	WOOD	BROWN	0.0
424	↓	↓			E	DF	Metal	BLACK	0.2
425	↓	↓			W	WF	WB	LIGHT TAN	0.0
426	2ND	office #1			E	WF	↓	↓	0.0
427	↓	office #3			S	DOOR	Metal	LIGHT BLUE	0.1
428	↓	↓			S	DF	↓	↓	0.1
429	↓	↓			S	WF	WB	↓	0.0
430	1st	office #6			W	↓	↓	LIGHT TAN	0.1
431	1st	8729 9th - Ext			N	Wall	Stucco	↓	0.0
432	↓	↓			W	↓	CMU	↓	0.0
433	↓	↓			S	↓	CMU	↓	0.1
434	↓	↓			E	↓	↓	↓	0.0
435	↓	↓			N	Wall	CMU	White	0.5

COMMENTS:

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

XRF LEAD BASED PAINT SURVEY

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MONTEREY PARK, CA 91755
www.atcgroupservices.com
(323) 517-9780
(323) 517-9781

Date: 4/15 - 4/19 2019
Client: Panattoni
Spectrum Analyzer ID #: H1706
Project No.: NP PAN19013
Survey Location: Rancho Cucamonga (9th St / Vineyard Ave)
Phase No.: 6000
Inspector(s): RDLT / EH

Sample No.	Floor	Room / Area	Condition Of Paint	Quantity Of Lead	Location N,E,S,W	Surface	Substrate	Color	Result (mg / cm²)
436	1st	8729 9th St Ext	F	250 LF	N	Striping Floor	Concrete	Yellow	2.7
437	↓	↓	F	500 LF	E	↓	↓	↓	1.7
438	↓	↓			E	↓	↓	Blue	0.0
439	↓	↓			W	WF Bar	~~White~~ Metal	White	0.0
440	↓	↓			W	↓	↓	↓	0.2
441	↓	↓			N	Overhang	Wood	White	0.0
442		↓			N	Joist	↓	↓	0.0
443		↓			N	Fascia	↓	Green	0.0
444		↓			S	Stair Rail	Metal	White	0.0
445		↓			S	gutter	↓	White	0.0
446		↓			S	~~gutt~~ Stair support	Wood	Green	0.0
447		END CALIBRATION							1.0
448									1.0
449									1.1
450									0.0

COMMENTS: 16 x 30 LF + 15LF + 13x6 + 50 + 18 + 7x9 + 7 + 32
480 437 (E) 436 (N)
500LF 250

CONDITION OF PAINT:
I INTACT
F FAIR - Small Amount Flaking
P POOR - Large Amounts Flaking

Appendix H-4

Soil Management Plan

SOIL MANAGEMENT PLAN

SWC 9th Street & Vineyard Avenue
Rancho Cucamonga, California 91730

June 4, 2021

AVOCET
ENVIRONMENTAL, INC.

SOIL MANAGEMENT PLAN

SWC 9th Street & Vineyard Avenue
Rancho Cucamonga, California 91760

June 4, 2021

PREPARED FOR

CP Logistics Vineyard, LLC c/o Panattoni Development Company, Inc.
7887 East Belleview Avenue, Suite 475
Denver, Colorado 80111

PREPARED BY

Avocet Environmental, Inc.
1 Technology Drive, Suite C515
Irvine, California 92618-5302

Project No. 1592.005

AVOCET ENVIRONMENTAL, INC.

June 4, 2021 Project No. 1592.005

CP LOGISTICS VINEYARD, LLC
c/o Mr. Guillermo Accame
Director of Risk Management
PANATTONI DEVELOPMENT COMPANY, INC.
7887 East Belleview Avenue, Suite 475
Denver, Colorado 80111

Soil Management Plan
SWC 9th Street & Vineyard Avenue
Rancho Cucamonga, California 91730

Dear Mr. Accame:

Attached is a Soil Management Plan (SMP) for the approximately 47.48-acre, nine-parcel assemblage on the southwest corner (SWC) of 9th Street and Vineyard Avenue in Rancho Cucamonga, California (the site). If you have any questions or would like to discuss the SMP, please do not hesitate to contact the undersigned at (949) 296-0977 Ext. 102 or at pmiller@avocetenv.com.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Philip Miller, P.E.
Principal

PM:sh
Enclosure

P:\1592 Panattoni-9th and Vineyard RC\005_Phase II Update + SMP\Soil Management Plan\SMP_SWC 9th+Vineyard_RC_2021-06-04.docx

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2	Site Plan
3	Step-Out Sample Locations

LIST OF ABBREVIATIONS AND ACRONYMS

DTSC	California Department of Toxic Substances Control
DTSC-SL	DTSC-modified Screening Level
EPA	U.S. Environmental Protection Agency
ESA	environmental site assessment
ESL	Environmental Screening Level
MEK	methyl ethyl ketone
mg/kg	milligram per kilogram
OCP	organochlorine pesticide
OVA	organic vapor analyzer
PCB	polychlorinated biphenyl
PCE	tetrachloroethylene
PID	photoionization detector
POLs	petroleum, oils, and lubricants
RSL	Regional Screening Level
SCAQMD	South Coast Air Quality Monitoring District
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SMP	Soil Management Plan
SVOC	semivolatile organic compound
SWC	southwest corner
TCE	trichloroethylene
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons as diesel
TPH-g	total petroleum hydrocarbons as gasoline
TPH-o	total petroleum hydrocarbons as oil
$\mu g/m^3$	microgram per cubic meter
UST	underground storage tanks
VOC	volatile organic compound

1.0 INTRODUCTION

This Soil Management Plan (SMP) specifies the procedures to be followed prior to, during, and after excavating or otherwise disturbing soil at the approximately 47.48-acre, nine-parcel assemblage on the southwest corner (SWC) of 9th Street and Vineyard Avenue in Rancho Cucamonga, California (the site). Avocet Environmental, Inc. (Avocet) prepared this SMP on behalf of CP Logistics Vineyard, LLC, c/o Panattoni Development Company, Inc. Avocet understands CP Logistics Vineyard, LLC plans to demolish the existing improvements and redevelop it for commercial purposes. The site location is shown in Figure 1 and an aerial photograph of the site is presented in Figure 2.

1.1 BACKGROUND INFORMATION

Previous environmental work by Avocet at the subject site included a Phase I environmental site assessment (ESA) followed by a Phase II subsurface investigation that involved the collection and analysis of soil matrix and soil vapor samples.

1.1.1 Phase I ESA

Based on Avocet's Phase I ESA, the site was used for agriculture from at least as far back as 1938 and up to as recently as 1959 (Avocet, June 14, 2019). Specifically, a majority of the site was planted with trees, assumed to have been citrus trees. In its Phase I ESA report, Avocet noted that organochlorine pesticides (OCPs) were widely used in orchards in the United States in the 1930s through 1950s. In addition to agriculture, portions of the site featured residential structures, one of which is still standing at 8803 Baker Avenue. Commercial and industrial development at the site began as early as 1949, with the addition of a welding shop, although it has since been removed (Avocet, June 14, 2019). Current or recent commercial/industrial use of the site includes Merchant Landscape Services (Merchant Landscape) at 8847 East 9th Street; a radio station and associated radio masts at 8729 East 9th Street; a steel manufacturing company, Scheu Steel Supply (Scheu Steel), at 8830 Vineyard Avenue; and a warehouse used by Ecoplast at 8855 Baker Avenue. The remainder of the site is vacant, undeveloped land (Figure 2).

The site has featured a total of nine underground storage tanks (USTs) in the past. As shown in Figure 2, seven of the USTs were located at 8855 Baker Avenue and were operated by Patrini Shoes, a former tenant. All seven USTs had a capacity of 2,000 gallons and six contained methyl ethyl ketone (MEK) while one contained methyl isobutyl ketone. The two remaining USTs were located at 8830 Vineyard Avenue and were operated by Scheu Steel: a 4,000-gallon tank for diesel fuel and a 1,000-gallon tank for gasoline. Although available laboratory data did not indicate that the USTs had impacted the subsurface and none of the regulatory agencies involved in the removal of these USTs appear to have requested additional sampling or investigation, no formal UST closure documentation was available. Other conditions and/or features at the site include the documented storage of pesticides and herbicides by Merchant Landscape, and both Merchant Landscape and Scheu Steel operated and maintained equipment that contains petroleum, oils, and lubricants (POLs), and Avocet observed POL stains in certain work areas.

1.1.2 Phase II Investigation

Based on the above, Avocet conducted a Phase II investigation at the site in April 2019, which involved the collection and analysis of soil matrix and soil vapor samples. Avocet's Phase II investigation locations are shown in Figures 2 and 3.

The investigation (Avocet, June 17, 2019) addressed the possible presence of residual pesticides, including arsenic and lead, in near-surface soils at the site in accordance with California Department of Toxic Substances Control (DTSC) guidance. Although trace concentrations of a few OCPs were detected, the concentrations were well below potentially applicable screening levels. Arsenic was not detected in near-surface soil, and the reported lead concentrations were below potentially applicable screening levels.

Avocet also investigated potential impacts to shallow soil in the vicinity of the Merchant Landscape and Scheu Steel buildings, where POLs and pesticides had been used or stored. In brief, oil stains visible at the ground surface appeared to be *de minimis*; however, one soil sample collected from Boring B-8, located immediately outside of the Merchant Landscape building (Figure 2), contained naphthalene at a concentration marginally above the industrial DTSC-modified Screening Level (DTSC-SL). Pursuant to this detection, Avocet conducted step-out soil sampling to the north, west, and south of Boring B-8 (Figure 3); however, naphthalene was not detected in any of the step-out samples. Based on the analytical results from the step-out borings, Avocet concluded the surficial soil impacts visible at the ground surface are highly localized around Boring B-8 and may not extend beyond the visible staining. Moreover, the 5-foot soil sample from Boring B-8, although not analyzed for volatile organic compounds (VOCs), did not contain total petroleum hydrocarbons (TPH), indicating that impacted soil is also limited vertically within 2 or 3 feet of the ground surface. Based on the investigation results, Avocet recommended that the soil in the immediate vicinity of Boring B-8 be segregated during site redevelopment activities, sampled for profiling purposes, and transported offsite to the appropriate disposal facility (Avocet, June 17, 2019).

As it was not addressed during the removal of the former Patrini Shoes and Scheu Steel USTs in the early 1990s, Avocet collected soil vapor samples from probes installed in the immediate vicinity of the former USTs. MEK, which was stored in six of the seven 2,000-gallon USTs operated by Patrini Shoes, was detected in only one soil vapor sample, collected from Probe SV-3 (Figure 2). The trace concentration of MEK indicated insignificant residual impacts, and conservatively calculated potential indoor air concentrations were considered negligible. Trace concentrations of the fuel-related aromatic VOCs, specifically toluene and ethylbenzene, were detected in the soil vapor samples from Probes SV-4 and SV-5, located near the former Scheu Steel gasoline and diesel USTs; however, the calculated potential indoor air concentrations were also well below potentially applicable screening levels. In addition to the above, tetrachloroethylene (PCE) and trichloroethylene (TCE) were detected in multiple soil vapor samples at maximum concentrations of 13 and 35 micrograms per cubic meter ($\mu g/m^3$), respectively. There is no known source of PCE or TCE at the site, and the site does not appear to be near or overlie any of the regional chlorinated solvent groundwater plumes in the Chino

Subbasin. Regardless, a conservative preliminary vapor intrusion assessment indicated that the potential concentrations of PCE and TCE in indoor air would be below industrial indoor air screening levels.

1.2 SMP Objectives

Although the Phase II investigation did not identify any significant subsurface impacts, impacted soil could be encountered during site clearance and redevelopment. The purpose of this SMP is to provide guidance to ensure that the site is cleared and redeveloped in accordance with the applicable agency regulations and permitting programs. Specific objectives are to help ensure that:

- In the event contaminated soil is identified, procedures are in place to minimize the potential for workers involved in building demolition, subsurface structure and foundation removal, and redevelopment grading to be unexpectedly exposed to contaminants in soil.
- Soil disturbed during demolition, subsurface structure and foundation removal, and redevelopment grading is properly evaluated in terms of whether it is suitable for onsite reuse, unrestricted offsite reuse, or should be transported offsite to an appropriate disposal or recycling facility.
- Soil imported to the site, if any, does not contain contaminants at unacceptable concentrations.

To evaluate disturbed soil in the context of onsite reuse or unrestricted offsite reuse, representative samples will be collected for analysis and contaminant concentrations, if any, will be compared to both commercial/industrial and residential screening levels. Notwithstanding that the redeveloped site will be used for commercial/industrial purposes, imported soil, if any, will be evaluated in terms of the more conservative residential screening levels only. The screening levels (detailed in Section 1.3) will be applied as follows:

Onsite Soil Disturbed During Site Clearance and Redevelopment – Testing Required	
No residential screening levels exceeded	Disturbed soil can be reused onsite or exported for unrestricted offsite reuse
Residential screening levels exceeded but no commercial/industrial screening levels exceeded	Disturbed soil can be reused onsite or transported offsite for disposal or treatment
Commercial/industrial screening levels exceeded	Disturbed soil should be transported offsite for disposal or treatment
Soil Imported from Offsite Residential Sources	
Testing prior to importation may be waived, provided the Panattoni environmental team has reviewed and affirmatively approved the source	
Soil Imported from Offsite "Greenfield" Sources	
Testing prior to importation may be waived, provided the Panattoni environmental team has reviewed and affirmatively approved analytical data and/or other information provided by supplier	
Soil Imported from Offsite Commercial/Industrial Source(s) – Testing Required	
No residential screening levels exceeded	Soil can be imported for onsite use
Residential screening levels exceeded	Soil should be rejected

As indicated above, soil imported from residential properties that have never been used for agriculture or commercial/industrial purposes and that do not directly border agricultural or commercial/industrial properties can be imported without being tested, although Avocet recommends that the material be screened as it is loaded at the borrow source and/or as it arrives at the subject site for verification purposes. Soil screening procedures are outlined in Section 3.1. Greenfield sources generally should be limited to commercial quarries or gravel pits, where the potential for impacts from agriculture and/or commercial/industrial land uses are minimal. The operators of commercial quarries or gravel pits often can provide representative analytical data for the material they supply.

1.3 SOIL SCREENING LEVELS

To evaluate disturbed soil in the context of onsite reuse or unrestricted offsite reuse, contaminant concentrations, if any and excluding arsenic, will be compared to commercial/industrial or residential screening levels developed by the U.S. Environmental Protection Agency (EPA), DTSC, and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). Soil considered for import to the site will be screened against residential screening levels only. In order of preference, Avocet proposes to screen disturbed soil as follows:

- With the exception of arsenic, contaminant concentrations will be compared to the latest residential or commercial/industrial DTSC-SLs. As of the date this SMP, the most recent DTSC-SLs were published in June 2020.

- If DTSC-SLs are not available, and again with the exception of arsenic, contaminant concentrations will be compared to the latest EPA residential or commercial/industrial "Regional Screening Levels" (RSLs). As of the date this SMP, the most recent RSLs were published in May 2021.

- Concentrations of TPH as gasoline (TPH-g), TPH as diesel (TPH-d), and TPH as oil (TPH-o) will be compared to the latest SFBRWQCB "Environmental Screening Levels" (ESLs) for direct exposure. As of January 2019, these ESLs are as follows:

	SFBRWQCB ESLs for Direct Exposure (Units are milligrams per kilogram or mg/kg)		
	Residential Shallow Soil	**Commercial/Industrial Shallow Soil**	**Construction Worker**
TPH-g	430	2,000	1,800
TPH-d	260	1,200	1,100
TPH-o	12,000	180,000	54,000

- As naturally occurring arsenic concentrations throughout the western United States are typically well above DTSC-SLs and EPA RSLs, concentrations will be compared to the accepted southern California background range of up to 12 mg/kg (Chernoff, 2008).

The screening process above is intended to be conservative and simple to implement without having to seek regulatory agency approval at multiple stages during the redevelopment process.

1.4 APPLICABILITY

This SMP and the procedures herein apply only to "qualifying" excavations that involve the removal or disturbance of more than 1 cubic yard of soil within specific "project limits." Activities that could involve qualifying excavations include removing subsurface stormwater infrastructure or septic systems, removing building foundations, over-excavation beneath future buildings, subsurface utility installation, and more general site grading prior to paving the exterior areas. For SMP purposes, project limits are defined as the lateral and vertical extent of the qualifying excavations. Nothing in this SMP requires excavation of contaminated soil (if any) to depths or areas beyond the project limits.

The applicability of this SMP to post-development conditions will be evaluated after the site has been redeveloped and addressed in a report (Section 4.0) documenting post-redevelopment environmental conditions at the site.

1.5 CONTACTS

The following persons are familiar with environmental conditions at the site and can be contacted if there are any questions about this SMP or if conditions other than those anticipated in this SMP are encountered in the field.

Contact	Affiliation	Telephone Numbers
Willy Accame	Panattoni	Office: (303) 846-5885 Cell: (303) 210-0262
Kristen Dickey	Panattoni	Office: (303) 846-5837 Cell: (303) 518-6414
Philip Miller, P.E.	Avocet	Office: (949) 296-0977 Ext. 102 Cell: (949) 933-6380
Jessica Satterlee, P.E.	Avocet	Office: (949) 296-0977 Ext. 110 Cell (310) 938-7120
Colin Kilbourne	Avocet	Office: (949) 296-0977 Ext. 105 Cell (949) 300-3286

2.0 PRE-FIELD PROCEDURES

The following steps should be taken prior to conducting any intrusive redevelopment activities within the site boundary.

2.1 SCAQMD RULE 1166 COMPLIANCE

South Coast Air Quality Management District (SCAQMD) Rule 1166 regulates VOC emissions to ambient air while excavating, grading, handling, and treating "VOC-contaminated soil." Rule 1166, a copy of which is included in Appendix A, defines VOC-contaminated soil as soil that registers an organic vapor concentration of 50 parts per million by volume within 3 inches of the soil surface using an organic vapor analyzer (OVA), such as a photoionization detector (PID), calibrated to hexane. If VOC-contaminated soil is expected to be disturbed at a site, an approved "VOC-Contaminated Soil Mitigation Plan" is required. Site-specific or "various locations" plans are acceptable, although under the latter, no more than 2,000 cubic yards of VOC-contaminated soil can be excavated in any consecutive 12-month period at the same site. Due to the documented presence of VOCs in the soil and soil vapor at the site, albeit at very low concentrations, and the planned removal of a small volume of naphthalene-impacted soil, this SMP requires the following:

- The removal of naphthalene-impacted soil should be covered by an SCAQMD-approved Rule 1166 VOC-Contaminated Soil Mitigation Plan. As the volume, if any, of VOC-contaminated soil, as defined by SCAQMD Rule 1166, is unlikely to exceed 2,000 cubic yards, a Various Locations Rule 1166 plan will suffice. A copy of Avocet's current Various Locations Compliance Plan is included as Appendix B to this SMP. If it becomes clear or likely that the volume of VOC-contaminated soil, as defined by SCAQMD Rule 1166, to be excavated will exceed 2,000 cubic yards, a site-specific VOC-Contaminated Soil Mitigation Plan should be secured from SCAQMD. Among other things, both types of plan involve SCAQMD notifications, the periodic measurement of VOC concentrations emanating from impacted soil, vapor suppression measures for *in-situ* and stockpiled soil, and reporting. These requirements are described at the appropriate location in subsequent sections of this SMP.

- SCAQMD must be notified at least 24 hours prior to the start of excavation work to remove naphthalene-impacted soil. Notification involves completing an online "Rule 1166 Notification Form" and payment of SCAQMD's notification fee, which must be sent within 48 hours of the notification. The notification will include the planned start date and the duration of the excavation effort. SCAQMD will provide Avocet a "Reference Number," which will be included in subsequent correspondence with SCAQMD pertaining to the excavation and in all related Rule 1166 monitoring reports.

- If excavation does not begin on the start date provided to SCAQMD, renotification is required unless an alternate agreement has been made.

If VOC-contaminated soil, as defined by SCAQMD, is not encountered during removal of naphthalene-impacted soil, it is not likely to be encountered elsewhere at the site during general grading. As such, this SMP does not require that general grading activities be covered by an approved VOC-Contaminated Soil Mitigation Plan. However, this SMP does require the general grading contractor to:

- Stop grading or excavating if visibly impacted or odorous soil is encountered in a particular area during general grading, although grading and/or excavation may continue in other areas of the site.

- Immediately notify Avocet and Panattoni that visibly impacted soil has been encountered so that it can be evaluated by suitably qualified personnel to determine whether SCAQMD Rule 1166 notification and monitoring is required.

2.2 SCAQMD RULE 1466 COMPLIANCE

SCAQMD Rule 1466 regulates emissions of toxic air contaminants to ambient air while performing earth-moving activities, including excavating, grading, handling, treating, stockpiling, transferring, and removing soil that contains applicable toxic air contaminants. Rule 1166 includes a list of toxic air contaminants, but as VOC emissions are addressed by SCAQMD Rule 1166, VOCs, including naphthalene, are specifically excluded from Rule 1466. Moreover, Rule 1466 is only applicable to sites being regulated or otherwise overseen by a federal, state, or local regulatory agency. Based on the above, SCAQMD Rule 1466 does not apply to the subject site but some of its requirements, such as for wetting soil to minimize dust, will be followed regardless.

2.3 SCAQMD RULE 403 COMPLIANCE

SCAQMD Rule 403 is intended to reduce the amount of particulate matter entrained in ambient air as a result of anthropogenic (man-made) fugitive dust sources and, as such, applies to demolition and redevelopment grading operations throughout the entire site, regardless of whether the soil is contaminated. Rule 403 requires actions to prevent, reduce, or mitigate fugitive dust emissions and to prevent dust generated onsite from migrating offsite and/or obstructing visibility in the area around the site. A copy of SCAQMD Rule 403 is included in Appendix C, although notable provisions included in this SMP are as follows:

- Emissions of fugitive dust will be controlled to ensure that no dust remains visible beyond the site boundary and that dust emissions, if any, within the site boundary do not exceed 20 percent opacity.

- Best available control measures, as described in Table 1 of SCAQMD Rule 403 (Appendix C), will be utilized during pre-grading activities at the site.

- During pre-grading activities, PM_{10} levels will be monitored simultaneously at an upwind and downwind location, and dust mitigation measures will be implemented, as necessary, to keep the difference between these measurements at 50 $\mu g/m^3$ or less.

- The measurement frequency and maintenance of sampling equipment will be as described in paragraph (d)(3) of SCAQMD Rule 403.

Certain operations, such as activities conducted by a grading contractor, are subject to exception (g)(1) from the provisions in SCAQMD Rule 403.

2.4 STANDARD CONSTRUCTION PROCEDURES

Nothing in this SMP should be interpreted as relieving CP Logistics Vineyard, LLC, its contractors, or any other entity of their responsibly to follow standard construction procedures that may or may not be related to subsurface environmental conditions. Examples of such responsibilities include, but are not limited to, site safety, obtaining the necessary permits for the project, construction dust control, construction stormwater management, evaluating excavation stability, and the like. In particular, this SMP requires that, in accordance with state law, Underground Service Alert of Southern California, aka DigAlert, must be notified a minimum of two full days prior to excavation at the site so the appropriate utility companies have the opportunity to mark the locations of subsurface infrastructure, if any, beneath the site. DigAlert may be contacted by telephone by dialing 811 or (800) 422-4133 or online at www.newtinb.digalert.org/direct.

3.0 FIELD AND RELATED PROCEDURES

General SMP field procedures include screening disturbed soil for indications of contamination, characterizing suspected impacts, and managing disturbed soil with confirmed impacts.

3.1 FIELD SOIL SCREENING

Screening is required whenever potentially impacted soil is disturbed in a qualifying excavation (Section 1.4) within project limits. Intermittent or periodic field soil screening is also recommended when soil from an offsite residential or greenfield borrow source is being imported. Field screening disturbed soil for indications of contamination will involve visual and olfactory observation and screening for organic vapors using a properly calibrated PID or equivalent OVA. Indications of potential contamination might include, but not be limited to, the following:

- Soil discoloration or staining when compared to the natural color of soil exposed elsewhere within the project limits, especially discoloration or staining in proximity to a potential contaminant source, such as subsurface infrastructure.
- Saturated or excessively moist soils when compared to the natural moisture content of soil exposed elsewhere within the project limits.
- Odors in ambient air when soil is disturbed. It is noted in this regard that soil should not be held close to the nose to determine whether odors are present.
- Elevated PID/OVA readings indicating the presence of organic vapors.
- Soils containing pieces of pipe, tile, or other debris that may be asbestos-containing material.

This SMP requires that if any of the above conditions are encountered, the soil disturbing activity be suspended and that contractor personnel notify Avocet immediately.

3.2 *IN-SITU* SOIL CHARACTERIZATION

If impacted soil is encountered or suspected during excavation, it may be appropriate, prior to disturbing additional soil, to collect one or more representative *in-situ* soil samples for laboratory analysis to assess whether and what type(s) of contamination may be present. The scope of *in-situ* soil sampling is highly dependent on the location-specific conditions, but in general, samples for laboratory analysis should be collected, preserved, and managed in accordance with industry-standard procedures, including sample chain of custody. The types of analyses to be conducted are similarly highly dependent on the location-specific conditions, but based on the site's history, soil sample analyses should, at a minimum, include:

- TPH with carbon-chain speciation using EPA Method 8105M CC
- VOCs, including fuel oxygenates, using EPA Method 5035/8260B

- Title 22 metals using EPA Method 6010B/7471A
- OCPs using EPA Method 8081A (Merchant Landscape property only)

Additional analyses, such as for polychlorinated biphenyls (PCBs), semivolatile organic compounds (SVOCs), and/or organic lead, may be warranted based on the conditions observed at the site and the results of the analyses listed above.

3.3 EXCAVATION, STOCKPILING, AND DUST CONTROL

If impacted soil or soil suspected of being impacted is excavated, it should be stockpiled on heavy-duty polyethylene sheeting until it has been characterized to determine whether it can be reused onsite or must be transported offsite for treatment or disposal. Stockpiles of contaminated soil must also be covered with heavy-duty polyethylene sheeting or other covering to minimize emissions to the atmosphere for any period of inactivity lasting more than one hour. As good practice, Avocet recommends that stockpiles of potentially contaminated soil be covered and managed as contaminated until sampling and analysis shows otherwise. The following provides general and generic guidance on excavation, segregation, and related dust control procedures.

- During excavation, potentially impacted soil, when encountered, should be segregated, to the extent practical, from soil judged to be "clean." Obviously-stained/odorous/impacted soil should be "surgically" removed and stockpiled separately. Segregation may be based on the soil's appearance, PID readings, or similar.

- To the extent practical, foreign objects such as construction or other debris should be segregated from potentially impacted soil to simplify its subsequent management.

- Potentially impacted soil with different characteristics should be segregated and stockpiled separately in discrete stockpiles. This may result in additional stockpile assessment costs but can prevent cross-contamination between stockpiles, resulting in more soil than necessary having to be transported offsite.

- To minimize the potential for a small volume of contaminated material to impact a large stockpile, resulting in increased disposal costs, the size of any individual stockpile should be limited to no more than 400 cubic yards.

- Impacted soil or suspected impacted soil should be stockpiled on heavy-duty polyethylene sheeting and covered with the same to minimize potential contaminant volatilization to the atmosphere or dispersion via wind or precipitation. Adjoining sheets of polyethylene should overlap by at least 3 feet.

- Stockpile covers should be weighted down with sandbags or similar to prevent the cover being blown off or damaged during windy conditions.

- Covered stockpiles should be surrounded, as necessary, by straw rolls, straw bales, or similar to minimize the potential for eroded sediment to be transported beyond the stockpile area.

- Covered stockpiles should be inspected on a daily basis and the covers repaired, replaced, adjusted, or supplemented. An example of a "Stockpile Inspection Record" form is included in Appendix D to this SMP.

- If odors or dust are detectable at the site boundary during the placement or removal of contaminated soil stockpiles, the "active" stockpile surface should be misted or lightly sprayed with water to minimize dust generation and odors in ambient air. Misting or lightly spraying newly cut and exposed soil surfaces may also be appropriate.

It is noted that if impacted soil has been characterized *in-situ* (Section 3.2) and the ultimate disposition of the impacted material has been established, excavated material may be "direct loaded" into trucks for offsite disposal or treatment, thereby bypassing the stockpiling process.

3.4 STOCKPILE SAMPLING

Stockpiled soil should be sampled to obtain representative data and determine its ultimate disposition, including onsite reuse and offsite disposal or recycling. To ensure the analytical results are representative of the entire stockpile, samples should be collected at multiple locations and at different depths into the stockpile. Samples should not be collected less than 6 inches into the stockpile to help avoid potentially underestimating VOC concentrations. The number of stockpile samples to be collected may differ depending on the intended disposition of the excavated soils (onsite reuse versus offsite disposal), and different soil disposal facilities may have different requirements in terms of the number of samples to be analyzed and the analytical parameters. In broad terms, however, the number of stockpile samples collected for analysis should be proportional to the volume of the stockpile. Guidance on the minimum number of stockpile samples to be collected is as follows:

- Collect a minimum of one discrete sample for every 50 cubic yards in stockpiles up to 200 cubic yards.

- Collect one additional sample for each additional 100 cubic yards up to a maximum volume of 400 cubic yards. Thus, a 400-cubic-yard stockpile would require six discrete samples, as follows:

Four for the first 200 cubic yards		= 4
One for the next two 100 cubic yards		= 2
	Total	**= 6**

The discrete stockpile samples may be combined into a composite sample prior to analysis; however, the discrete samples should be composited in and by the analytical laboratory, as opposed to in the field. Moreover, the remainder of the discrete sample material should be held at the

laboratory until the results of the composite sample analyses have been received and evaluated so that the discrete samples can, if warranted, be analyzed individually. Composite stockpile samples should, at a minimum, be analyzed for:

- TPH with carbon chain speciation using EPA Method 8105M CC
- VOCs, including fuel oxygenates, using EPA Method 5035/8260B
- Title 22 metals using EPA Method 6010B/7471A
- OCPs using EPA Method 8081A (Merchant Landscape property only)

Additional analyses, such as for PCBs, SVOCs, and organic lead, may be warranted based on the conditions observed at the site and the results of the analyses listed above.

The results of the stockpile sample analyses should be compared to the screening levels specified in Section 1.3. If the concentrations of any contaminant exceed commercial/industrial screening levels, the stockpiled soil should be transported offsite for disposal or treatment. However, if the screening process indicates that a large volume of soil must be transported offsite for disposal, it may be appropriate to develop less conservative, site-specific, risk-based screening levels for regulatory agency approval.

3.5 Confirmation Soil Sampling

On completion of an excavation from which impacted soil has been removed, confirmation soil samples should be collected from the floor and/or sidewalls to assess residual contaminant concentrations prior to the excavation being backfilled. The scope of the confirmation sampling effort will be highly dependent on the location-specific conditions, but in general, samples for laboratory analysis should be collected from the floor and sidewalls of the excavation, preserved, and managed in accordance with industry-standard procedures, including sample chain of custody. The types of analyses to be conducted are similarly highly dependent on the location-specific conditions, but based on the site's history, the analyses should, at a minimum, include:

- TPH with carbon chain speciation using EPA Method 8105M CC
- VOCs, including fuel oxygenates, using EPA Method 5035/8260B
- Title 22 metals using EPA Method 6010B/7471A
- OCPs using EPA Method 8081A (Merchant Landscape property only)

Additional analyses, such as for PCBs, SVOCs, and organic lead, may be warranted based on the conditions observed at the site and the results of the analyses listed above.

3.6 Truck Loading

If impacted soil cannot be utilized onsite, it should be transported offsite for treatment or disposal. When loading trucks with impacted material for offsite treatment or disposal, the following general procedures should be followed:

- Mist or lightly water the impacted soil when placing it in trucks or bins.
- Minimize "drop heights" when loading trucks or bins.
- Impacted soil in trucks should be covered with tarpaulins or similar prior to leaving the site.
- Prior to leaving the site, trucks and bins should be thoroughly inspected, particularly truck wheels and undercarriages, to ensure there is no loose dirt that may fall off onto public streets.
- Public streets near the site used by trucks transporting impacted soil offsite should be inspected on a daily basis for debris and/or dust accumulations and swept, as necessary.

Trucks and bins may be filled with stockpiled material or direct loaded once an impact has been confirmed and characterized. Proper documentation related to material transported offsite should be maintained, including hazardous and nonhazardous waste manifests, bills of lading, scale tickets, and/or disposal facility receipts.

3.7 IMPORTED FILL CHARACTERIZATION

If fill is imported to the site, its origin and geotechnical properties must be known and the potential for contamination must be evaluated by Panattoni's environmental team prior to its importation. Options for imported fill include, but may not be limited to, the following:

- Fill may be imported from residential sources without any supporting analytical data. Residential borrow sources must never have been used for agriculture or commercial/industrial purposes and they should not directly border agriculture or commercial/industrial properties.
- Fill may be imported from nonresidential "greenfield" sources, such as commercial quarries or gravel pits, provided the operator provides appropriate analytical data of an affirmative statement to the effect that the material being supplied is suitable for unrestricted use at residential properties. The operator should provide the appropriate documentation to the Panattoni environmental team prior to importing the fill.
- Fill material may be imported from other sources subject to Panattoni's review of the source and representative analytical data. At a minimum, previous environmental and geotechnical reports as well as analytical data for TPH, VOCs, and Title 22 metals will be required, but depending on the source, additional analytical data may be required. Analytical data for imported fill, if any, should be included in project documentation, as outlined in Section 4.0.

Sampling requirements for imported fill are based on DTSC guidance and are as follows:

Import Volume	**Sample Requirement**
First 1,000 cubic yards	1 sample per 250 cubic yards (4 max.)
2,000 to 5,000 cubic yards	1 sample per each additional 500 cubic yards
More than 5,000 cubic yards	1 sample per each additional 1,000 cubic yards

Potential import fill material containing contaminant concentrations above residential screening levels (Section 1.3) should not be used onsite under any circumstances. Fill material imported to the site without having been evaluated and approved by Panattoni should be turned away.

4.0 RECORD KEEPING AND REPORTING

All of the records mentioned in the preceding sections of this SMP should be maintained for inclusion in a site redevelopment report, or similar, to be prepared on substantial completion of the redevelopment effort. At a minimum, the site redevelopment report should include the following:

- A summary of relevant background information and narrative descriptions of field and laboratory procedures.
- Summaries of the soil impacts encountered at the site, if any, and their ultimate disposition, including location information, estimated volumes, in-situ characterization data (if any), the volume of soil removed, the results of confirmation soil sample analyses, and the disposition of the removed soil. If the removed soil is reused onsite, its approximate onsite location should also be documented to the extent practical.
- Summaries of soil, if any, imported to the site, including sources(s), supporting analytical data, and, to the extent practical, where at the site the imported soil was placed.
- A summary of post-development site conditions and an evaluation of potential hazards, if any, that could be encountered by future site occupants or workers involved in site maintenance or other activities that could involve soil disturbance.
- Tables, figures, and appendices, as necessary. Tables will include summaries of analytical data, the volumes of soil exported and their ultimate dispositions, and the volumes of soil imported to the site. Figures will show excavation locations. Attachments to the site redevelopment report will include stockpile management data, laboratory analytical reports, waste manifests, and the like. SCAQMD notifications and monitoring data also will be attached.

The site redevelopment report will also include an evaluation of whether a revised SMP may be required for the post-development period.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

REGISTERED PROFESSIONAL ENGINEER
PHILIP MILLER
C 42600
CIVIL
STATE OF CALIFORNIA

Philip Miller, P.E.
Principal

Signed and ~~sealed~~ June 4, 2021

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Figures

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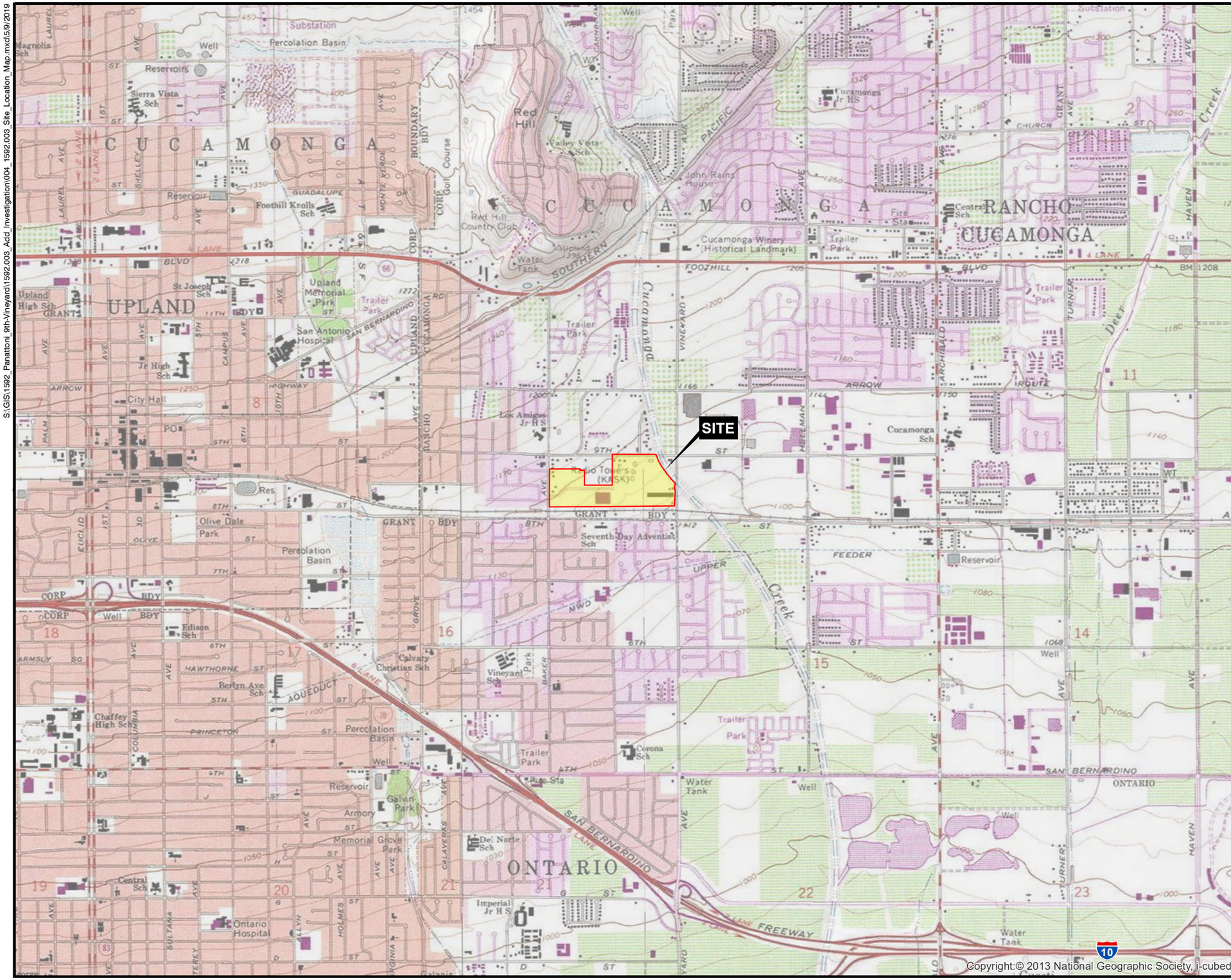
S:\GIS\1592_Panattoni_9th-Vineyard\1592.003_Add_Investigation\004_1592.003_Site_Location_Map.mxd\5/9/2019



VICINITY MAP

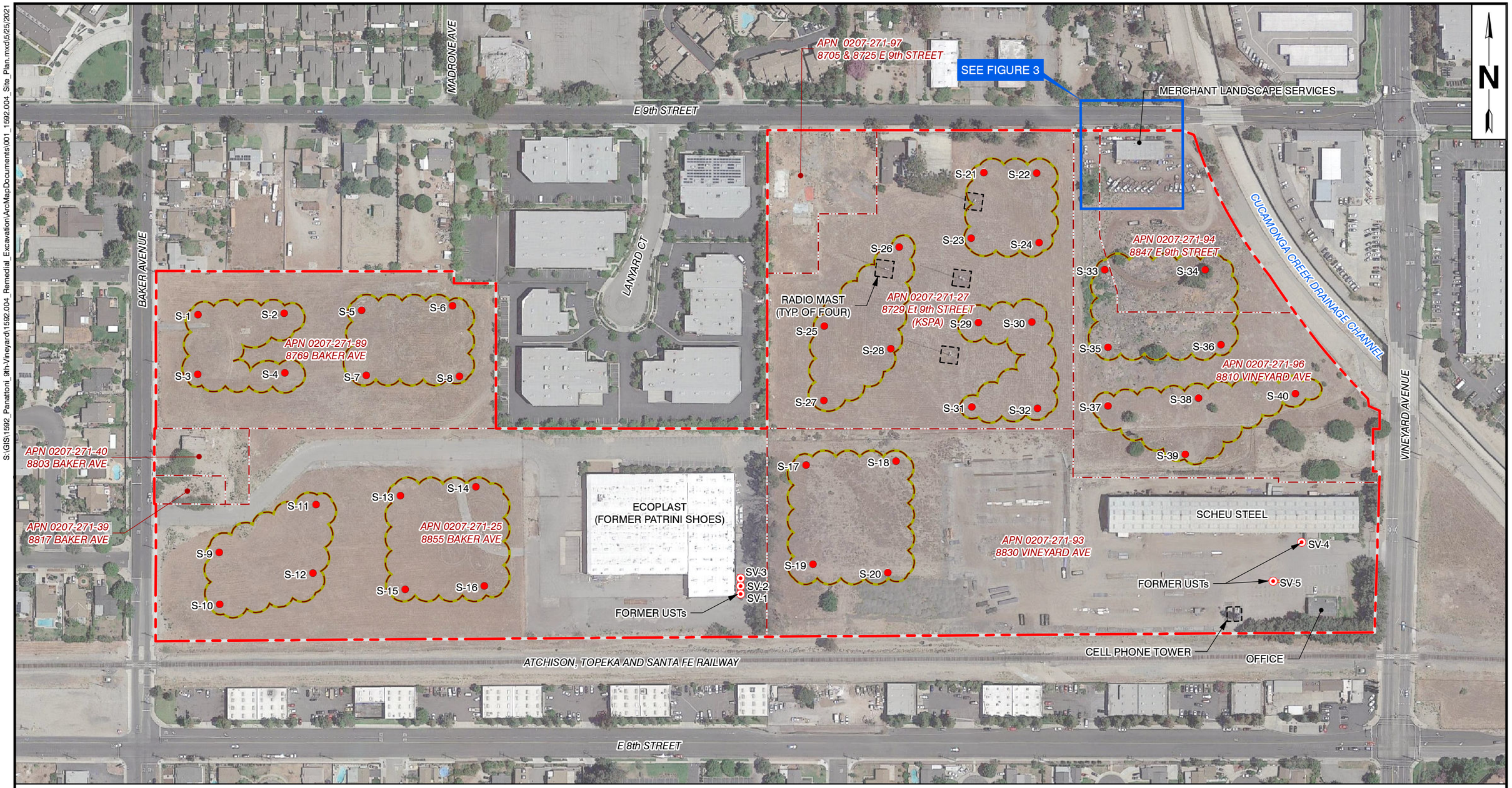
0 1,000 2,000 4,000 FEET

FIGURE 1

SITE LOCATION MAP

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.



EXPLANATION

- SURFACE SOIL SAMPLE
- BORING
- SITE BOUNDARY
- PARCEL BOUNDARY
- FORMER UST (APPROXIMATE)

0 200 400 Feet

REFERENCE:
USGS AERIAL PHOTOGRAPH
DATED: JUNE 8, 2018

FIGURE 2

SITE PLAN

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONGA, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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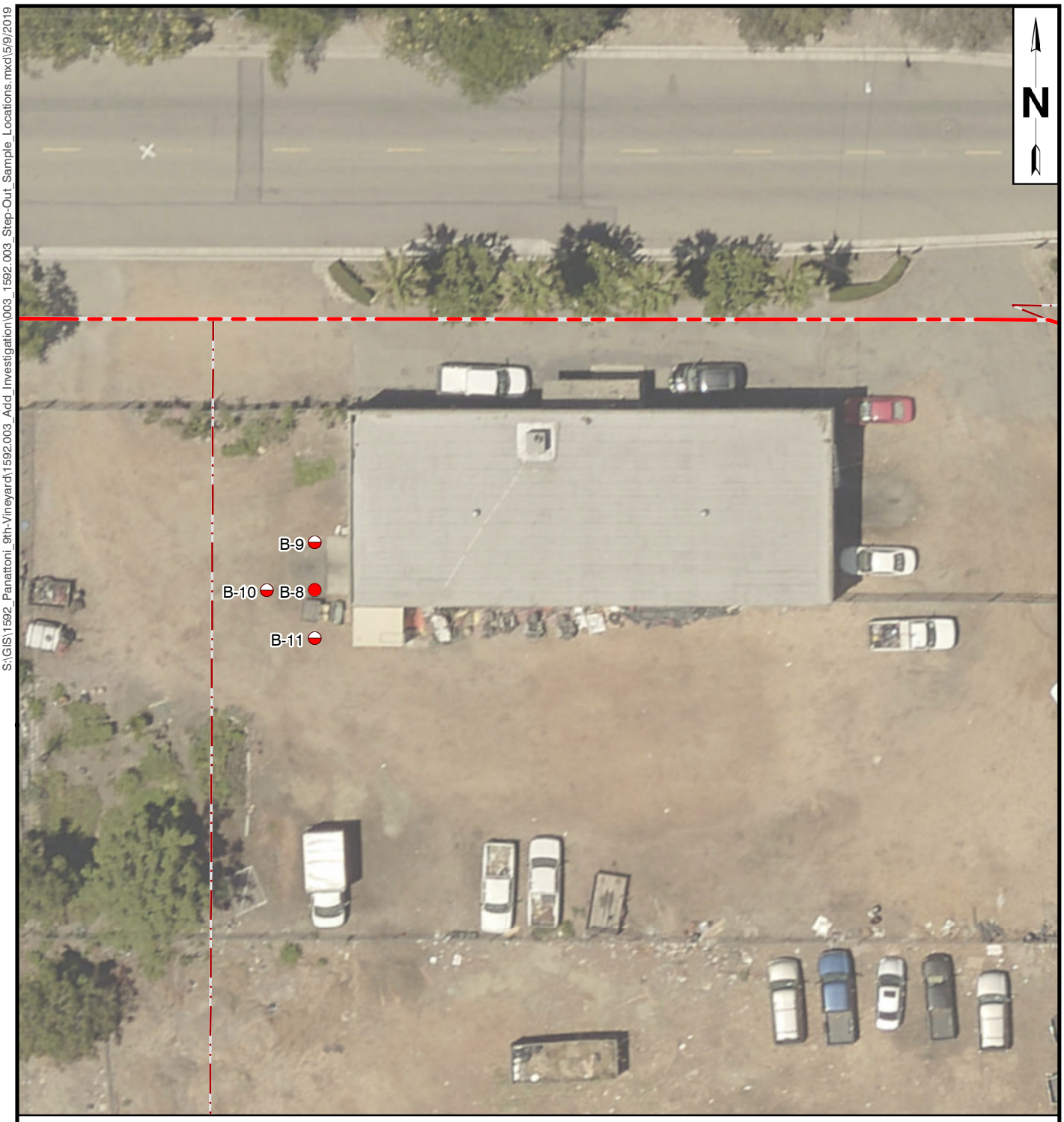

EXPLANATION

- SURFACE SOIL SAMPLE
- STEP-OUT SAMPLE
- SITE BOUNDARY
- PARCEL BOUNDARY

0 30 60 Feet

FIGURE 3

STEP-OUT SAMPLE LOCATIONS

SWC 9th ST & VINEYARD AVE
RANCHO CUCAMONG, CALIFORNIA

SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

AVOCET ENVIRONMENTAL, INC.

Appendix A

SCAQMD Rule 1166

AVOCET
ENVIRONMENTAL, INC.

(Adopted August 5, 1988)(Amended July 14, 1995)(Amended May 11, 2001)

RULE 1166. VOLATILE ORGANIC COMPOUND EMISSIONS FROM DECONTAMINATION OF SOIL

(a) Applicability

This rule sets requirements to control the emission of Volatile Organic Compounds (VOC) from excavating, grading, handling and treating VOC-contaminated soil as a result of leakage from storage or transfer operations, accidental spillage, or other deposition.

(b) Definitions

(1) EXCAVATION is the process of digging out and removing materials, including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.

(2) GRADING is the process of leveling off to produce a smooth surface including the removal of any material necessary to that process such as asphalt and concrete necessary to expose known VOC contaminated soil.

(3) SOIL DECONTAMINATION MEASURE is any process approved by the Executive Officer to remediate, destroy, remove, or encapsulate VOC and VOC-contaminated soil.

(4) UNDERGROUND STORAGE TANK means any one or combination of tanks, including pipes connected thereto, which is used for the storage of organic liquid which is more than 50% beneath the surface of the ground.

(5) VOC CONTAMINATED SOIL is a soil which registers a concentration of 50 ppm or greater of Volatile Organic Compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.

(6) VOC CONTAMINATED SOIL MITIGATION PLAN is a plan to minimize VOC emissions to the atmosphere during excavation and any subsequent handling of VOC-contaminated soil.

(7) VOLATILE ORGANIC COMPOUND (VOC) is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds are defined in Rule 102—Definition Of Terms.

(8) VOLATILE ORGANIC MATERIALS include gasoline, diesel, crude oil, lubricant, waste oil, adhesive, paint, stain, solvent, resin, monomer, and/or any other material containing VOC.

(c) Requirements

(1) A person excavating an underground storage tank and/or transfer piping storing or previously storing VOC materials, or excavating or grading soil containing VOC materials shall:

(A) Apply for, obtain and operate pursuant to a mitigation plan approved by the Executive Officer prior to commencement of excavation or handling. The mitigation plan general requirement and application requirements are found in Attachment A to this rule. A copy of the approved plan must be on site during the entire excavation period.

(B) Notify the Executive Officer at least 24 hours prior to excavation using a form approved by the Executive Officer which is fully completed.

If the excavation does not commence on start date, renotification is required.

An alternative notification procedure may be authorized for multiple excavations within a single facility, with prior written approval from the Executive Officer.

(C) Monitor for VOC contamination pursuant to subdivision (e), at least once every 15 minutes commencing at the beginning of excavation or grading and record all VOC concentration readings in a format approved by the Executive Officer; and

(D) When VOC-contaminated soil is detected during excavation or grading:

(i) Implement the approved mitigation plan (Attachment A).

(ii) Notify the Executive Officer within 24 hours of detection of VOC-contaminated soil.

(iii) Monitor and record VOC concentration readings as prescribed in the plan. Monitoring records must be kept available on site.

(iv) Keep calibration records for all monitoring instruments available on site.

(2) A person handling VOC-contaminated soil at or from an excavation or grading site shall:

(A) Segregate VOC-contaminated stockpiles from non-VOC contaminated stockpiles such that mixing of the stockpiles does not take place.

(B) Spray VOC-contaminated soil stockpiles with water and/or approved vapor suppressant and cover them with plastic sheeting for all periods of inactivity lasting more than one hour.

(C) Conduct a daily visual inspection of all covered VOC contaminated soil stockpiles to ensure the integrity of the plastic covered surfaces. A daily inspection record must be maintained on site.

(D) Comply with the provisions in subparagraph (c) (1)(A) and clause (c)(1)(D)(i).

(E) Maintain a record of the identification and business addresses of the generator, transporter and storage/treatment facilities. Such record shall be signed by each party at the time custody is transferred.

(F) Treat or remove contaminated soil from an excavation or grading site within 30 days from the time of excavation.

(3) If the VOC concentration in the excavated soil is measured at greater than 1000 ppm, spray the soil with water or vapor suppressant and:

(A) As soon as possible, but not more than 15 minutes, place the soil in sealed containers, or

(B) As soon as possible, but not more than 15 minutes, load into trucks, moisten with additional water, cover and transport off site, or

(C) Implement other alternative storage methods approved in writing by the Executive Officer.

(4) A person treating VOC-contaminated soil shall:

(A) Obtain a permit to construct and operate treatment equipment, as applicable, from the Executive Officer, and

(B) Implement VOC-contaminated soil decontamination measures, as approved by the Executive Officer in writing, which result in Best Available Control Technology applied during all segments, and which include, but are not limited to, at least one of the following:

(i) Installation and operation of an underground VOC collection system and a disposal system prior to excavation.

(ii) Collection and disposal of the VOC from the excavated soil on-site using equipment approved by the Executive Officer.

(iii) Any equivalent VOC-contaminated soil control measure previously approved in writing by the Executive Officer.

(5) A person shall not engage in or allow any on-site or off-site spreading, grading or screening of VOC-contaminated soil, which results in uncontrolled evaporation of VOC to the atmosphere.

(6) Loading trucks for contaminated soil must meet the following:

(A) The truck and trailer shall be adequately tarped prior to leaving the site; no excavated materials shall extend above the sides or rear of the truck or trailer to prevent soil spillage during transport, and

(B) The exterior of the truck, trailer and tires shall be cleaned off prior to the truck leaving the site.

(d) Exemptions

(1) The provisions of this rule shall not apply to the following:

(A) Excavation, handling, and treating of less than one (1) cubic yard of contaminated soil.

(B) Removal of soil for sampling purposes.

(C) Accidental spillage of five (5) gallons or less of VOC containing material.

(2) The provisions of paragraphs (c)(1) and (c)(2) shall not apply to soil excavation or handling as a result of an emergency as declared by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer. Whenever possible, the Executive Officer shall be notified by telephone prior to commencing such excavation. The Executive Officer shall be notified in writing no later than 48 hours following such excavation. Written notification shall include written emergency declaration from the authorized officer.

(e) Test Methods

(1) A person shall measure excavated soils for volatile organic compounds to determine contamination by:

(A) Using an organic vapor analyzer calibrated with hexane, complying with 40 CFR Part 60 Appendix A, EPA Reference Method 21 Section 3 or any equivalent method with prior approval in writing by the Executive Officer. If other calibrating gases are used, then the measured readings shall be correlated to and expressed as hexane.

(B) Placing the probe inlet at a distance of no more than three inches from the surface of the excavated soil and while slowly moving the probe across the soil surface, observe the instrument readout. If an increased meter reading is observed, continue to sample the excavated soil until the maximum meter reading is obtained. Leave the probe inlet at this maximum reading location for approximately double the instrument response time. If the maximum observed meter reading is greater than the 50 ppm standard in the regulation, record and report the results.

(2) The presence of VOC in stored or spillage materials shall be determined by SCAQMD Method 313 [Determination of Presence of Volatile Organic Compounds (VOC) in Headspace] and/or Method 304 (Determination of Volatile Organic Compounds in Various Materials) contained in the SCAQMD "Laboratory Methods of Analysis for Enforcement Samples" manual.

(f) Enforcement

(1) Violation of any provision of this rule or the violation of the approved mitigation plan shall be grounds for the Executive Officer to amend or revoke the mitigation plan, in addition to penalties provided by the Health & Safety Code.

(2) If the owner or operator is served with a Notice of Violation for creating a public nuisance, the owner or operator shall suspend operation until the public nuisance is mitigated to the satisfaction of the Executive Officer.

ATTACHMENT A
GENERAL MITIGATION PLANS REQUIREMENTS

VOC Contaminated Soil Mitigation Plans shall be written to minimize VOC emissions to the atmosphere during excavation, grading, handling and treatment of VOC contaminated soil. VOC Contaminated Soil Mitigation Plans shall consist of three types: Various Locations, Site Specific and Facility Treatment.

(1) General Requirements

(A) A plan is not transferable.

(B) A person responsible for the excavation, grading or handling of VOC contaminated soil must be completely familiar with the plan and must adhere to the plan requirement. The Executive Officer may require that the plan be signed by the owner and/or operator.

(C) A plan may be amended upon renewal.

(D) Permission to excavate, grade or handle VOC contaminated soil may be withdrawn by the District upon a finding by the Executive Officer that the excavation, grading or handling of the VOC contaminated soil is causing a public nuisance or violating other AQMD rules or regulations.

(2) Various Location Plans:

(A) Shall be limited to the excavation of 2000 cubic yards or less of VOC contaminated soil in any consecutive 12 month period at the same site.

(B) Shall not be used in conjunction with any other various location plan at the same site within a consecutive 12-month period.

(C) Shall expire after one year from issuance unless renewed.

(D) Shall not be issued for nor used for operations that involve grading, soil treatment or remediation, or landfills.

(3) Site Specific Plans:

(A) Shall be for excavation of greater than 2000 cubic yards of VOC contaminated soil.

(B) Shall be issued for specific excavation or grading locations for a period not to exceed two years.

(C) Shall not be renewable.

(4) Facility Treatment Plans:

(A) Shall be issued for a treatment facility at a permanent location.

(B) Shall expire after one year from issuance unless renewed.

(5) Applications for Site Specific Plans shall contain as a minimum:

(A) Reasons for excavation or grading.

(B) Cause of VOC soil contamination and history of the site.

(C) Description of tanks or piping associated with the soil contamination.

(D) An estimate of the amount of contaminated soil.

(E) The operating schedule for excavation and removal.

(F) Description of how the excavation or grading will be conducted.

(G) Description of mitigation measures for dust, odors and VOC.

(H) Details of disposal of VOC contaminated soil, including the ultimate receptor.

(I) Description of monitoring equipment and techniques.

(J) A map showing the facility layout, property line, and surrounding area up to 2500 feet away, and including any schools, residential areas or other sensitive receptors such as hospitals or locations where children or elderly people live or work.

(K) Designation of a person who can conduct a site inspection with the Executive Officer prior to issuance of the plan.

(6) Applications for Facility Treatment Plans shall at a minimum:

(A) Include a list of all AQMD permits to construct or operate which have been issued for that treatment and control equipment.

(B) Provide for the implementation of VOC-contaminated soil decontamination measures, as approved by the Executive Officer in writing, which result in Best Available Control Technology during all operations.

(C) Provide a map showing the facility layout including the location of all proposed VOC and non-VOC contaminated soil stockpiles.

(D) Specify the total amount of VOC contaminated soil proposed to be stockpiled on site.

(E) Provide for VOC contaminated soil stockpiles to be kept moist with water or suppressant and be covered to prevent fugitive emissions.

(F) Provide for VOC contaminated soil stockpiles to be segregated from non-VOC contaminated soil stockpiles.

(G) Provide for maintenance of records for stockpiles according to the source name, address and dates of reception.

(H) Provide for records of the generator, transporter and storage/treatment facilities and indicate their identification and business addresses. Such records shall be signed by each party at the time custody is transferred.

(I) Provide a map showing the facility layout, property line, and surrounding area up to 2500 feet away, and including any schools, residential area or other sensitive receptors such as hospitals, or locations where children or elderly people live or work.

(J) Designation of a person who can conduct a site inspection with the Executive Officer prior to issuance of the plan.

(K) Specify the operating schedule and maximum amount of VOC-contaminated soil proposed to be remediated on a daily basis.

(7) In approving a plan, the Executive Officer require reasonable conditions deemed necessary to ensure the operations comply with the plan and AQMD rules. The conditions may include, but shall not be limited to, procedures for ensuring responsibility for the implementation of the plan, accessibility to the site for AQMD staff, notification of actions required by the plan, identification of emission receptors, monitoring and testing, suppression and covering of stockpiles, prevention of public nuisance from VOC or dust emissions, prevention of fugitive emissions of VOC contaminated soil, loading of truck trailers, and disposal and treatment.

(8) In approving a plan, the Executive Officer may require any records deemed necessary to be maintained by the operator to demonstrate compliance with the plan. Such records shall be retained for at least 2 years and be made available to the Executive officer upon request.

Appendix B

Various Locations Rule 1166 Plan

AVOCET
ENVIRONMENTAL, INC.

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

COMPLIANCE PLAN

This plan must be renewed annually and is subject to annual renewal fees pursuant to Rule 306 (h).

Plan Issue Date: 7/16/2015 ID 142207

Company: AVOCET ENVIRONMENTAL, INC.
1 TECHNOLOGY DR, STE C515
IRVINE, CA 92618

Site Location: VARIOUS LOCATIONS IN SCAQMD

Conditions:

The operation under this Rule 1166 has been conditionally approved and is subject to the following conditions:

SECTION I - GENERAL REQUIREMENTS

1. A signed copy of this plan shall be present at each excavation site at all times and shall be made available to SCAQMD personnel upon request.

2. This plan is not valid for the excavation of VOC contaminated soils at landfills or sites used for disposal of refuse or other types of waste.

3. This plan does not allow the treatment of VOC-contaminated soil by thermal, chemical, or mechanical processes. Any of the above treatment processes requires a permit to operate from the SCAQMD and a site-specific Rule 1166 plan.

4. This plan does not allow back-filling of treated VOC contaminated soil. Back-filling of treated VOC contaminated soil may be allowed under a site specific Rule 1166 plan.

5. The total quantity of VOC contaminated soil excavated and handled at each site shall not exceed 2,000 cubic yards. This total includes any VOC contaminated soils excavated from this location under a various location plan within the last twelve (12) calendar months. Excavations involving quantities in excess of 2,000 cubic yards of VOC contaminated soil requires the application submittal and approval of a site specific Rule 1166 excavation plan.

6. For the purposes of Rule 1166 and this plan, soil measured pursuant to Rule 1166 as VOC contaminated soil, is considered as VOC contaminated soil from the time of measurement onward, until the soil is treated pursuant to an approved SCAQMD treatment process.

7. During each step of the process up to and including the removal and disposal process, all precautions and measures shall be taken to minimize the release of VOC, odor and dust. This includes, but is not limited to:

   A. The use of additional plastic sheeting or suppressants on exposed soil surfaces and work areas,

   B. Maintaining paved public streets free of soil deposits, and

   C. Operating such that VOC soil shall not be spread on-site or off-site; and not performing any unnecessary movement or agitation of soil, including the reshaping or relocation of stockpiles, that may cause the uncontrolled evaporation of VOCs into the atmosphere.

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8. The SCAQMD shall be immediately notified of any complaints received as a result of activities conducted under this plan. Such notification shall include the nature of the complaint, number of complainants and the action taken by the plan holder to mitigate the source of the complaint.

SECTION II - PRIOR TO EXCAVATION

9. At least 24 hours prior to commencing excavation or grading of soil at the site, the executive officer or designee shall be notified of the excavation by fax using a form approved by the executive officer which is fully completed and including, the name of the company performing the excavation, and the application number listed on this mitigation plan. The notification shall be made by faxing the notification form at (909) 396-3342. Fax notifications will receive a reference number by return fax or can be obtained referencing the fax notification by phone Tuesday through Friday during business hours at (909) 396-2326. The reference number shall be retained as proof of compliance with this requirement.

Reference Number: Notification Date:

10. Complete verification information in Attachment section and obtain required signatures, prior to commencing excavation.

SECTION III - MONITORING

11. All monitoring shall be conducted by trained personnel who are proficient in the use of the hydrocarbon monitor selected for use at this site.

12. During the excavation process, an organic vapor analyzer (OVA) shall be on site at all times. The OVA shall be maintained in good working order at all times and shall be calibrated by the manufacturer at least once every three months. The calibration of the OVA shall be verified using certified calibration gas at the beginning of each working day with the procedures specified by the manufacturer. If a calibration gas other than hexane is used, each measured reading shall be correlated to and expressed as hexane, using equivalency factors provided by the manufacturer.

13. All monitoring shall be conducted at a distance no more than 3 inches above the soil surface using an OVA described in condition no. 12 above. Monitoring shall be conducted at a minimum frequency of one reading for every two cubic yards of soil excavated, not to exceed fifteen minutes between readings. All readings shall be taken no later than three (3) minutes after each load of soil is excavated.

14. Written records of OVA monitoring and calibrations required above shall be kept in a format approved by the SCAQMD. The approved format is included in the attachment section (total 6 pages). The certification on all records shall be signed and dated on the day the measurements are observed.

15. Upon detection of VOC contaminated soil (readings 50 PPMV or greater), the executive officer or designee shall be notified within 24 hours of the first detection of VOC contamination. The notification shall be made by faxing the notification form to (909) 396-3342 or calling (909) 396-2326. A reference number will be faxed back or will be issued when the phone notification is received. All phone notifications shall be followed by mailing the notification form to the district postmarked within 48 hours. The reference number will be retained as proof of compliance with this requirement.

Reference Number: Notification Date:

SECTION IV - HANDLING

16. If the OVA measurement is greater than 50 PPMV but less than 1000 PPMV

    A. The affected work area and load of soil shall be sprayed with water and/or approved vapor suppressant.

    B. Contaminated soil in stockpiles shall be covered with plastic sheeting which overlap a minimum of twenty-four inches and are secured so that no portion of the contaminated soil is exposed to the atmosphere. In the course of handling the stockpile, only the working face of the stockpile may be uncovered.

17. If the soil OVA measurement equals or is greater than 1,000 PPMV, notify the District immediately or within one hour of detection, and,

    A. The affected soil and Working area shall be immediately sprayed with water or an approved vapor suppressant, and either:

        i. The contaminated soil excavated shall be immediately placed in SCAQMD approved sealed containers equipped with vapor tight lids, or,

        ii. The soil shall be directly loaded in trucks, sprayed with additional water or approved vapor suppressants, covered, and transported immediately off site to an approved treatment facility, or,

    B. Handled by alternative storage methods with prior written approval from the SCAQMD.

18. All VOC-contaminated soil below 1000 PPMV shall be stockpiled, covered with plastic sheeting and stored separately from non-VOC-contaminated soil, or immediately transported to a treatment facility

SECTION V - STORAGE

19. A stockpile shall not contain more than 400 cubic yards of soil.

20. During excavation, the only exposed VOC contaminated soil shall be restricted to the immediate working area of the site or stockpile. All other portions of the stockpile shall be covered with plastic sheeting, with seams, which overlap a minimum of twenty-four inches and are secured with duct tape. Any exposed VOC-contaminated soil surfaces (work face) shall be kept moist with water or other approved suppressants at all times, and shall be re-covered during periods of inactivity longer than one (1) hour. At the end of each working day, all stockpiles shall be completely covered and securely anchored to prevent any exposure of soil to the atmosphere.

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21. Once covered with plastic sheeting, stockpiles shall remain undisturbed until removed from site.

22. Daily inspections shall be conducted of all covered VOC-contaminated stockpiles to ensure the integrity of the plastic cover. Such inspections shall include a visual inspection of all seams and plastic cover surfaces. Any holes, tears or any other potential sources of fugitive VOC emissions shall be repaired immediately. Daily records shall be maintained to ensure compliance with this condition.

SECTION VI - SOIL REMOVAL AND DISPOSAL

23. All excavated VOC-contaminated soil shall be removed from the site within thirty (30) days of its excavation.

24. All VOC-contaminated soil removed from the site shall comply with the following:

    A. Be transported to an approved treatment/disposal facility. It shall be the responsibility of the plan holder to ensure that the receiving treatment/disposal facility has received approval from the appropriate environmental oversight agencies to handle and treat VOC contaminated soils.

    B. Prior to covering/tarping, loaded contaminated soil shall be treated by spraying with water or dust suppressants.

    C. The truck or trailer shall be completely covered/tarped prior to leaving the site to prevent particulate emissions to the atmosphere.

    D. When loading is completed and during transportation, no excavated material shall extend above the sides or rear of the truck or trailer.

    E. The exterior of the trucks (including the tires) shall be cleaned off prior to the trucks leaving the excavation site.

SECTION VII - RECORDS AND REPORTING

25. A written report shall be provided to the SCAQMD within 30 days of initial detection of contaminated soil, which includes the following information:

    A. The status of the excavation pit, and any VOC contaminated soil remaining on site.

    B. A brief summary indicating if additional clean up efforts are necessary, the additional quantity of VOC contaminated soils to be excavated and the projected schedule of the excavation.

26. Records of disposal shall be maintained for all VOC-contaminated soil removed from this site. Such records shall be clearly labeled SCAQMD RULE 1166-VOC CONTAMINATED SOIL and shall include the identification and the location of, 1) the generator, 2) transporter and 3) receiving facility. In addition, such records shall be signed and dated by each of the above parties indicating receipt or relinquishment of the VOC-contaminated soil at the time custody is transferred.

27. Records of disposal of VOC-contaminated soil shall be maintained on site during the excavation and later maintained for a period of two (2) years. The records shall be made available to SCAQMD personnel upon request.

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28. Within thirty (30) days after the excavation at the site is completed, the written records under conditions no. 14, 22, and 27 shall be submitted to the SCAQMD at the following address:

South Coast Air Quality Mgmt District

Engineering & Compliance division

Toxics & Waste management unit

(Rule 1166 Compliance)

21865 E. Copley Dr.

Diamond Bar, CA. 91765-4182

29. Once issued, this plan is subject to further review by the SCAQMD and may be revoked if excavation activities are found in violation of plan conditions or SCAQMD's Rules and Regulations. Failure to comply with one or more of the conditions contained within this plan constitutes a violation of Rules 221 and 1166.

NOTICE

This plan does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This plan cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

A copy of this plan shall be displayed in the vicinity of the equipment subject to this plan.

Executive Officer

Dorris M. Bailey

By Dorris M. Bailey/MH13
7/16/2015

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ATTACHMENT SECTION

VERIFICATION AND SIGNATURE

THIS PLAN IS NOT VALID UNTIL ALL PARTIES HAVE REVIEWED AND SIGNED THE VERIFICATION STATEMENT BELOW.

Site Name		Type of Business	
Address	City		Zip
Responsible Party (Owner/Operator)		Phone	
Address	City		Zip

I CERTIFY THAT I HAVE REVIEWED AND UNDERSTAND THE CONDITIONS CONTAINED WITHIN THIS PLAN. IN SIGNING BELOW, I ACKNOWLEDGE THAT UNDER THE PROVISIONS OF RULE 1166, I CAN BE HELD RESPONSIBLE FOR THE REQUIREMENTS SET FORTH IN THIS PLAN.

Responsible Party	Responsible Party Signature	Date Signed
General Contractor	General Contractor Signature	Date Signed
Excavation Contractor	Excavation Contractor Signature	Date Signed
Environmental Consultant	Environmental Consultant Signature	Date Signed

DEFINITIONS

Excavation	Is the process of digging out and removing materials including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.
Organic Vapor Analyzer (OVA)	For the purposes of this plan, an OVA is an hydrocarbon monitor utilizing flame ionization, photo ionization or other analytical methods complying with 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS. The monitor shall be capable of being calibrated using hexane at a range of 0 parts per million by volume (PPMV) to 50 PPMV, and at a detection range of at least 30 PPMV to 1100 PPMV
Responsible Party	For the purposes of this plan, Responsible Party is the party financially responsible for initiating the excavation. This may include the property owner or the tank operator. This excludes contractors working for the property owner or operator, and any other party that lacks the direct authority to immediately treat all VOC contaminated soils generated at the excavation site.
VOC Contaminated Soil	Is soil that registers a concentration of 50 PPM or greater of volatile organic compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.
Volatile Organic Compound (VOC)	Is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates,

ammonium carbonate, and exempt compounds. Exempt compounds areas defined in Rule 102 – Definitions of Terms.

Once issued, this plan is subject to further review by the SCAQMD and may be revoked if excavation activities are found in violation of plan conditions or SCAQMD's Rules and Regulations. Failure to comply with one or more of the conditions contained within this plan constitutes a violation of Rules 221 and 1166.

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved Rule 1166 Contaminated Soil Mitigation Plan.

Questions regarding this plan should be directed to Larry Israel at (909) 396-2370.

Rule 1166 Soil Monitoring Records

Company Name Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA, 92618-5302	**Facility/Site Information**
Reference No(s).	

Plan #: 576791 **I.D.#: 142207**

Monitor Information	**Calibration Data**	**Monitoring Personnel**	**Excavation Summary** (Upon completion of each page)	
Brand:	Gas:	Name:	Total Cubic Yds (This page)	
Model:	Date	Company:	Total Cubic Yds (To date)	
Type	By	Phone:	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE:_____ DATE:_____

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765
1-800-CUT-SMOG www.aqmd.gov

IMPORTANT NOTICE
Rules 203, 1149 and 1166 Fees

TO COMPANIES AND CONTRACTORS THAT:

Operate portable soil/vapor extraction units at a location for 5 days or more (Rule 203)
Degas storage tanks known/suspected to contain Volatile Organic Compounds (VOC) (Rule 1149)
Remove tanks or transfer piping known/suspected to contain VOC (Rule 1166)
Handle, excavate, grade, monitor or treat soil known/suspected to contain VOC (Rule 1166)

SCAQMD Regulation III - Fee amendments for the Fiscal Years notification fee are as shown below. All required notifications for soil vapor extraction projects, tank degassing projects, and excavation of VOC soil projects, are subject to the new fee per Rule 301*(x)*. See fee schedule below:

Fiscal Year	Notification Fee*
2014-2015	$57.18
2015-2016	$57.98

The fee is per notification and an additional service charge fee of $25.00 may apply for any returned check per Rule 313(i).

Initial notifications must be faxed to 909-396-3342 and the original notification and fee must be postmarked within 48 hours of the fax time.

SCAQMDrecommends mailing your notification to save time, money, reduce traffic, conserve energy use and avoid air pollution. ***For your convenience please mail all notifications and fees to the following mailing address:***

SCAQMD R203/1149/1166 Notifications,
FILE # 55641,
Los Angeles, CA 90074-5641

Notifications should be completed, signed, mailed and the fee paid by the contractor performing the project. Notifications submitted without a fee are deemed incomplete and they will be returned to sender and referred to the Air Toxics Compliance Unit.

Rules 203, 1149 and 1166 notification forms, instructions, and information can be obtained from the SCAQMD web site at http://www.aqmd.gov

The forms are located at our home page, click on **Business / Compliance Program / Recordkeeping and Reporting Forms or the Rule link below.**

203 Soil Vapor Extraction (SVE) Notification Form
1166 VOC Emissions From Soil Excavation Notification Form
1149 Storage Tank Degassing Notification Form

For any Rule 203/1149/1166 questions call the above Rules Hot Line at (909) 396-2326.

*NOTE: Rule 304(e) requires an owner operator to pay for analysis of SCAQMD field samples showing non compliance. Please consult the current Rule 301 for the correct Notification Fee prior to sending the payment.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SVE Operation (R203) or Rule 1166 NOTIFICATION FORM

Use this form to notify of operation of a Soil Vapor Extraction unit (SVE); or prior to Excavating, Handling, Monitoring, Treating known or suspect Volatile Organic Compounds (VOC) contaminated soil per R1166. See instructions on the back of this form. For questions check our website at www.aqmd.gov or call the Hotline at (909) 396-2326.

FAX this form to 909-396-3342 and within 48 hours of the fax, MAIL the original form and fee to:

SCAQMD - 1166/203 Notifications, File # 55641, Los Angeles, CA 90074-5641

This form will be faxed back to you with a **REFERENCE** number if you provide a **FAXBACK** # here:_____

AQMD USE ONLY	RECEIVED BY		POSTMARK		REFERENCE #
COMPLETED BY			Company		Phone #
Date	Check #		Amount		Project #
NOTIFICATION TYPE (check one only)	Original (Initial) ☐		Revision (prior reference #) ☐		Cancellation (prior reference #) ☐
PROJECT TYPE (check one only)	[1] Soil Vapor Extraction (SVE) ☐	[2] R1166 Treating Contaminated Soil ☐	[2] R1166 Excavation of VOC Soil/Tank ☐	[2] R1166 Reporting > 50 ppm VOC Soil ☐	[2] R1166 Reporting > 1000 ppm VOC Soil ☐
[1] SVE Permit issued to (name):				[1] SVE Permit Number:	
[1] SVE Distance to nearest sensitive receptor in feet (see your permit condition requirements):					
[2] R1166 Mitigation Plan issued to (name):				[2] R1166 Plan Number:	
[2] R1166 - Date & time of VOC > 50 or 1000 ppm exceedance:				Highest VOC reading in ppm:	
PROJECT DATES	START		END	WORK SHIFT day ☐	swing ☐ night ☐
SITE CONTRACTOR INFORMATION	AQMD ID #		CSLB License #		Phone #
Name			Address		
City		Zip	Site supv name & phone #		
SITE INFORMATION	Site Name			Site AQMD ID #	
Site Address				Cross Street	
Site City		Zip	Site contact name & phone #		

TANK INFORMATION	# OF TANKS	EACH	CAPACITY (gal)	MATERIAL STORED IN TANK	ABOVE GROUND? (Y/N)
		@			
		@			
Example	*3 tanks*	@	*10,000*	*Gasoline*	*no*

INFORMATION CERTIFICATION	I certify that the above information is complete and accurate		
Company Name	Print Name	Signature	Date
COMMENTS			

Revised 01/20/2011

Page 1 of 2

Print Reset

Rule 203 and Rule 1166 Form Notification Instructions

Use this form to notify of operation of a Soil Vapor Extraction unit (SVE) at any site for more than 5 days per permit condition (R203); or for notifying about R1166 projects prior to excavating soil that is known or suspected to contain Volatile Organic Compounds (VOC), VOC tank excavation, discovering the presence of > 50 ppm and 1000 ppm VOC contaminated soil during soil excavation, or to notify of onsite VOC contaminated soil mitigation or treating.
For questions check our website at **www.aqmd.gov** or call the Hotline at **(909) 396-2326**

NOTIFICATION FEES: Per Rule 301(x) any person required to submit a notification per Rule 1166 projects or Rule 203 - Soil Vapor Extraction projects must pay a notification fee per notification.

FAX **all notifications to (909) 396-3342 and then *MAIL* the form and fee within 48 hours of fax to:**

SCAQMD Rule 1166 / 203 Notifications, File # 55641, Los Angeles, CA 90074-5641

Notifications must include the following *MANDATORY* information:

Faxback # - Provide your fax # at the top of the Notification Form if you want a **Reference #** faxed back to you.

Notification Type - *CIRCLE the type of Notification.* **Original** is for new or initial Notifications. **Revisions** are for updating information on notifications in which the project End Date has not expired. Provide the most recent prior Reference # issued for **Revisions** or **Cancellations**.

Project Type - *CIRCLE the type of work* you are submitting a notification for. A separate notification and fee is required for each type of work selected.

Mitigation Plan/Permit - Each Project Type requires a valid R1166 Mitigation Plan *or* SVE Permit # *(important)*.

Site Contractor Information - Provide the information for the actual contractor ***doing the work***. The AQMD ID #, also known as Company or Facility ID #, can be found on the contractor's AQMD Mitigation Plan, Permits or invoices.

Site Information - Provide the site name and complete address. Include the street number and name, city, zip code, and nearest cross street. Give more detailed directions for site(s) difficult to locate.

Project Dates - Provide the project Start and End Dates. Any changes will require a Revision notification.

Tank Information - For R1166 tank excavation specify the tank capacity, the VOC material stored in the tank, and if the tank is above ground (a/g) or underground (u/g).

Information Certification - The notification must be signed and dated by the contractor doing the work or authorized representative to confirm that the information provided is complete and accurate.

SOIL/TANK EXCAVATION NOTIFICATION Rule 1166(c)(1)(B) **Notify 24 hours prior of intent to *Excavate* known** or suspected VOC storage and/or transfer equipment (includes diesel and waste oil tanks); or ***handling*** known or suspected VOC contaminated soil. **NOTE:** Soil excavation > 5,000 cubic yards may require a R403 Fugitive Dust Plan.

DETECTING/FINDING VOC SOIL NOTIFICATION - Rule 1166(c)(1)(D)(ii) **Notify of finding VOC contaminated soil**

- within 1 hour of detecting VOC greater than 1000 ppm*
- within 24 hours of detecting VOC greater than 50 ppm
- within 1 hour of an excavation due to a breakdown requiring a Rule 430 notification to SCAQMD

EMERGENCY NOTIFICATION Rule 1166(c)(1)(B) **Notify prior to start work of any incident declared an emergency by** an authorized agency requiring immediate tank removal/repairs or excavating/handling known or suspected VOC soil:

- Call 1-800-CUT-SMOG prior to excavating or fax the emergency notification to 909-396-3342 and
- Mail the notification within 48 hours after the excavation including the agency Order or Declaration.

SOIL VAPOR EXTRACTION NOTIFICATION (SVE - Rule 203 *) **Notify upon the 5th day after operating at a new site:** Notifying of ***start-up*** or ***testing*** of operation of portable Soil Vapor Extraction equipment lasting 5 days or more. Provide the distance in feet to the nearest sensitive receptor *if* the site is located less than ¼ mile from any Long-Term Health Care Facility, Rehabilitation Center, Convalescent Center, Retirement Home, Residence, School, Playground, Child Care Center or Athletic Facility (* *See your SVE permit condition requirements*).

MITIGATION/TREATING VOC SOIL NOTIFICATION (Rule 203 *) **Notify per Permit condition requirements when:** Notifying of on-site ***mitigation*** or ***treating*** of VOC contaminated soil (* *See your Permit condition requirements*).

Appendix C

SCAQMD Rule 403

AVOCET
ENVIRONMENTAL, INC.

(Adopted May 7, 1976) (Amended November 6, 1992)
(Amended July 9, 1993) (Amended February 14, 1997)
(Amended December 11, 1998)(Amended April 2, 2004)
(Amended June 3, 2005)

RULE 403. FUGITIVE DUST

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

(1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.

(2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.

(3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.

(4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.

(5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

(6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

(7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.

(8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

(9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.

(10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.

(11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.

(12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.

(13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

(14) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:

(A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;

(B) been paved or otherwise covered by a permanent structure; or

(C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

(15) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

(16) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.

(17) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.

(18) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.

(19) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.

(20) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.

(21) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

meters (5,000 cubic yards) or more three times during the most recent 365-day period.

(22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.

(23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.

(24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.

(25) PM_{10} means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.

(26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.

(27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.

(28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.

(29) SIMULTANEOUS SAMPLING means the operation of two PM_{10} samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.

(30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

(31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.

(32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.

(34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.

(35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.

(37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.

(d) Requirements

(1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

(A) the dust remains visible in the atmosphere beyond the property line of the emission source; or

(B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.

(2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.

(3) No person shall cause or allow PM_{10} levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM_{10} monitoring. If sampling is conducted, samplers shall be:

(A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM_{10}.

(B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.

(4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.

(5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.

(A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

(B) Pave the surface extending at least 100 feet and at least 20 feet wide.

(C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).

(6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.

(e) Additional Requirements for Large Operations

(1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:

(A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;

(B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;

(C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

(D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;

(E) identify a dust control supervisor that:

(i) is employed by or contracted with the property owner or developer;

(ii) is on the site or available on-site within 30 minutes during working hours;

(iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;

(iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and

(F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).

(2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

(f) Compliance Schedule

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

(A) Dairy farms.

(B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.

(C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.

(D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.

(G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.

(H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.

(I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.

(J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:

(i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and

(ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.

(K) sandblasting operations.

(2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:

(A) When wind gusts exceed 25 miles per hour, provided that:

(i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;

(ii) records are maintained in accordance with subparagraph (e)(1)(C).

(B) To unpaved roads, provided such roads:

(i) are used solely for the maintenance of wind-generating equipment; or

(ii) are unpaved public alleys as defined in Rule 1186; or

(iii) are service roads that meet all of the following criteria:

(a) are less than 50 feet in width at all points along the road;

(b) are within 25 feet of the property line; and

(c) have a traffic volume less than 20 vehicle-trips per day.

(C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.

(3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.

(4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:

(A) Blasting operations which have been permitted by the California Division of Industrial Safety; and

(B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.

(5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

(6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.

(7) The provisions of subdivision (e) shall not apply to:

(A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.

(B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.

(C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.

(8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM_{10} pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to reduce visible dust plumes
Landscaping	10-1 Stabilize soils, materials, slopes	✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	✓ Dedicate water truck or high capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure		Guidance
Unpaved roads/parking lots	19-1	Stabilize soils to meet the applicable performance standards; and	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
	19-2	Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	
Vacant land	20-1	In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

Table 2
DUST CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Earth-moving (except construction cutting and filling areas, and mining operations)	(1a)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR
	(1a-1)	For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.
Earth-moving: Construction fill areas:	(1b)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Earth-moving: Construction cut areas and mining operations:	(1c)	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	(2a/b)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c)	Apply chemical stabilizers within five working days of grading completion; OR
	(2d)	Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	(3a)	Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR
	(3b)	Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR
	(3c)	Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR
	(3d)	Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Unpaved Roads	(4a)	Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR
	(4b)	Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR
	(4c)	Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	(5a)	Apply chemical stabilizers; OR
	(5b)	Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR
	(5c)	Install temporary coverings; OR
	(5d)	Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
All Categories	(6a)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

TABLE 3
CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY	CONTROL MEASURES
Earth-moving	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
Open storage piles	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
Paved road track-out	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

Table 4
(Conservation Management Practices for Confined Animal Facilities)

SOURCE CATEGORY	CONSERVATION MANAGEMENT PRACTICES
Manure Handling **(Only applicable to Commercial Poultry Ranches)**	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
Feedstock Handling	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
Disturbed Surfaces	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
Unpaved Roads	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
Equipment Parking Areas	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).

Appendix D

Example Field Forms

AVOCET
ENVIRONMENTAL, INC.

Air Monitoring Record

Project No. _____

Activity _____

SITE INFORMATION:

Owner _____

Address _____

City _____

Zip Code _____

Date of Excavation _____

MONITORING INFORMATION:

Company Avocet Environmental, Inc.

Name of Person _____

Monitor Mfg. _____

Model No. _____

Calibration Gas _____

Time	VOC Concentration (ppmv)		Comments
	Ground Surface	Breathing Zone	

AVOCET ENVIRONMENTAL, INC.

STOCKPILE INSPECTION RECORD
SCAQMD RULE 1166 VOC-CONTAMINATED SOIL

SITE NAME: _____
ADDRESS: _____
CITY: _____

Date	Inspector	Nature of Cover	Condition of Cover	Seams Overlap and Secure?	Conditon of Seams	Comments

Inspector: Please visually inspect all seams and plastic cover surfaces. Note any holes, tears or any other potential sources of fugitive emissions. Note any repairs or other mitigation measures.

AVOCET ENVIRONMENTAL, INC.